



# **Department of Psychiatry**

## **ANNUAL REPORT 2010-2011**



**Department of Psychiatry Annual Report  
Schulich School of Medicine & Dentistry  
The University of Western Ontario**

**Annual Report  
July 1, 2010 – June 30, 2011**

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## **Message from the Chair/Chief**



"As 14 years of restructuring of our facilities comes to fruition and with a robust academic department, we are poised to move from strength to strength."

Dr. Sandra Fisman  
Chair/Chief Department of  
Psychiatry, Schulich School of  
Medicine & Dentistry

The past year has been one of endings and new beginnings. As the end of my second term drew to a close, the search for a successor attracted a slate of strong candidates and from these, Dr. Paul Links was selected as my replacement. Dr. Links has been the Arthur Rotenberg Chair in Suicide Studies at the University of Toronto, holding this position for the past 15 years. We welcome him to London and look forward to his thoughtful leadership.

We were finally able to leave South Street Hospital at London Health Sciences Centre and to move to our new acute care psychiatry home at Victoria Hospital. Child and Adolescent Psychiatry were united in their new home on the 8<sup>th</sup> Floor of Victoria Hospital in October 2010 and the Adult Psychiatry Program consolidated in April 2011 on the 7<sup>th</sup> and 8<sup>th</sup> Floors with our beautiful Ambulatory Care Centre on the 2<sup>nd</sup> floor at street level.

We are thrilled to be in our well-designed, bright and new clinical facilities. The final redevelopment for Mental Health will be with Milestone 2, Phase 3 at University Hospital when Neuropsychiatry and Consultation Liaison will move into their new homes. It took the diligence of so many people and partnerships to make this all happen, including, particularly, our facilities and planning department and I thank them all. The people we care for are now accommodated in healing surroundings.

In 2013, the new Regional Mental Health Care Forensic facility in St. Thomas will be complete and the Parkwood site will be ready the following year. Building of these facilities together with the new facilities at Grand River Hospital in Kitchener-Waterloo, and at Windsor Regional Hospital, for Essex and Kent counties and the divestment of beds and services to these regions, allows care closer to home where possible. In the spring of 2011, 50 beds moved to Grand River Hospital in Kitchener together with the Waterloo ACT Team and in the late fall of 2011, 59 beds and the Windsor Essex and Chatham-Kent ACT teams will move to Windsor. The new facilities at the St Thomas and Parkwood sites are bright with a focus on green technology and have been designed with a recovery model of care in mind.

Our academic mission is strong. We take pride in the tremendous growth of research in the Department. This year's research report attests to this. Our education programs,

including Undergraduate, Postgraduate, and Continuing Professional Development continue to grow and strengthen. With the need for psychiatrists identified as second highest of all specialties this past year by the Conference Board of Canada, we are obligated to train more psychiatrists to meet population needs. We have also to train psychiatrists who embrace interprofessional practice and who have a readiness to participate in health care transformation and life-long learning. We must also be mindful that we can only increase the number of practicing psychiatrists through engagement of our medical students in our specialty.

We have continued to attract quality academic psychiatrists to our department with the benefit of new sources by way of funding from the Ministry of Health and Long Term Care that supports indirect team based clinical care and the Alternative Funding Plan, supporting academic activity. These resources have allowed our clinical academic faculty to more than double over 5 years, our basic science faculty to double and our residency program to triple in size. Many of our residents have chosen to remain with us and contribute to a strong cohort of junior faculty. Community partnerships have strengthened and we are poised to be active participants in an Academic Health Science Network envisioned by Schulich School of Medicine & Dentistry and the London hospitals. We have two faculty who will hold significant positions at Schulich, Dr Jatinder Takhar, in her second term as Associate Dean of Continuing Professional Development, and Dr Margaret Steele who will take up the position of Vice Dean, Faculty and Hospital Affairs.

I would like to take this opportunity to thank the many people with whom I have worked and collaborated, in our department, across clinical and basic science departments at Schulich, with other faculties at Western and in the academic and service communities more broadly for their collegiality and support over these many years of growth, development and restructuring.

Finally let me turn to our Psychiatry Administrative Group who includes the following staff for the 2010/2011 year:

Deborah Lucas	-	Administrative Officer
Irene May	-	Administrative Assistant Chair/Chief
Bonnie Ideson	-	Human Resource Consultant
Bernice James	-	Finance
Heather Deisley	-	Administrative Assistant, Undergraduate Education
Eva Adams	-	Administrative Assistant, Postgraduate Education
Glenda Shilleto	-	Administrative Assistant, CME/CPD
Debra Martin	-	Administrative Assistant, Child & Adolescent and Geriatric Psychiatry Divisions
Hanna Siemiarczuk	-	Administrator, ECP, SWOMEN, Division of Social & Rural Psychiatry
Patti Giles	-	Administrative Assistant, ECP, SWOMEN, Division of Social & Rural Psychiatry
Maria Gitta	-	Administrator, Developmental Disabilities Division
Colleen Chrysoulakis	-	Administrative Assistant, Developmental Disabilities Division
Suzena Mendes	-	Administrative Assistant, AFP, Forensic Psychiatry Division and General Department Support
Cathy Kramer	-	Administrative Assistant, Chair/Chief, General Adult Psychiatry
Tracey Jansen	-	Administrative Assistant, Site Chief, RMHC
Tracy Henebry	-	Administrative Assistant, Chair/Chief, Child & Adolescent Psychiatry

The administrative team in our department is at the heart of all that we have accomplished academically. This team has grown exponentially in parallel with the growth of the academic department. Under the leadership of Ms. Deborah Lucas, administrative processes have been improved and streamlined. Considerable progress has been made in financial processes, as well as the Merit Based Remuneration system and the Acuity Star system now well established in our evaluation of academic deliverables. I thank each and every member of this team and recognize their willingness to go beyond the call of duty in their support of our fine department.

## Division Reports



"It has been a pleasure and honour to serve as the Chair of the Division of Child and Adolescent Psychiatry – the success of the division has been a result of the continued and ongoing efforts of its members."

Dr. Margaret Steele,  
Chair, Division of Child and Adolescent  
Psychiatry

As this is the last annual report that I will write for the **Division of Child and Adolescent Psychiatry**, I would like to take this opportunity to thank all the members of the Division of Child and Adolescent Psychiatry (DCAP) for their commitment and dedication to child and adolescent mental health in the Southwestern Ontario region. It has been a pleasure and honor to serve as the Chair of the DCAP, Department of Psychiatry, Schulich School of Medicine and Dentistry (SSMD) at the University of Western Ontario (UWO) since 2001. The success of the DCAP has been a result of the continued ongoing efforts of the members of the DCAP and is demonstrated by the following: 1) increasing numbers of medical students from the SSMD, UWO and other universities requesting electives in child and adolescent psychiatry; 2) establishment of a national reputation for delivery of excellent postgraduate education in child and adolescent psychiatry; 3) significant research accomplishments by medical students, residents and faculty who have completed projects, secured grants, presented their research at local and national conferences, published peer-reviewed papers and won awards; 4) increasing Continuing Medical Education (CME) presentations by DCAP members regionally, provincially, nationally and internationally; 5) recruitment of several academic child and adolescent psychiatrists, from our residency program, other provinces and the United States; 6) development of new clinical services that integrate education and research; 7) and strengthened relationships between numerous child and adolescent mental health programs.

I would also like to thank the members of the Advisory Committee Dr. Jeff Carter, Dr. Bruce Connell, Dr. Barrie Evans, Dr. Patricia Hall, Dr. Ben Loveday, Dr. Naveed Rizvi, Ms. Susan Ralyea and Dr. Cheryl Willsie. Special thanks to Debra Martin and Tracy Henebry who have provided exceptional administrative support to the DCAP and Suzy Mendes who has assisted with the CME events.

I would just like to highlight the activities in the past year. With respect to undergraduate education, a working group with representatives from each teaching site (London Health Sciences Centre (LHSC), Vanier Children's Services, CPRI, St. Joseph's Health Care-Regional Mental Health Care- London (SJHC-RMHC-L), and Windsor) was developed under the leadership of Dr. Ben Loveday to develop a 2-week selective experiences in child and adolescent psychiatry during the Psychiatry Clerkship. This working group established the principles that individual sites will use to develop equivalent experiences for medical students. Medical students choosing a 2-week-long selective in Child and

Adolescent Psychiatry will be provided with exposure to interprofessional care for young people and families in a wide variety of settings. Since the introduction of selectives began at the beginning of the 2011\12 academic year we will monitor the number of students choosing child and adolescent psychiatry as a selective and how this change in curriculum is viewed by the students. In addition to the clerkship activities, I would like to thank Dr. Heidi Haensel who is the week captain for the child and adolescent psychiatry for the Medicine 5207 course.

At the postgraduate level there is tremendous activity as our Division gets ready to launch the new child and adolescent psychiatry residency program. The Postgraduate Education Working Group, under the leadership of Dr. Patricia Hall, has been formed and they worked hard on completing the application for subspecialty accreditation by the Royal College of Physicians and Surgeons of Canada. The working group consists of Dr. Sohail Makhdoom, Dr. Ben Loveday, Dr. Sarah Armstrong, Dr. Leanna Isserlin, Dr. Sandra Fisman, Dr. Cheryl Willsie and Dr. Patricia Hall. The plan for our Division is to start the residency program in child and adolescent psychiatry in 2011-2012. The working group has established some unique aspects to the curriculum such as a psychopharmacology experience with Jessica Stovel, pediatric pharmacist, and Joel Lamoure, pharmacist.

I would also like to thank Dr. Sarah Armstrong, who has begun a well received movies night for psychiatry residents to discuss various aspects of psychiatry, and Dr. Leanna Isserlin who co-leads the coordination for the Module series for general psychiatry residents. In addition, I would like to congratulate Dr. Leanna Isserlin for taking on the leadership of the Postgraduate Year One residents in psychiatry.

During the year 2010-2011, under the leadership of Dr. Naveed Rizvi, the Division of Child and Adolescent Psychiatry organized continuing medical education (CME) activities both at the Divisional and Departmental level. While the CME activities offered a wide range of learning opportunities, these were also focused on promoting inter-professional learning and highlighting the expertise of our own faculty members in different areas of clinical practices. The Division of Child and Adolescent Psychiatry CME events were well attended and well received by faculty members, allied health professionals, residents, medical and allied health profession students as well as community partners.



These CME events include the monthly child and adolescent psychiatry teaching rounds which are teleconferenced to several child and adolescent mental health programs and are extremely well received. The residents are to be congratulated for their excellent presentations. Our semi-annual meeting occurred on February 24, 2010. Dr. Patricia Hall presented her excellent Diploma Dissertation on "The Use of Selective Serotonin Reuptake Inhibitors and Atypical Antipsychotics in Children and Adolescents with Anorexia Nervosa and other Restrictive Eating Disorders: A Retrospective Chart Review". The Annual Conference of Division of Child and Adolescent Psychiatry on April 29, 2011 entitled "Eating Disorders in Children and Adolescents" was extremely well received by the attendees. This year we showcased local talent within the LHSC Child and Adolescent Mental Health Care Eating Disorders program (Dr. Leanna Isserlin, Dr. Liga Stare, Ms. Kathy Roberts, Dr. Debbie Vanderheyden, Ms. Kate McCreath, Ms. Vanessa Gilmor, and Ms. Nancy Hess) presenting in addition to the guest speaker Ms. Julie Gerber. In addition, the annual Department of Psychiatry CME on June 9, 2011 featured Dr. Alice Charach, child and adolescent psychiatrist from the Hospital for Sick Children, who spoke on "ADHD and Psychiatric Co-morbidity in Children - Long term Management and Outcomes". Dr. Joel Shapiro was the resident speaker. Our Annual Meeting of the Division of Child and Adolescent Psychiatry featured Dr. Sandra Fisman speaking on "Reflections on Generating Collaborative Relationships". The annual meeting was also an opportunity to thank Dr. Fisman for her support and leadership in the Department of Psychiatry over the past ten years.

With respect to research, the RAPP-TAPP program at Vanier for children under age twelve years at risk for illegal activities including firesetting was pleased to present a featured workshop at the Fifth Annual Northeast Juvenile Firesetting Conference in Boston in May, 2011. Vanier and CPRI are looking forward to the next phase of the Predicting and Understanding patterns of service utilization within children's mental health agencies, led by Dr. Graham Reid at the University of Western Ontario and Dr. Shannon Stewart at CPRI. The LHSC child and adolescent mental health care program has been examining substance use rates among the patients in the different program areas and found that 35% scored above the cut-off point on a substance use screener suggesting possible problematic use or abuse requiring further assessment. They are now examining strategies to refine assessment and treatment with these clients. LHSC has also had two recent publications. The first was co-authored by Division members Dr. Julie Eichstedt and Elizabeth Phoenix and others with respect to the effects of medication status on treatment response to a CBT group with anxiety in a community setting and published in the journal *Clinical Child Psychology and Psychiatry*. This study suggested that children on and off SSRI medication benefited similarly from participation in group CBT for anxiety. The second paper was published in *Behavior Therapy* and was entitled "Group Cognitive-Behavioral Therapy for Anxiety in a Clinic Setting" and Division authors included Dr. Julie Eichstedt, Elizabeth Phoenix, Dr. Richard Zayed and Sharon Brisebois. Results suggest that child involvement in group treatment just prior to the introduction of exposure and response prevention was an important predictor of outcomes, with higher involvement associated with greater reductions in anxiety symptoms. The study entitled "Child and Adolescent Mental Health: Needs and Interests among Family Physicians, General Practitioners and Paediatricians located in Rural and Remote Areas. A Canadian National Collaborative Study" has been completed and the Southwestern Ontario portion of the study has been funded by the Children's Health Foundation (CHF). The CHF has also agreed to fund a postdoctoral fellow who will start in January, 2012 to continue the second stage of the Canadian National Collaborative

Study to look at how best to change family physician's and pediatrician's practice in children's mental health.

The Western Hub of the Ontario Child and Youth Telepsychiatry Program continues to provide Telepsychiatry services to five designated sites and 3 satellite sites. During the year 2010-2011, The Western Hub completed 180 Clinical Consults, 9 Program Consults and 11 Education Sessions to our designated sites. Education sessions offered included Division of Child and Adolescent Psychiatry Resident Rounds, Journal Clubs, Diploma dissertation and Department of Psychiatry CME. At the provincial level, a three part series on Paediatric Bipolar Disorder (offered twice due to demand) was offered to 26 sites across the province. This series was a joint presentation between LHSC, CPRI Mood disorders program and The Western Hub. Moving forward the Western Hub is transitioning to OTN Video Conferencing. This transition is expected to improve quality of video conferencing as well and will help to expand services. The Western Hub will start providing program consultations and clinical consultations to Bluewater Youth Centre in 2011.

I would like to thank Dr. Sandra Fisman for her outstanding leadership of the Department of Psychiatry over the past 10 years and her ongoing commitment to the development and enhancement of academic endeavours within the Department. Dr. Fisman has also continued her clinical service in the area of adolescent psychiatry. I would like to also thank Dr. Sandra Fisman for agreeing to be the Interim Chair of the DCAP starting September 1, 2011.

Best wishes to all of the members of DCAP!



"There are very few academic programs in developmental disabilities in Canada and the Division of Developmental Disabilities at the University of Western Ontario has become a national leader in the field. "

Dr. Rob Nicolson,  
Chair, Developmental Disabilities  
Division

The **Developmental Disabilities Division** (DDD) was established within The University of Western Ontario's (UWO) Department of Psychiatry in 2003, with primary goals of attracting academic leadership in developmental or intellectual disabilities, to provide a "home" in order to develop and maintain a critical mass of individuals working within the field, and to facilitate the continued development of education and research in developmental disabilities under a single umbrella.



## DIVISION LEADERSHIP

Dr. Rob Nicolson is the Chair of the DDD. Regarding the division's educational goals, the responsibilities have been divided among a triumvirate, with Dr. Nicolson taking the undergraduate education lead, Dr. Jay Rao the postgraduate education lead and Dr. Greg Gillis the lead for community and continuing medical education.

Staff consists of Maria Gitta, Division Coordinator, and Colleen Chryssoulakis, Administrative.

An Advisory Board consists of members of community service agencies, college and university representatives, school board representatives, and representatives of the Ontario Ministry of Community and Social Services. The board meets twice a year and advises the leadership of the division on potential areas of relevance to the DDD. Dr. Sandra Fisman chairs this board.

In 2010, Dr. Greg Gillis, Family Physician, Schulich School of Medicine, and Dr. Robert Sandieson, Psychologist, Faculty of Education, UWO, were granted adjunct appointments with the DDD.

## EDUCATION

Education of physicians regarding developmental disabilities remains the division's greatest priority. We have continued to enhance the educational opportunities for physicians and allied professionals in developmental disabilities. The educational opportunities at all three levels (undergraduate and graduate medical trainees and continuing medical education) are unique across Canada and certainly places the DDD on the vanguard of medical education at a national level regarding developmental disabilities.

Dr. Nicolson and Dr. Sohail Makhdoom (at the Child and Parent Resource Institute) continue to provide a half-day of teaching and clinical experience in developmental disabilities for third year clinical clerks this year; an experience which has received positive feedback and which appears to be quite unique at a national level in terms of teaching in developmental disabilities. A lecture by Dr. Nicolson to second year medical students on developmental disabilities continues to be well-received. Drs. Nicolson and Rao also continue to teach elective students from UWO, Canadian and international universities.

In order to foster an interest in patients with developmental disabilities, the division offers the 'The Dr. Greta Toni Swart Essay Award in IDD' an essay award annually in the amount of \$500 to student in any year of the Doctor of Medicine (MD) program or a graduate medical program or a resident program at UWO who submits the best essay on developmental disabilities.

Drs. Nicolson and Rao provide lectures and seminars for psychiatry and family medicine residents. The number of psychiatry residents requesting rotations in developmental disabilities continues to increase, a strong indicator of the quality of the teaching provided and the increasing recognition of the importance of developmental disabilities in psychiatric practice. Additionally, pediatric residents are expected to spend several days seeing patients with developmental disabilities during their rotations at CPRI.

The DDD is responsible each September for the Department of Psychiatry Continuing Medical Education Rounds. In September of 2010, the guest speaker was Michael Aman, PhD, a Professor of Psychology and Psychiatry at Ohio State University (OSU) and Research Director of the OSU Nisonger Center University Center for Excellence in Developmental Disabilities Education, Research and Service's Unit on Pediatric Psychopharmacology, who presented on: "Psychopharmacological Treatment of Behaviour Problems in Children and Adolescents with Intellectual/Developmental Disabilities." Dr. Aman is co-developer of the Aberrant Behavior Checklist (ABC) and the Nisonger Child Behavior Rating Form (NCBRF). The ABC has been used extensively in pharmacological and other research in people with autism spectrum disorders and other developmental disabilities.

Additionally, the DDD organizes an annual continuing medical education day on developmental disabilities for practicing community psychiatrists, pediatricians, and family doctors, nurses and other health providers. On March 30, 2011 the following presentations were given: "Neuro-Psychiatric Aspects of Dual Diagnosis, Brain Development and Developmental Disabilities" by Dr. Rao; "General Medical Problems, Approaches to Comprehensive Assessments, and the Primary Health Care Guidelines" by Dr. Gillis; and "Assessments and Screening Instruments for Autistic Disorders" by Dr. Nicolson. As in previous years, the feedback by attendees was overwhelmingly positive. This annual refresher day in developmental disabilities is one – if not the only one -- of very few such events held for physicians nationally.

In addition, Drs. Nicolson, Rao, and Gillis are each involved in providing presentations to professional, community and advocacy groups, with the total audience for these presentations being well over 1,000 people once again during the past academic year. The DDD, in ongoing partnership with the UWO Autism Centre of Excellence (ACE), continues providing lectures for parents and community agencies on developmental disabilities. And over the last few years, we have arranged for some of the outside speakers to provide lectures to community members in addition to the academic lectures.

The DDD and ACE presented monthly education and service rounds at CPRI. These consist of a case presentation and discussion of research literature relevant to the case. Attendance has been good and the feedback has been positive. Presentations included: "Medication and Autism Spectrum Disorder" by Dr. Nicolson; "A Review of Social Stories for Social Intervention" by Ms. Joan Gardiner, Speech-Language Pathologist, Autism Spectrum Disorders Clinic, CPRI; "Literature Searches in Developmental Disabilities" Dr. Robert Sandieson; "Sensory Processing Subtypes in Autism: Association with Adaptive Behaviour" by Ms. Renee Ellis, Occupational Therapist, Autism Spectrum Disorders Clinic, CPRI; "Developmental Disability – Co-morbid Conditions and Treatment" by Dr. Sohail Makhdoom, Consultant Psychiatrist, Autism Spectrum Disorders Clinic, CPRI; "Treatment Engagement and Treatment Drop Out" by Dr. Nicolson; "Screening Measures for Autism Spectrum Disorders" by Dr. Louise LaRose, Psychologist, ASD Clinic, CPRI; and "Compliance and Social Communication in Autism" by Dr. Tammy Drain, Psychologist (Supervised Practice), Pryor, Linder & Associates/Thames Valley Children's Centre.

Maria Gitta and Dr. Greg Gillis continued their provincial involvement in the ongoing development of Primary Health Care Consensus Guidelines for Adults with IDD along

with educators from the other five provincial medical schools and other health educators. The guidelines are revised and were published in Canadian Family Physician as:

Sullivan, William F; Berg, Joseph M; Bradley, Elspeth; Cheetham, Tom; Denton, Richard; Heng, John; Hennen, Brian; Joyce, David; Kelly, Maureen; Korossy, Marika; Lunsky, Yona; McMillan, Shirley. "Primary care of adults with developmental disabilities: Canadian consensus guidelines." *Canadian Family Physician*. 2011 (May); 57(5): 541-553. <http://www.cfp.ca/cgi/content/abstract/57/5/541?etoc> The Tools which complement the Guidelines are accessible online from the Developmental Disabilities Primary Care Initiative's (DDPCI) webpage: <http://www.surreyplace.on.ca/Clinical-Programs/Medical-Services/Pages/PrimaryCare.aspx>.

The Division continues to clearly meet the goal of increased education in developmental disabilities for professionals and advocates, and this strength has been recognized by individuals and organizations nationally. Clearly, in the eight years since the inception of the Division, the DDD has become a national leader in education on developmental disabilities for physicians. In the coming year, we will continue to develop new avenues of medical education and make greater use of electronic media and the internet in order to expand our educational scope. As a step towards this goal, we continue to videotape the presentations by the invited speakers and put these videos on the website.

## RESEARCH

As education, research, and clinical service in developmental disabilities are all integrally related, with each informing the other, a strong academic and research focus for the DDD is essential. The bimonthly research rounds which were held in past years have been replaced by the monthly education and service rounds described above. Attendance at these newer rounds has been greater and has also had a greater diversity in terms of the professional background of the attendees. The emphasis on the relationship between research and clinical service has provided for better opportunities for discussion at each presentation. Importantly, students in a variety of medical and professional disciplines have been active participants in these rounds.

During the 2009-2010 academic year, the DDD established an annual research award to encourage and fund new research in developmental disabilities at UWO. The C. Kingsley Allison Award (named after the gentleman who donated the money) will be awarded annually for research on developmental disabilities undertaken at UWO. The funds for this were made available through an endowment of \$215,000. Mr. Allison was an executive with the O Pee Chee company in London with a personal interest in developmental disabilities. The awards were made available for the first time during the 2010-2011 academic year to: Dr. Sandieson for his research project titled: "Validating a new information retrieval system for accessing evidence-based knowledge on Developmental and Intellectual Disabilities in the health sciences" in the amount of \$5,860; and Dr. Gavin Price, Department of Psychology, for "Understanding Developmental Dyscalculia: The Neural Correlates of Calculation Learning" for \$6,275.

Melissa E Stachel was awarded the Dr. Benjamin Goldberg Research Award of the UWO Developmental Disabilities Division for 2011 for her project 'A qualitative, cross-national analysis of the perceptions and experiences of Somali health care professionals working with Somali children with autism spectrum disorders and their families' The Annual Dr. Benjamin Goldberg Research Award is intended to provide seed money in

grants of \$500 to \$3,000 to students registered as a student at a community college or university in Southwestern Ontario, who seek to gain a better understanding of the health and mental health conditions of people living with intellectual and developmental disabilities and/or conducting research of relevance to the field of intellectual and developmental disabilities, thereby, helping to improve the lives of individuals with this condition.

Additionally we awarded one time funding to Adrienne Elbert for her proposal on ATRX, an important regulator of brain development. Inherited mutations of the *ATRX* gene cause X-linked intellectual disabilities associated with a plethora of other developmental abnormalities (Gibbons and Higgs, 2000). The work is aimed at understanding the molecular and cellular roles of ATRX in the developing mouse brain, using genetically engineered mice that lack ATRX specifically in the brain. ATRX is a chromatin remodeling protein that is able to alter chromatin organization and structure. Adrienne hypothesizes that ATRX achieves this in part by dictating the binding of the CTCF insulator protein at specific genes. She proposes that the resulting changes in chromatin looping and architecture affect the expression of key genes important for normal cognition. She will investigate the genome-wide effects of ATRX loss on the binding of CTCF to its target sites. This will be done by chromatin immunoprecipitation (ChIP) of the CTCF protein followed by deep-sequencing technologies to identify genome-wide binding sites in control and ATRX-null brains. Loss of CTCF binding will be correlated to gene expression profiles to identify key affected target genes of in the brain.

The Department of Psychiatry Annual Report Research section lists research information on developmental disabilities and autism.

#### SUMMARY

Interest in developmental disabilities, both academically and educationally, continues to grow at The University of Western Ontario. There are very few academic programs in developmental disabilities in Canada, and the Division of Developmental Disabilities at UWO has become a national leader in the field. In partnership with the Autism Centre of Excellence at the University of Western Ontario (also part of the Department of Psychiatry), we expect to continue to enhance the visibility and importance of intellectual and developmental disabilities education and research at UWO and within Ontario and to solidify the role of the Division of Developmental Disabilities as a national leader in education and research.



"This has been a year of reflection and transition for the Division of Forensic Psychiatry. We look forward to a new academic vision for this division as we move into an era of subspecialty recognition by the Royal College for Forensic Psychiatry and the completion of a new facility in St Thomas by 2013 with a recovery model of care"

Dr. Jose Mejia  
Division Chair Forensic Psychiatry

Following the previous annual report and external review of the Department of Psychiatry in the spring of 2010 in anticipation of the selection of a new department chair for psychiatry, plans were made to invite an external review of the **Forensic Psychiatry Division**. Dr. Sandy Simpson, Head of Forensic Psychiatry at CAMH and head of the Mental Health and the Law program at University of Toronto conducted a very thorough review over two days during the month of May 2011. The most salient conclusions from the review are as follows:

- The Division of Forensic Psychiatry is an important component in the divisional structure of the Department of Psychiatry and central to the current mission of establishing a subspecialty program
- Dr. Simpson recommended the creation of a combined Clinical Leader and Head of Division to achieve harmonious functioning in the academic and clinical components of the program. Both of the current leaders (Dr. Jack Ellis, Physician Leader and Dr. Jose Mejia, academic chair) have agreed to step down and transition their functions into the new position, once a candidate is hired.
- In agreement with these plans a description of the role for this position was formulated and reviewed with a plan to post the position in the months of December, 2011 and January, 2012.
- A recommendation for the further development of community services coordination was made. Accordingly, a meeting of community services (St. Leonard's Society, CMHA, St. Joseph's Health Care and LHSC) took place on November the 21<sup>st</sup>. The parties present agreed that more work needs to be done in this area and that as an important piece of this work, the presence of a psychiatrist who can consult to community service providers is badly needed in the community.
- A series of 7 lectures for residents has been developed and scheduled and will be taught as of the beginning of 2012.
- A seminar series involving members of several programs and faculty (psychology, psychiatry, law, etc) was recommended. This would provide a forum for students and academics from related specialties and backgrounds to update and discuss issues of mutual interest and new discoveries in the field of mental health and the law. Drs. Peter Hoaken, David Lemarquand, Derek Mitchell and the writer have discussed this issue and will meet in the New Year in order to plan and establish the said series that will start during the month of March 2012.

Research continues as reported 8 months ago, an ongoing project by Drs. Finger, Mitchell and Mejia, exploring neurological reward systems in psychopathy.

Clinical services continue to meet the provincial mandate for Regional Mental Health Care-St Thomas and the very successful weekly Mental Health and the Law Clinic set up a year ago at London Health Sciences Centre continues to provide accessible and valuable service to those individuals with “soft” forensic issues in need of mental health care.

The next step will be the recruitment of the new leader for the Division of Forensic Psychiatry and the clinical program at RMHC-St Thomas and a transition to the new leader.. A meeting with the advisory board will be scheduled in the New Year in order to introduce the new leader, once selected, and plan the future direction of our Division.

Meanwhile, it is the wish of the writer to express utmost gratitude to all those who have, one way or the other, supported the work of our Division and to thank everybody as well, for the realization of a dream for better services, knowledge and for the scientific and evidence based application of clinical principles to those in need of clinical mental health services who find themselves in trouble with the law.



“The Division of General Adult Psychiatry is the academic home of acute care psychiatry, one of the largest divisions in the department and its influence extends beyond just producing competent psychiatrists.”

Dr. Jeffrey Reiss,  
Chair, Division of General Adult  
Psychiatry

The Division of **General Adult Psychiatry** (DGAP), one of the largest in the department, is primarily based out of the London Health Sciences Centre, and is the academic home of acute care psychiatry, spanning the continuum of mental healthcare described further in this report.

Entrusted to the division is the responsibility to provide the core educational experiences required by medical students, psychiatry residents, as well as those from family medicine and other specialties, in addition to trainees in related health disciplines. As such, the division’s influence extends beyond just producing competent psychiatric generalists, notwithstanding the importance of the latter.

We have had another very productive academic year. Much of the department’s undergraduate, postgraduate, and continuing medical education/continuing professional development are delivered by DGAP faculty. The nationally acclaimed UWO Psychiatry



Exam Preparation Course, organized by our Dr. Praful Chandarana, and taught by many divisional members, continues to grow in popularity on an annual basis. Several DGAP members were also significantly involved with the planning of the successful Mood Disorders Symposium, held at the Lamplighter Inn. Similarly, our research productivity has increased as can be attested to in the research section of this annual report.

Following the successful implementation of the new PGY-2 curriculum in London, which included the new educational rounds incorporated this year, we are working with local lead physicians Drs. Tam Doey and Ranjith Chandrasena, with the intention to broaden available training sites for the PGY-2 year, as well as all General Psychiatry and ultimately full Psychiatry Residency training to the Windsor and SWOMEN campus locations.

Certainly one of our most significant events this academic year was the Milestone 2 (M2P2) transfer, which occurred in April 2010. This involved the winding down of our site at South Street Hospital with relocation to the Victoria Hospital Campus. Now we can take advantage of the greater geographic connectivity with other medical specialists, as well as with our own colleagues in Child & Adolescent Psychiatry. This should lead to greater collaborative education and research opportunities, as well as new partnerships in clinical service development; Psychosomatic Medicine and enhanced Transitional Youth Services being two such examples.

This upcoming academic year we look forward to further new clinical service developments including but not limited to: an adult Eating Disorders program, as well as utilizing enhanced psychiatric and non-medical staffing to expand concurrent disorder management, and developing transitional adult-psychogeriatric programming.

Building on existing research strengths in clinical outcomes, program evaluation, smart health technologies, educational scholarship, and neuroimaging, the DGAP will endeavour to develop new clinical research programs in Psychopharmacology, and Neuropsychiatry/Psychosomatic Medicine, collaborating with other Divisions and Departments/Faculties.

The following is an overview of the division's varied programs along with individual goals for the next academic year written in conjunction with the respective medical leaders:

### **London Health Sciences Centre - Based Services**

#### **Centralized Emergency Psychiatry Service (CEPS)**

Emergency assessments are conducted in the emergency room by a team consisting of psychiatrists, residents, and students, with nurse case managers. We work in collaboration with community partners including mental health agencies and family physicians in an effort to best serve our patients. Service Leader, Dr. Dan Lefcoe states, "The Emergency Room continues to be a central focus for the hospital. In 2010-2011, MH Access and Flow, P4R and other initiatives seek to identify and streamline consultative practices there. These projects continue through 2011."

Dr. Viraj Mehta joined the physician roster in 2010, bringing additional expertise and energy to the service.

### Consultation/Liaison Service

Consultation-Liaison is a specialized service that deals with the overlap of physical health and mental health care issues. The primary mandate is to provide timely psychiatric consultation to adult patients admitted to medical/surgical units at the University Hospital and Victoria Hospital sites. Accomplishments in the last year include successful: expansion of the service to consulting on admitted medical/surgical patients bedded in the UH ER, MHA education to non-psychiatric colleagues, enhanced educational opportunities for off-service residents and elective medical students through rotation development. Goals for the upcoming year include development of a Psychosomatic Medicine CME module, working further with our Critical Care Colleagues at both an academic and clinical level to enhance the early recognition and management of ICU delirium, ongoing service focus on education of psychiatric residents, off-service residents, medical students, and our medical colleagues.

### First Episode Mood and Anxiety Program (FEMAP)

FEMAP provides both clinical treatment and clinical research for youth and young adults between the ages of 16 and 30 afflicted with the recent onset of dysfunction or distress due to depression and/or anxiety.

This past year FEMAP has been successful in acquiring private donations to fund the creation of a Resource Room to provide access to comprehensive, up-to-date mental health/addiction information for youth and their families. It will create an environment where youth and families can learn from video, text and audio about other peoples' experiences with mental health and addiction.

Ongoing research this year included studies on the functional brain imaging of cognitively intact youth who engage in non-suicidal self-injury; functional imaging and neurocognitive assessment of the overlap between depression and frequent marijuana use; using fMRI to differentiate major depression from bipolar disorder; and the implementation and evaluation of a novel health care delivery model for youth with mood and/or anxiety concerns. An abstract was presented at Human Brain Mapping on the neural circuitry of reward processing in frequent marijuana users and a manuscript is in preparation related to that. Multiple manuscripts are in preparation or review related to the service delivery model research of FEMAP, including the manuscript, "An engagement and access model for health care delivery to adolescents with mood and anxiety concerns".

Goals for the next year include getting out research results in published form; obtaining an operating grant for the program to ensure continuation of the clinical research component; and maintaining support for our addictions therapist. An important goal is to secure funding for our receptionist and for our intake-coordinator/research-coordinator/family-therapist. Therefore, the 5-year goal for FEMAP is to obtain an operating budget from secure (e.g., Ministry) sources to secure our staff and thereby guarantee the continuation of the program.

### General Adult Ambulatory Mental Health Services (GAAMHS)

The largest ambulatory service in the Division, GAAMHS provides a variety of outpatient based services for patients and their families in the London-Middlesex Country area. In keeping with the overarching principle of right patient, right service, right time. The General Adult Ambulatory Service will continue its primary focus on access to treatment and flow of patients from the three primary areas of referral inpatients, community and

emergency department. Clinically the service will try to prevent barriers to treatment by maintaining broad based inclusion criteria. In addition to individual assessments and pharmacological treatment, group psychotherapy streams exist for CBT and DBT. GAAMHS also provides a full time day treatment program and groups to aid transition from hospital. Ever dynamic, the service is expanding with the addition of 2 psychiatrists in 2010/2011 and 2 new psychiatrists to join in 2011/2012. This year will see an expansion of clinical services to include a depot medication clinic and assessment for ambulatory ECT. Resident training is now well established within GAAMHS. This year welcomes the addition of clinical fellow Dr. Zev Grynspan as well as continuing to provide undergraduate training for our medical students.

#### **Inpatient Services**

Crisis and short-term inpatient treatment for adults is the focus of this service of 68 beds located at the Victoria Hospital B-Tower Level 7. The inpatient service provides care to adults who present with mental health difficulties that embrace the entire spectrum of mental illness such as mood disorders, suicidal behaviour, anxiety disorders, schizophrenia and other psychotic disorders, mental disorders of aging, concurrent substance abuse problems, and acute symptoms of distress related to family or personal crisis. It is also the site where much of our department's educational and training activities take place.

In September 2010 after Dr Devarajan resigned, the physician leadership was taken on by Dr. Volker Hocke. In the fall of 2010 the inpatient unit extended its spectrum of specialized services with the start of Dr. A. Vasudev and Dr. Oates as consultants for Geriatric Psychiatry. Early in the year 2011 the preparation for the move started and was rewarded by a smooth transition from the South Street Hospital site to the Victoria Hospital in April. The working relationship between physicians and staff was revisited. As a result a new team building concept was discussed and started successfully after the move. Early in the year 2011 the process of implementing more therapeutic options was started. We have started skills training groups with support by OT and a motivational group for addictions with support from nursing management.

The plan for the next year will focus on extending therapeutic options, enhancing the team building, revisiting the documentation process and implement a structured approach to improve the physical health of the patients. With the recruitment of more physicians and staff the unit will extend the number beds to 74 in the fall of 2011.

#### **Prevention & Early Intervention in Psychosis (PEPP)**

PEPP is a clinical academic program for individuals with first episode non-affective psychoses. The clinical framework of the program is structured around a modified assertive case management service in which the intensity of the treatment is guided by the patient's needs, stage of the illness and needs of the family. In this program service, education and research are integrated so that individuals seeking treatment will also benefit from the new knowledge that is being generated.

#### **Accomplishments July 2010 – June 2011:**

- Implementation of a First Episode Psychosis Home Assessment and Treatment Team supported by a two year grant from AMOSO.
- Presentations made in schools on recognition and early intervention in first episode psychosis.
- Clients registered for distance learning through PEPP as an Independent Learning

Centre.

- Departmental CME on Early Intervention in First Episode Psychoses.
- PEPP was again nominated for the Mental Health Champions Award at the annual Breakfast of Champions at the Convention Centre.
- Family Workshops on Psycho-education held quarterly on a weekend.
- An Art Show for PEPP patients and their families was held at The Arts Project (October, 2010).
- There were 4 publications in Peer Reviewed journals and 1 in press, and presentations by PEPP staff at the 7<sup>th</sup> International Conference on Early Psychoses in Amsterdam (November, 2010). Research collaborations continue with the Division of Neuropsychiatry, and with McGill and University of Calgary.

#### New Goals for 2011 – 2012:

- Additional staff, Dr. Julie Richard, to join the PEPP team of Psychiatrists.
- Continue the Home Assessment and Treatment program and apply for future funding.
- Big Night fundraising dinner planned for October, 2011.
- We will continue to focus our research on the relationship of the self-stigmatization process to recovery from serious mental illness as well as evaluate interventions to better help clients with psychotic disorders deal with stigma.
- Offer educational opportunities to graduate students in Basic Sciences.

#### Traumatic Stress Service

For patients who have experienced acts of violence, emotional, physical and/or sexual abuse, severe neglect, catastrophic events such as motor vehicle accidents, natural disasters, or war-related trauma, a phase-oriented approach utilizing individual and group therapies, along with tailored pharmacotherapy is offered. The service was pleased to have Dr. Kamini Vasudev joining and providing medical/psychiatric support this year. A second area of service is our assessment and treatment unit affiliated with clients referred from the Workplace Safety and Insurance Board (WSIB). This last year we successfully competed and were awarded another five-year contract to provide services to WSIB. Strong links exist between the service and our neuroimaging research program in trauma.

#### Urgent Consultation Service (UCS)

The mandate of the UCS is to provide a timely response to patients in need of urgent ambulatory mental health assessment whether referred by family physicians, the Emergency Departments at LHSC, and SJHC Urgent Care Clinic. Service Leader, Dr. Dan Lefcoe, along with Dr. Charlie Chamberlaine work together with nurse case managers and trainees, seeing all new referrals within 72 hours of notification.

Goals over the next year are to further integrate Urgent assessments with the evolving General Adult Outpatient programs to improve efficiency and decrease wait times.

#### **St. Joseph's Health Care - Based Services**

##### Mental Health Consultation and Evaluation in Primary-Care (MHCEP)

MHCEP is a joint initiative, co-located at family practice sites, which provides collaborative primary-based care to clients in Middlesex County who are at risk of becoming increasingly ill. The MHCEP team responds to referrals from the sites' primary care physicians for consultation, education or training. The preventative and on-site treatment interventions of MHCEP should avert clients' need to access crisis, urgent,

emergent or hospital admission, thereby building system capacity. The emphasis is on short-term care with individuals and families to promote accessibility and minimal wait time for the service. This last academic year the program came under the direction of Dr. Aleksandra Nowicki.

#### Operational Stress Injury (OSI) Clinic

Located at the Parkwood Hospital site, the OSI Clinic is part of a national network of ten OSI outpatient clinics funded by Veterans Affairs Canada. The OSI clinic provides specialized mental health services to Veterans, Members of the Canadian Forces (Regular and Reserve), the Royal Canadian Mounted Police (RCMP) and their family with service related psychological/psychiatric illness. The clinic serves a very large catchment area including all of Southwest and Northwest Ontario, the Greater Toronto Area (GTA) and the area around Lake Simcoe and Georgian Bay including the city of Barrie.

The specialized team of psychiatrists, psychologists, mental health nurses, social workers provides comprehensive assessment and treatment in collaboration with community providers. The clinic is also involved in providing education, outreach and research. Currently there are two psychiatrists, Dr. Don Richardson and Dr. David Haslam working predominantly with younger veterans and Dr. Harris provides psychiatric consultation services to the older Korean and World War II veteran.

Current goals include continuing research in the area of posttraumatic stress disorder and other operational stress injury, enhancing services to the community through the Ontario Telemedicine Network (OTN), supporting the outreach initiative to the GTA and further developing training opportunity for residents and psychiatrist interested in veterans' mental health.

#### New Appointments

*Dr. Daniel Hertzman* joined our Division in July 2010 at the rank of Assistant Professor, Provost Stream. His clinical work is at LHSC in both the general inpatient and outpatient settings. Daniel was successfully retained by our Department immediately after excelling here in our residency program at Western.

Dr. Hertzman obtained his BSc in Psychology at McGill University (1999) prior to completing his MD at Universite de Montreal (2005), both in Montreal. In 2006 he joined our residency program at UWO where he distinguished himself clinically and academically, including taking on several residency positions culminating in being the Chief Resident.

*Dr. Viraj Mehta* joined DGAP as a secondary appointment in July 2010, at the rank of Assistant Professor, Provost Stream. His clinical work within the Division is in the LHSC Emergency Department as a consultant on the CEPS team. As part of his primary appointment at the RMHC-London Concurrent Disorders Program, he also consults to the LHSC inpatient unit in the area of concurrent mental illness and substance use disorders. Viraj is another example of one of our best residents being retained on with a faculty appointment.

Dr. Mehta received his BSc in Science from McMaster University, Hamilton, graduating on the Dean's Honour List in 2001. He subsequently completed his MD program here at

the Schulich School of Medicine and Dentistry, London, in 2005. Subsequently he stayed on further, completing his Psychiatry Residency Program at UWO in June 2010. During his residency, Viraj established himself as superb teacher in his own right, which he continues to be at present.

*Dr. Christopher Tidd* transferred to full-time status with the Division in February 2011, continuing his work in our Emergency Psychiatry Service (CEPS), and taking on a LHSC inpatient service responsibility as well. Dr. Tidd has just recently been promoted to Associate Professor, Provost Stream.

From 1989 to 1993, Dr. Tidd studied Biology at Clarkson University, New York, receiving a Bachelor of Science degree. In 1997, he graduated with a medical degree from State University of New York (SUNY) in Syracuse. From 1997 to 2001, Dr. Tidd trained as a psychiatry resident at the University of Rochester, N.Y. After completing the residency program, he began as a clinical instructor at the University of Rochester and as a psychiatrist at the Rochester Psychiatric Center where he coordinated student education and served on the clerkship grading committee. From 2001 to 2002 and 2005 to 2006, Dr. Tidd worked at the Strong Memorial Hospital Psychiatric Emergency Department providing emergent psychiatric care. Prior to becoming a full-time member of the Division, Dr. Tidd was at the RMHC, Psychosis Program – St. Thomas.

Over the years, Dr. Tidd has won many awards as an educator, and is a highly sought after clinical supervisor.

*Dr. Kamini Vasudev* joined our Department (together with her husband, Dr. Akshya Vasudev – Division of Geriatric Psychiatry), in September 2010, after training and working in the UK. She holds the rank of Assistant Professor, Provost Stream, and works at LHSC in both the general inpatient and outpatient settings.

In 1995, she obtained her MBBS from the Lady Hardinge Medical College, New Delhi, India. Subsequently, she further qualified for her MD from the University of Delhi, India (1999) and DNB (Diplomate National Board), New Delhi, India (2002), both of which in the area of Pharmacology. She subsequently pursued her interest in psychopharmacology as a Clinical Research Associate at the Stanley Research Centre in Newcastle-upon-Tyne, before completed her Psychiatry specialty training in the UK. During her training he was the winner of several awards & merit certificates.

Dr. Vasudev's research work is in the area of bipolar disorder and physical health of patients with severe mental illness. She has published several papers, articles and abstracts and has given several presentations in these areas. She also has special interests in Quality Improvement and teaching, and subsequently has found ways to merge all her interests and skills with us here in London.

### Divisional Awards

While elsewhere in the report, awards given to Departmental members can be found; this year the Division chose to recognize one of its ranks for exemplary clinical service, as well as for professionalism and collegiality. The award was presented at the Departmental Awards Ceremony in June.

Clinician of the Year – *Dr. Richard Owen*



## Promotions

The division is proud to report the academic promotion and continuing appointment of:

*Dr. Chris Tidd*, to Associate Professor and granted a continuing appointment.



"As we anticipate the 'tsunami' with an aging population requiring mental health care, we are planning with our LHIN to develop community services that support people in the least restrictive way, and simultaneously train psychiatrists, other physicians and mental health care professionals to meet this societal need"

Dr Lisa VanBussel  
Chair Division of Geriatric Psychiatry

Bridging clinical care and research and evaluation continues to be the focus of the **Division of Geriatric Psychiatry**. As the grey tsunami starts to hit health care providers in the 21<sup>st</sup> century, government, health policy specialists, researchers and local health care organizations are starting to mobilize the resources and expertise to ensure that older adults with mental illness and addictions have access to expertise in assessment and treatment services. Maintaining strong relationships with traditional academic and clinical partners such as geriatric medicine, neurology, and family medicine, will be crucial in advancing the field. However, the challenge lies in forging new relationships with other sectors and partners that have not been typically compelled to champion for quality care of the elderly. Scholarly and clinical expertise of Division members demonstrates current and potential opportunities to influence positive change in an evolving health care system.

## Awards and Acknowledgements:

In August 2010 the Division welcomed Dr. Akshya Vasudev as Assistant Professor in the Division of Geriatric Psychiatry, Schulich School of Medicine and Dentistry. His clinical work involves inpatient, outpatient and consultation liaison. He also, in collaboration with a neurologist, has a clinic in neuropsychiatry, seeing patients with Huntington's disease. While the majority of his time is spent as a clinician, he is also very active in research, specializing in such areas as late life depression, autonomic dysfunction, gait instability, cognitive dysfunction, suicidality, and their relationship with vascular risk factors. Dr. Vasudev received his Doctorate in Medicine from the University of Delhi, India. Following employment in the pharmaceutical industry as a Medical Manager, he returned to clinical practice with a clinical research post at the Regional Affective Disorders Unit, Department of Psychiatry, Royal Victoria Infirmary in Newcastle upon Tyne, United Kingdom. He has now settled here in London, along with his wife, Dr. Kamini Vasudev, a psychiatrist in Adult Ambulatory Mental Health, and his young family.

Congratulations to Dr. Marnin Heisel, on his promotion to Associate Professor with tenure at The University of Western Ontario, effective July 1, 2011. Over the 2010-2011 year Dr. Heisel won research awards from the Canadian Association for Suicide Prevention (CASP, 2010) and the American Association of Suicidology (AAS, 2011).

In July 2011, Dr. Amer Burhan accepted a position at CAMH, Queen Street Site - Geriatric Psychiatry Program. He will be reducing his time from 1.0 to 0.2 at RMHC-L, SJHC. We would like to acknowledge his contributions to the RMHC-L Geriatric Program and Division of Geriatric Psychiatry. One of his interests is the investigation of the management of early neuropsychiatric symptoms of dementia. During his time here, he was instrumental in the acquisition of the TMS, and was the clinical lead in ECT. His colleagues looked to him as an opinion leader in brain stem and neuropsychiatry. Dr. Burhan stood out for his collegiality, approachableness, and willingness to participate in education - from clerkship to clinical investigators. He was recognized by the resident group, twice receiving the Postgraduate Teaching Award, and his contributions in education, research and clinical work were acknowledged at the Spring Division Meeting. We wish Dr. Burhan all the best; the Division and Program look forward to continuing to work with him in his new role.

Congratulations to Division member Jennifer Doherty on receiving her Gerontological Nursing Certification from the Canadian Nurses Association.

Jennifer Doherty and Tony O'Regan, Clinical Nurse Specialists with the RMHC-L Geriatric Program, attained Adjunct status with the Department of Psychiatry, Schulich School of Medicine & Dentistry in October 2010. This recognizes their significant contributions to the Division in the areas of clinical service, education and research.

### Research

The research and academic contributions of the Division continue to be robust and are growing to fruition as partnership and interprofessional research relationships mature. Below is a sampling of the significant contributions in the past year.

In 2010, Dr. Marnin Heisel completed his second term as Vice President, and first term as Research Committee Chair of the Canadian Association for Suicide Prevention. He remains a provincial advisor to the Ontario Association for Suicide Prevention, and a council member of the London & Middlesex Suicide Prevention Council. He delivered an invited presentation to the Canadian Parliamentary Committee on Palliative and Compassionate Care in Ottawa in October, and has delivered a number of media addresses on the topic of late-life suicide prevention.

Marnin and his colleagues and students have now completed a 2-year longitudinal OMHF-funded study, investigating the onset and/or exacerbation of suicide ideation among community-residing older adults, and have received additional funds from the Lawson Health Research Institute's Internal Research Fund to extend data collection and investigate associations between suicide ideation and the desire to hasten death. Work is continuing on a knowledge translation study, funded by a CIHR Betty Havens Award, to evaluate changes in knowledge and attitudes of providers towards working with suicidal older adults. Additional on-going projects include clinical validation of the Geriatric Suicide Ideation Scale with older adults receiving mental health services, funded by the UWO Department of Psychiatry's Research Seed Funding Competition; a chart review study of older adults with suicide ideation in the Emergency Department; and a collaborative study with a colleague in Pediatric Oncology, developing a quality of life scale.

In 2010-2011, Marnin and his colleagues and trainees published (or have “in press”) six peer-reviewed research articles, three book chapters, one invited book review, and a number of abstracts and/or contributions to conference proceedings, with presentations and/or invited addresses at numerous local, Canadian, and American conferences on suicidology, gerontology or geriatrics, knowledge translation, and/or mental health. Marnin has continued to deliver invited addresses, lectures, and workshops on late-life mental health and suicide prevention to various professional community-based associations, including the recent NICE Knowledge Exchange in Toronto. In addition to these significant advancements, Dr Heisel also supervises many graduate students, mentoring them in their academic careers.

Dr. Akshya Vasudev reported on the results of a very interesting and possibly practice changing study which has been accepted for publication in the LANCET. He comments that he was fortunate to be involved in this study and wanted to share the results. The HTA-SADD study was a multi-centric study conducted in England which compared sertraline, mirtazapine or placebo in patients with depression in those suffering from Alzheimer's Dementia. There was no difference between these agents in reducing depression. As expected, the placebo group had significantly fewer adverse events. These results should make us think twice before prescribing antidepressants in Alzheimer's dementia. As well, Dr. Akshya Vasudev is currently doing a monthly clinic with Dr. Chris Hyson, assessing patients with Huntington's disease who present with Neuropsychiatric Symptoms. This could translate into research projects in the future.

Dr. Vasudev was acknowledged for his research potential as he received Department of Psychiatry seed funding, as well as a Schulich Research Opportunities Project funding for a project titled: “The Effect of Cardiovascular Risk Factors on Suicide Ideation in a Geriatric Population”. Project co-lead is Dr. Marnin Heisel. Dr. Vasudev's other ongoing research projects include “Does cerebrovascular risk factor burden predict a triad of slow gait, impaired frontal executive function”; “Depressive symptoms in patients with mild cognitive impairment - a cross sectional and prospective analysis and quantify the Medial Pre Frontal Cortex (MPFC) responsiveness to Parasympathetic Nervous System (PNS) modifiers in Late Life Depression (LLD)”; and “Interaction between depression genes, antidepressant concentration and antidepressant response (efficacy and adverse events) in the treatment of late life depression”. The last project is being conducted in collaboration with the Department of Pharmacology, UWO.

Interprofessional research collaboration has sparked exciting research in the area of knowledge exchange. Iris Gutmanis, with Division members Ann Jarvie and Lisa Van Bussel, have been delving into the area of Knowledge Transfer (KT) with Long Term Care Homes through qualitative research entitled “Performing Dementia Care: Exploring Theatre-Based Knowledge Exchange Strategies”. Dr. Gutmanis has been involved in variety of KT research projects including “Rethinking the aging at home discourse: A study of seniors' perspectives and promoting knowledge exchange”; “Reintegration into the community following discharge from inpatient MSK rehabilitation”; and “Living Arrangements of Ontario Seniors. Spotlight on integration of knowledge and practice”.

Dr. Van Bussel and Dr. Laura Diachun continue to collaborate on educational research regarding medical student training and the care of the elderly. Their recent article “Not wanted on the voyage: Has case-based undergraduate medical education abandoned geriatric content?” has been submitted for publication, as has the Academic Medical Organization of Southwestern Ontario (AMOSO), funded “Care of Older Adults, Educating our Future Physicians: An Undergraduate Schulich School of Medicine and Dentistry Integrated Geriatric Curriculum Initiative”. There is a growing awareness at medical schools that the curriculum needs to reflect the changing demographic needs of the aging population. Dr. Diachun's national expertise in education has resulted in a

"Validation of the Comprehensive Geriatric Assessment Guide (CGAG)" - a student performance evaluation tool.

Division members Tony O'Regan and Jennifer Doherty presented several posters at such events as the RMHC Research Half Day, the Quality and Patient Safety Summit, and the Department of Psychiatry Academic Research Day. Titles were: "Promoting Interprofessional Collaborative Education (ICE) in the Geriatric Psychiatry Program-Lessons Learned", "Using guided reflection to promote the RNAO Best Practice Guideline on establishing therapeutic relationships", "The System for Classification of In-Patient Psychiatry (SCIPP) assists in the identification of high risk seniors", and "The Geriatric Psychiatry Program (GPP) experience of participation in a national falls prevention virtual learning collaborative".

### Education

Dr. Helen Park, UGE Coordinator, reported that only two of the 2010-2011 third year clinical clerks from Schulich went through the Geriatric Psychiatry program as part of the eldercare rotation. There were no elective students during the 2010-2011 year. There will be a change in UGE starting September 2011. The 2011-2012 third year clinical clerks will choose 2-week "selectives" during the 6 week block psychiatry rotation. Early indications show three to four students per 6 week block choosing Geriatric Psychiatry or Neuropsychiatry selectives.

In Postgraduate education, residents in Geriatric Psychiatry this past year were Jennifer Tiffney, Chris Ryan, Georges Loba-Gutierrez, Mili Ryan, and Juliana Li. Dr. Debbie Norrie and Dr. Kris Shu were the Family Medicine residents in 2011. Thanks to the addition of Dr. Vasudev we have seen a welcome increase in the number of residents working with the team. We welcome Dr. Vadim Beletsky as the Resident Representative with Geriatric Psychiatry this year. The Division of Geriatric Psychiatry developed the David Harris Award to recognize the resident trainee who best fulfills and encompasses the pillars of excellence in the care of older adults with mental health illnesses. The 2011 recipient, presented at the Awards Ceremony on June 14, is Dr. Chris Ryan, PGY-3 Resident.

The Geriatric Psychiatry Eighth Annual Symposium held on November 3, 2010, featured Plenary Speaker Dr. Ron Keren, who spoke on Pseudodementia. The 2<sup>nd</sup> Plenary was Darcy Harris on Navigating Loss and Transition. There were twelve concurrent workshops through the day and among them our own members were Dr. E. Black and Tom Ross with "Cognitive Assessment Refresher: Self Experiential Cognitive Evaluation - Interactive Session"; Jennifer Doherty and Laurie McKellar on "Delirium, Dementia and Depression E-learning program (The RNAO 3Ds, E-Learning)"; and the RMHC-London Team: "Understanding individuals with complex mental health needs".

The Geriatric Psychiatry CME on May 12, 2011 featured Dr. Tarek K. Rajji, Centre for Addiction and Mental Health, University of Toronto on "Cognition and Aging in Schizophrenia".

Division members L. Van Bussel, A. Jarvie, T. O' Regan, J. Fogarty, and L. Diachun, with their affiliated clinical programs, contribute to the Specialized Geriatric Services Education and Capacity Building mandate by providing educational and clinical expertise to the following events: SGS Interdisciplinary Grand Rounds, SGS Fall Education Series, SWOGAN Team Exchange and Geriatric Refresher Day. Through these events Division members provide expertise to the South West region and its affiliated health care partners, which include Long Term Care Homes, CCAC, primary care, and Schedule 1 partners. Jenn Doherty and Tony O'Regan co-presented the CME presentation on Patient Safety Initiatives - RNAO Best Practices and Nursing Skills Development Team Initiatives.

#### Clinical Service Leadership and Advocacy

Behavioural Support Services (BSS), a South West LHIN Year 3 Aging at Home Project, is underway, with project lead Kelly Simpson. Division members Lisa Van Bussel, Iris Gutmanis, and Jennifer Speziale (co-chair of the Committee) are members of the SW LHIN-wide Behavioural Support Services Steering Committee and work with other partners to provide leadership and direction as this initiative strives to provide regional integration and oversight with locally available clinical and education support for the assessment and treatment of individuals with dementia, late mental health issues and addictions. As this project moves into the implementation phase, significant system change will occur, thus providing enhanced locally available clinical expertise.

The Regional Psychogeriatric Program officially moved from Parkwood to RMHC-London in June 2011, to co-locate with the RMHC-London Geriatric Psychiatry Program. With Tier 2 divestment to south west partners underway the RMHC-L program held a retreat to refine its role and place in the changing spectrum of health care services. Currently, two tertiary care inpatient units provide specialized assessment and treatment in an interprofessional care model, and outpatient programs work with partners to provide smooth transition to place of residence and specialized treatment. Several program and Division members (A. Jarvie, K. Vienneau, P. Matuska) have been involved in the above mentioned BSS project as clinical experts. This hub of tertiary expertise supports ongoing training for medical students in psychiatry, family medicine, geriatric medicine, therapeutic recreation, social work, psychology and nursing.

The LHSC-GMHP team has had an exciting year in welcoming both new geriatric psychiatrist Dr. Akshya Vasudev, and new RN, Nancy Bol. In addition to the busy geriatric outpatient program, Dr. Oates and Dr. Vasudev continue to provide geriatric inpatient psychiatric care and consultation liaison coverage at LHSC, with improved access and care for patients as seamless transition between these care areas within the GMHP has been achieved. Thanks to the addition of Dr. Vasudev, and a welcome increase in the number of residents working with the LHSC GMHP team, wait times for new referrals have decreased, despite more than double the volume of referrals coming to our service. Both short and long term follow up, as needed, is provided to many of these clients, with a focus tailored to their needs by the complementary skills of our multidisciplinary team. The LHSC team is enjoying the opportunity to partner with Dr. Vasudev and Dr. Marnin Heisel in supporting their research projects in geriatric psychiatry.

Sharing research, educational and clinical expertise with trainees, health care providers and community partners improves the awareness of geriatric mental health issues and builds capacity in the greater health care system, and strives to improve quality of care. In the upcoming year the Division will continue to build on current successes and is looking forward to new opportunities to improve care of the elderly.

#### **Division Membership**

##### **Associate Professor and Chair**

Lisa Van Bussel

##### **Professor Emeritus**

David Harris

Full Time Faculty

**Professors**

Sandra Fisman

**Associate Professors**

Michele Doering

**Assistant Professors**

Amer Burhan

Marnin Heisel

Noel Laporte

Jennifer Oates

Hae-Ryun Park

Akshya Vasudev

**Part Time Faculty**

Jennifer Doherty

John Feightner

Michael Fisman

Jennifer Fogarty

Tony O'Regan

David Trenker

**Affiliate Members**

Ed Black

Michael Borrie

Laura Diachun

Maggie Gibson

Iris Gutmanis

Ann Jarvie

Tom Ross

Jennifer Speziale





*"The challenge of our time is not to discover a gene for a particular neuropsychiatric disorder but to understand the final common pathway of the disorder with advanced brain imaging techniques."*

Dr. Peter Williamson,  
Chair, Division of Neuropsychiatry

The **Division of Neuropsychiatry** was created in 2001 to provide academic leadership in neuroscience research within the Department of Psychiatry. It provides a home for basic science researchers within the department and facilitates more effective collaboration with clinical research groups. It enhances collaboration between imaging researchers at the Robarts Research Institute, the Lawson Health Research Institute and these clinical research groups. Finally, it allows the development of advanced training opportunities within the department at a fellowship, MSc, PhD and postdoctoral level through collaboration with the Department of Medical Biophysics and Anatomy and Cell Biology and the Neuroscience Graduate Program. The division also contributes to clinical service provision through a consultation role with the Department of Clinical Neurological Sciences and with the Acquired Brain Injury program at Parkwood Hospital.

### Research Accomplishments

During the first five years, four vertically integrated research programs were developed as a result of support: a schizophrenia group led by Dr. Williamson, the *Tanna Schulich Chair in Neuroscience and Mental Health*, a posttraumatic disorders group led by Dr. Ruth Lanius, the *Harris-Woodman Chair in Psyche and Soma*, a mood and anxiety disorders group led by Dr. Beth Osuch, the *Rea Chair in Mood and Anxiety Disorders* and an autism group led by Dr. Rob Nicolson who holds an *Endowed Chair* at the *Autism Centre of Excellence* at the University of Western Ontario. All programs collaborate with Medical Biophysics and imaging at both the *Lawson Health Research Institute* and the *Robarts Research Institute* and basic science through the Neuroscience Program and the Anatomy and Cell Biology and Psychology Departments at the University of Western Ontario. Highlights of collaborative clinical and basic science research over the last year in each of these areas are reviewed below.

**Schizophrenia:** Over the last two decades, molecular genetic studies have dominated the investigation of neuropsychiatric conditions. Some promising genetic correlates of neuropsychiatric disorders have emerged but none explain more than a small fraction of cases of most disorders. *The Human Illnesses: Neuropsychiatric Disorders and the Nature of the Human Brain* authored by the Dr. Williamson and Dr. John Allman, an evolutionary biologist at the *California Institute of Technology*, and published by *Oxford University Press* in January, 2011 offers a new paradigm for understanding these disorders. The thesis of the volume is that the neuronal pathways that underlie neuropsychiatric conditions mirror unique human capabilities.

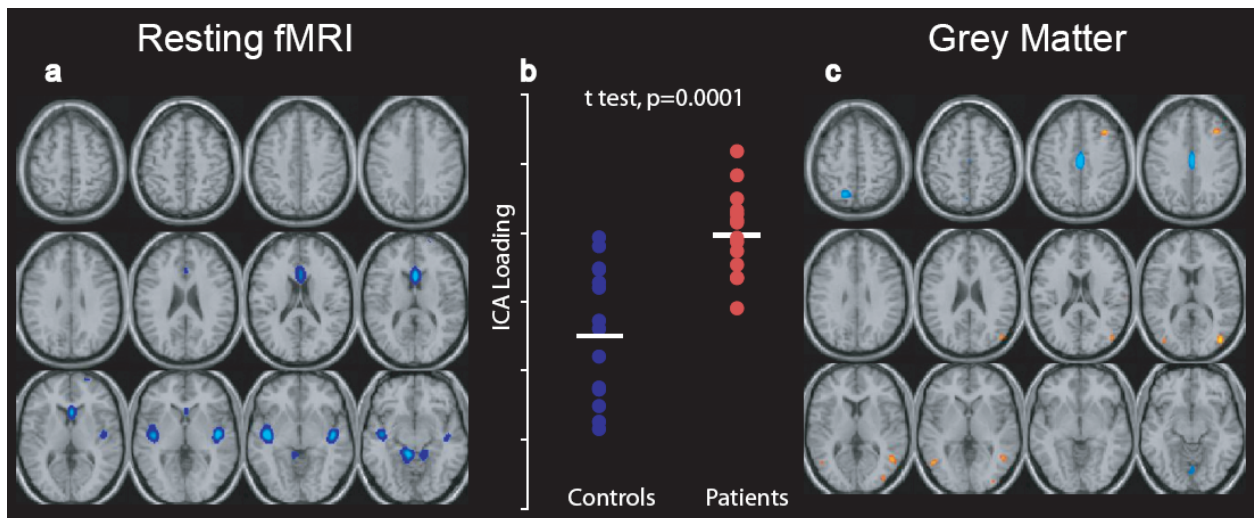
It is suggested that central to the understanding of the human brain is the capacity for representation. Brain structures such as the frontal pole, temporal pole, and fronto-insular cortex are highly developed in humans and may be associated with this function. This *representational network* receives input from a *directed effort network* including the dorsal anterior cingulate cortex, auditory cortex, and hippocampus and an *emotional encoding network* including the ventral anterior cingulate cortex, orbital frontal cortex, and amygdala. Von Economo neurons which are particularly prominent in the human brain in the dorsal and ventral anterior cingulate cortex and the fronto-insular cortex may have allowed synchronization of these regions in the human brain making representation and complex social relationships possible.

Conditions like schizophrenia might result from a failure of the *directed effort network* while bipolar disorders may arise from failure of the *emotional encoding network*. Autism is likely associated with failure of the *representational network* and frontotemporal dementia may be associated with failure of several networks including the *representational* and *emotional encoding networks*. From this perspective, neuropsychiatric disorders are seen as selective failures of brain networks involved in the integration of cognition, affect and perception.

Just as heart failure leads to edema and shortness of breath, failures of these pathways lead to symptoms of psychosis, mood dysregulation and behavioural disorder no matter whether the cause is genetic, infectious or environmental. Although the causes of these disorders are likely to remain elusive for sometime, a better understanding of the brain networks that underlie these disorders could guide the search for environmental factors, genetic correlates, and better treatments much as the description of the circulatory system led to the development of modern medicine 400 years ago.

The model provides a framework for understanding brain imaging findings of the group at the University of Western Ontario over recent years in collaboration with Dr. Rahul Manchanda and the PEPP program, Dr. Dick Drost (now retired), Dr. Ravi Menon and Dr. Jean Théberge. The work has been supported by a five year grant from the *Canadian Institutes of Health Research*. If there is a failure of the directed effort network in schizophrenia, then it would be expected that there would be altered glutamatergic metabolites in key parts of the network such as the dorsal anterior cingulate cortex. Over time, these metabolic changes would be expected to correlate with social deficits and gray matter losses in the directed effort network over time. Our seven year longitudinal study of first episode schizophrenic patients to be published in the June 2011 issue of the *British Journal of Psychiatry* confirms the expected findings.

Regions showing loss of glutamatergic metabolites and gray matter in the first years of schizophrenia are associated with self-monitoring, perhaps explaining why patients have so much difficulty identifying thoughts and actions as being their own. Intrinsic networks associated with self-monitoring and their relationship to losses of gray matter over time in directed effort regions are now being examined with advanced Fit/Fusion techniques in collaboration with the MIND Institute in Albuquerque, NM (Figure 1).



**Figure 1:** ICA Fit/Fusion gray matter/resting network component separating controls from schizophrenic patients. Schizophrenic patients show decreased connectivity in the resting network (center) associated with decreased gray matter in directed effort networks in schizophrenic patients. Courtesy Dr. Kristen Ford.

Dr. Williamson continues to sit on Advisory Board of the MIND Institute in Albuquerque, NM and the Advisory Board of *Acta Psychiatrica Scandinavica* in Aarhus, Denmark. In the last year, he has given invited lectures in Barcelona, Spain and Aalborg, Denmark and has served on the Scientific Advisory Committee for the first International Congress on the Default and Other Intrinsic Networks in Health and Disease in Barcelona in June, 2010. His work was highlighted in the cover article of the March, 2011 issue of *Scientific American Mind*.

**Mood and Anxiety Disorders:** The First Episode Mood and Anxiety Program (FEMAP) is now well established and proving to be an excellent base for both clinical and brain imaging research. Over the last year Dr. Osuch has implemented a novel health care delivery project for early identification and intervention for mood and anxiety funded by a *Ministry of Health Innovation Fund Award*. The project was selected for the Innovation Fund Showcase at Hart House in Toronto in November 2010 and Dr. Osuch represented our university on a panel on 'Mental Health, Comprehensive Care and Core Services'.

In a project funded by the *Ontario Mental Health Foundation* Dr. Osuch has been studying neurofunctioning and cognitive interactions in major depression and marijuana use in youth with functional and structural brain imaging. Along with Dr. Jean Théberge and in collaboration with Dr. Vince Calhoun, The MIND Institute, Albuquerque, NM, she was one of three runners up in the Lawson Innovation Prize competition. Unfortunately the project came second but it has received some further funding from the Lawson Health Research Institute to complete a feasibility study. Using Fit/Fusion techniques similar to the schizophrenia studies, it may be possible to diagnose bipolar versus unipolar depression on the basis of a simple MR scan. This would be relevant to younger populations where treatment of unrecognized bipolar depression with antidepressants may lead to an exacerbation of mood cycling. Some of the preliminary differences in these groups are shown in Figure 2. Dr. Osuch has done a number of interviews with the CBC and other media on this work.

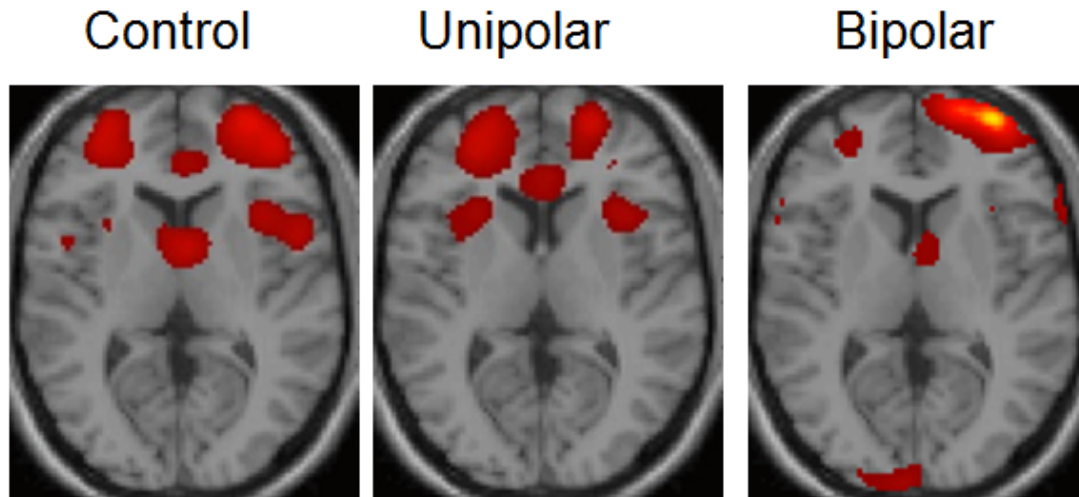


Figure 2: Different patterns of MRI BOLD activation in response to attention and emotion tasks in controls, unipolar and bipolar subjects. Courtesy of Dr. Beth Osuch and Dr. Kristen Ford in collaboration with Dr. Vince Calhoun, The MIND Institute, Albuquerque, NM.

Dr. Derek Mitchell, trained at *University College*, London and recruited from the *National Institute of Health*, has been collaborating with Dr. Osuch on a number of projects on the cognitive neuroscience of affective disorders. In addition to the paradigm development on the above studies, Dr. Mitchell has published a paper on decision making processes in the prefrontal cortex in *NeuroImage*, decision making and emotion regulation in *Behavioral Brain Research*, the neural correlates of emotional awareness in *Journal of Neuroscience* and deficits in attention to emotional stimuli in bipolar youth in *Journal of Abnormal Psychology*. This work has been supported by grants from *Natural Sciences and Engineering Research Council of Canada* and the *Social Sciences and Humanities Research Council of Canada*. In recognition of his expertise, he gave an invited lecture to the Rotman Research Institute's Annual Conference on the Neuroscience of Emotion and Emotion-related Disorders in Toronto in March, 2011.

Posttraumatic Stress Disorders: Dr. Ruth Lanius and Dr. Paul Frewen, who has joined the group after completing his PhD at the University of Western Ontario, continue to make noteworthy contributions to the understanding of posttraumatic stress disorders. The most important of these has been the description of a new dissociative subgroup of posttraumatic stress disorders in the lead article of the June issue of the *American Journal of Psychiatry*. This is a fundamental conceptual contribution to the field and it is of particular note that international leaders of the field such as Dr. J.D. Bremner were co-authors of the paper.

Dr. Lanius and Dr. Frewen have also published on social emotional processing in these patients in *Social and Cognitive Affective Neuroscience* and the *Journal of Psychology*. Following up on the first report of default mode anomalies in posttraumatic stress disorder patients, Dr. Lanius has published a number of papers on default mode connectivity and the prediction of posttraumatic stress disorders on the basis of resting network findings in *Human Brain Mapping*, *Journal of Psychiatry and Neuroscience*, and *Acta Psychiatrica Scandinavica*.



Dr. Lanius was the senior editor of an important new volume entitled *The Impact of Early Life Trauma on Health and Disease: The Hidden Epidemic* published by Cambridge University Press in 2010. The chairperson of the United Nations Committee on the rights of the child characterized the volume as a “must read not only for clinicians and researchers in mental health, but for all who care for and work to protect the rights of the child”.

Much of this work has been funded by the *Canadian Institutes of Health Research*. However, Dr. Lanius is one of four investigators from *Harvard, New York University, Emory University* and *Western* who have recently been awarded \$5 million over four years from the *National Institute of Mental Health* in United States to study the effectiveness of a number of treatment strategies in posttraumatic stress disorders. Dr. Lanius sits on Research Panels for both the *Canadian Institutes of Health Research* and the *National Institute of Mental Health Research* in United States. In recognition of her prominence in the field, Dr. Lanius has given invited lectures this year in London, UK, Bethesda, MD, Boston, MA and Hamburg, Germany.

Autism: Dr. Nicolson, the *Endowed Chair in Autism Studies*, has brought together the *Autism Centre of Excellence* with a substantial grant from the Government of Ontario. Dr. Nicolson has been looking at the brain circuitry associated with autism supported by a *Canadian Institutes of Health Research* grant. Findings from this brain imaging study have implicated many brain regions associated with unique human capabilities like ‘theory of mind’ or the ability to perceive the intentions and feelings of others. In association with Dr. Paul Thompson at the *University of California at Los Angeles* numerous brain imaging studies in *Biological Psychiatry* and other high impact journals have been published in recent years. These publications have confirmed volumetric and magnetic resonance spectroscopy anomalies in these patients impacting different parts of the brain than in schizophrenia or mood and anxiety disorders.

Basic Science: Basic science investigations including genomic and proteomic studies of antipsychotic medications led by Dr. Walter Rushlow and an animal model of schizophrenia led by Dr. Raj Rajakumar are supported by the *Ontario Mental Health Foundation* and the *National Science & Engineering Research Council*. Dr. Rushlow’s novel ideas about second messenger effects of antipsychotic medications have been published in the *Neuroscience* and the *Journal of Neurochemistry*. Dr. Rajakumar’s animal model of schizophrenia, published in *Schizophrenia Bulletin*, explores the effects of subplate lesions in rats. While the rats were normal during early development, they subsequently developed abnormalities in prepulse inhibition and dopaminergic hyperresponsivity typical of patients with schizophrenia. This is a very powerful model which is consistent with the brain imaging findings with magnetic resonance spectroscopy. More recently Dr. Rajakumar has been working on the role of the prefrontal cortex in stress responsiveness and a new animal model of autism based on the *foxp2* gene with Dr. Nicolson and a number of other investigators at Western.

#### Educational Accomplishments

Dr. Williamson has developed a unique approach to postgraduate training. Over several years, he has co-supervised MSc and PhD students with Dr. Dick Drost, Dr. Jean Théberge and Dr. Terry Thompson. With this approach, students develop a unique skill set in neurophysiology, neuroanatomy, clinical neuropsychiatry, medical biophysics and the application of brain imaging techniques. Graduates have gone on to faculty positions

at Harvard, Pittsburgh and Wayne State. Dr. Williamson continues to co-supervise an MSc and a PhD student in Medical Biophysics, and a postdoctoral student, Dr. Kristen Ford with Dr. Osuch. Naoko Aoyama, a PhD candidate in Medical Biophysics from Japan, co-supervised by Dr. Williamson, successfully defended her thesis in May, 2011. Dr. Williamson was an external PhD examiner at the *University of Aarhus*, Denmark in March, 2011. Dr. Lanius has been supervising a postdoctoral fellow a visiting MSc student from Germany. Dr. Nicolson co-supervises a PhD student in Medical Biophysics.

Dr. Mitchell has been very active with graduate training. He currently supervises two MSc students in the Neuroscience program and one PhD student in Anatomy and Cell Biology. Dr. Rushlow is the Associate Chair for Graduate Studies in the Department of Anatomy and Cell Biology and currently supervises two PhD students. Dr. Rajakumar is thesis advisor and mentor to six PhD students in Anatomy and Cell Biology.



"I look forward to another productive and exciting academic year in the Division of Social and Rural Psychiatry in collaboration with division members and other divisions in the Department of Psychiatry, as well as with other Departments and Faculties at Western and elsewhere including our affiliated sites."

Dr. Abraham Rudnick,  
Chair, Division of Social and Rural  
Psychiatry

#### **The Division of Social and Rural Psychiatry (SRP)**

in the Department of Psychiatry at the University of Western Ontario (Western) was established in May 2008, and the undersigned was selected as its inaugural chair. Since then, an advisory board for the Division has been meeting, with representation from the Department of Psychiatry, other Departments at the Schulich School of Medicine and Dentistry, and other Faculties at Western, specifically the Faculty of Health Sciences, the Faculty of Social Sciences, and the Faculty of Arts and Humanities. The education coordinator for the Division changed in 2010 - Dr. Iouri Rybak replaced Dr. Sarah Jarman in this role. The annual visiting scholarship of the Division continued, with Drs. Kim Mueser and Sue McGurk – world renowned psychiatric rehabilitation and cognitive remediation scholars from Dartmouth College in the USA – visiting and presenting in November 2010. The honorary professorship of the Division continued, with Dr. Julian Leff from the UK as the inaugural honorary professor (2009-2012). A quarterly journal club focused on research methodology and ethics was initiated and sustained. The first Canadian clinical-research fellow in psychiatric rehabilitation graduated from the Division and was recruited to our Department as a faculty member. The webpage for the Division was established and it is updated continuously. Academic, clinical and administrative success of Division members continued and grew, such as in peer reviewed papers and grants, chapters and books, as well as in education development and implementation and in creative



professional initiatives and service such as board memberships. The Division is the primary academic hub for the psychiatric programs of ECP (including NOSP) and SWOMEN, which provide mental health education and some psychiatric service delivery to rural and remote communities in Northern Ontario and in Southwestern Ontario, respectively. The Division is also the primary academic hub for many faculty members who work clinically at RMHC. Hence find below a report on ECP, SWOMEN and RMHC.

*The Extended Campus Program (ECP)* facilitates Northern Ontario psychiatric education and research and is directed by the undersigned with administrative support from Ms. Hana Siemiarczuk. It supports quality psychiatric care in under-served Northern Ontario communities through continued recruitment and retention efforts, and is a member of the Ontario Psychiatric Outreach Program (OPOP). The ECP conducted its annual retreat on mental health of rural youth with the OPOP director attending.

The ECP continued to provide administrative and academic support to a group of Western faculty members providing full time clinical and academic services in Thunder Bay, North Bay, and Sudbury.

Support for psychiatrists providing consultations to the North of Superior Programs (NOSP) sites in Nipigon, Schreiber, Marathon, Manitouwadge, Geraldton and Longlac continued and a total of 17 consulting visit days were provided to these 6 NOSP sites, with residents attending some of them with a consultant and very positive feedback on their learning experience. Additionally, consultations via videoconferencing to the NOSP continued, and monthly teleconference indirect consultations to the NOSP clinical staff were initiated and conducted by the undersigned. Sessionals were added for the NOSP in the 2011-2012 fiscal year. NOSP continued to participate in OPOP research related to mental health services in remote communities in Northern Ontario, with the undersigned serving as a co-investigator.

NOSP's and other consultants delivered 213 consultation hours to 7 Northern Ontario sites (Thunderbay and NOSP)) via videoconferencing from the Regional Mental Health Care, London.

Opportunities for active participation in the Department of Psychiatry Western CME events were available for psychiatrists, health care professionals and medical clerks from Sudbury Regional Hospital, Northeast Mental Health Centre – North Bay Campus, Lakehead Psychiatric Hospital in Thunder Bay, St. Joseph's Health Centre – Thunder Bay, Thunder Bay Regional Health Sciences Centre and the Sault Area Hospitals in Sault Ste. Marie.

*The South Western Medical Education Network (SWOMEN)* Rural and Windsor continued to provide undergraduate and postgraduate education and proceeded to provide selective undergraduate education opportunities.

*Regional Mental Health Care (RMHC)* completed divestment to Kitchener-Waterloo in 2010 and proceeded with plans for divestment to Windsor. Planning continued for the new building. A quality and recovery council was established with multiple stakeholder representation.

I look forward to another productive and exciting academic year in the Division of SRP, in collaboration with Division members and other Divisions in the Department of

Psychiatry, as well as with other Departments and Faculties at Western and elsewhere, with our affiliated sites and with other academic institutions and pertinent community organizations in Canada and abroad.

## **Education in the Department of Psychiatry**

### **Educating and Training our Future Psychiatrists**

Delivering a high quality educational program for our undergraduate medical students and students from allied health disciplines, as well as our postgraduate trainees, has and continues to be a central direction in the strategic plan of the Department of Psychiatry. In addition, we have strongly invested in our program of Continuing Professional Development, recognizing the importance of life long learning opportunities. Increasingly some of our faculty are working in the area of educational scholarship and we anticipate more of our faculty collaborating with the Schulich Centre of Excellence in Research and Innovation (CERI). Our department has fine-tuned our Merit Based Recognition documentation and our adjudication committee continues to refine and define academic accountabilities. In particular, we have clear deliverables for the direct-to-physician AFP stipend.

The success of our education enterprise is in large measure a tribute to our educational leaders and the administrative support that they receive from Eva Adams, Heather Deisley, Glenda Shilleto and Suzena Mends in the Department of Psychiatry. This group is a key educational resource, and together they ensure that all educational activities run smoothly.

Psychiatry has long thrived with the delivery of care by several allied health disciplines. In order to practice this way, it is essential that we prepare our students through interprofessional educational approaches. We are excited as interprofessional education becomes the standard in other areas of medicine, and as we train all physicians for future practice.

### **Our Educational Leaders July 2010 – June 2011**

#### **Postgraduate Education:**

Director – Dr. Michele Doering

Portfolio Leads: CaRMS and PGY1 - Dr. Christopher Tidd

Evaluation – Dr. Kathryn MacDonald

Scholarship & Curriculum – Dr. Gregory McCarthy

Psychotherapy Training – Drs. Sandra Fisman and Michele Doering

#### **Undergraduate Education:**

Director – Dr. Raj Harricharan

Clerkship Co-ordinator – Dr. Sandra Northcott

#### **Continuing Medical Education/Continuing Professional Development:**

Director – Dr. Varinder Dua

Assistant Director – Joel Lamoure

### Resident Advisory Committee

#### *(Executive)*

M. Doering (Chair)  
G. McCarthy  
C. Tidd  
K. MacDonald

S. Fisman  
M. Ngo  
J. Tiffney  
E. Adams

#### *(Advisory)*

M. Doering (Chair)  
C. Tidd  
Z. Gynspan  
T. Jacob-Goldman  
R. Bodani  
P. Hall  
M. Ngo  
R. Harrichan  
J. Tiffney

V. Dua  
T. Doey  
J. Reiss  
J. Barr  
L. Ritchie  
K. MacDonald  
R. Owen  
G. McCarthy

### UGE Committee

R. Harricharan (Chair)  
H. Deisley (Admin Support)  
C. Garcia  
B. Loveday  
S. Northcott  
H. Park  
H. Siemarczuk  
M. Watling

M. Ngo (Chief Resident)  
L. Ritchie & Z. Gynspan (Senior Residents)  
R. Chandrasena (Chatham)  
A. Akinlosotu (Windsor)  
J. Villela (Windsor)  
T. Doey (Windsor)  
Y. Rybak (St. Thomas)

Exofficio:  
S. Fisman  
M. Doering

Student Representatives:  
Allanah Li, Meds 2012  
Mara Smith, Meds 2012

### CME/CPD Committee

V. Dua  
J. Lamoure  
M. McDonagh  
J. Reiss  
S. Dunbar,

G. Shilleto  
T. Jacob-Goldman  
N. Rizvi  
A. Haque  
B. Surti

## Postgraduate Education in the Department of Psychiatry



"We take great pride in the accomplishments of our trainees and in the fact that so many of our trainees have stayed with us as junior faculty."

Dr. Michele Doering

May 2011 saw five UWO psychiatry residents successfully complete their Royal College examinations. The five candidates were: Drs Kevin Baird, Zev Grynspan, Rebecca King, Julie Richard and Leslie Ritchie. Dr. Kevin Baird has returned to his hometown of Calgary. He plans to have a private practice in Calgary. Dr. Zev Grynspan is completing a fellowship in outpatient psychiatry at LHSC-Victoria, and has a strong interest in education. Dr. Rebecca King is completing a fellowship in Consultation Liaison psychiatry at the Sloane-Kettering in New York City in the USA. She plans to return to London upon completion of the fellowship and has a position at LHSC. Dr. Julie Richard is working at PEPP and has a weekly Adult Asperger's Clinic and Dr. Leslie Ritchie is working at student health at UWO. Congratulations to the five individuals, and best wishes as you all embark on your careers.

The 2010/11 academic year saw the implementation of the second year (ie for the PGY-3 year) of the new Royal College training requirements for psychiatry residents. As a reminder, the PGY-2 year consists of six blocks of general adult outpatient psychiatry and six blocks of general adult inpatient psychiatry. The PGY-2 years takes place entirely at LHSC-Victoria campus and is coordinated by Dr. Reiss. The PGY-3 year consists of six blocks of Child and Adolescent psychiatry and six blocks of Geriatric Psychiatry. The Child and Adolescent psychiatry objectives require that 2 weeks of developmental disorders be completed during the 6 blocks. Also, the Child and Adolescent objectives require that the 6 blocks be broken into two, three-block periods. The two, three block periods must take place in different settings.

Dr. Diane Eastwood continues to coordinate the severe and persistent mental illness longitudinal experience, which takes place in the PGY-2 year. This experience has received very positive feed back from the resident group.

Work was also completed on the PGY-4 year, which will start July 2011. The PGY-4 year will consist of 3 blocks of Consultation Liaison psychiatry, 6 blocks of complex care and 3 block of shared/collaborative care. Beginning next fall, Dr Jennifer Barr will coordinate the PGY 4 and 5 years.

The evaluation portfolio, initiated this year, was focused on the management of issues related to problems with Resident performance in rotations and the emergency room, as well as with organization of the practice OSCE exams in preparation for the Royal College examinations in May 2011. There were three separate competency related issues which were dealt with successfully by the evaluation lead and other involved faculty meeting with the Residents to review the reported problems and work on a plan for remediation and reevaluation. Two sets of OSCE exams were completed. The first was for all residents from PGY2 to 5 and the second set offered only to PGY 5. The transition from the former STACER model to the current within-rotation model was reviewed with Residents, Faculty and the PGE committee and thus far the transition appears to be happening without difficulty. More specific deadlines will be set for next year so that there is no last-minute scramble for PGY5s to complete the STACER exams.

The transition to the new PGE director has lead to a significant increase in the expectations for this portfolio. These changes will be implemented over the next year. Dr MacDonald will be stepping down and Dr. Karin Kerfoot will take over as portfolio lead with a committee of individuals to help manage the increased workload.

The Scholarly Activities Portfolio comprises the didactic teaching curriculum modules, interviewing skills, resident research, journal clubs and bioethics teaching.

#### Didactic Teaching:

Any concerns that residents may have had with the curriculum were referred to the Scholarly Activities Portfolio Lead and addressed. Some issues regarding resident placements in the PGY2 year were addressed along with Drs Macdonald and Reiss. There have been some minor changes to the teaching curriculum and the objectives were brought up-to-date. In general, the feedback from residents regarding didactic teaching was positive. The resident representatives on the executive commented that the residents are satisfied that the new RTC structure (5 faculty, 2 residents) is working well.

#### Interviewing Skills:

Dr Barr co-ordinated this important part of junior resident teaching. Senior residents were involved in providing tutoring. Objectives for each session were co-ordinated with readings from the prescribed textbook.

#### Resident Research

Guidelines for a resident research project to be completed in the PGY3 year have been drawn up. During this reporting period, Dr. Kamini Vasudev volunteered to co-ordinate and facilitate this process. She has put together a list of potential projects with supervisors for the residents starting in 2011 to choose from. Some of the current PGY1 residents volunteered to conduct research projects to pilot this new initiative. With effect from September 2011, research meetings (faculty and residents), chaired by Dr K. Vasudev will take place on the 2nd Thursday of each month from 4-15 - 5-45 pm.

#### Journal Club

Dr Haslam facilitated journal club on the third Wednesday of each month from 5 -7 pm, indicating that he wished to discontinue his role at the end of June 2011. The residents continued to express their satisfaction with Dr Haslam's input, but there was a problem with attendance. Following requests to move this activity to a Thursday to improve

attendance, journal club will take place on the 4th Thursday of each month from 4-15 pm to 5-30 pm with effect from September 2011. Dr Akshya Vasudev has kindly agreed to take over facilitation of Journal Club.

Dr. Patty Hall will be the postgraduate director for the Child and Adolescent psychiatry PGY-6 year. She has worked tirelessly at the PSQ, establishing rotations, writing objectives and evaluations. Congratulations to Dr. Hall and all those working with her to move this process forward. Hopefully, the first PGY-6 in Child and Adolescent psychiatry will start July 1, 2012.

Drs. Isserlin and Oates worked on the didactic curriculum for the PGY 2 and 4 years. There were some changes to curriculum and objectives were brought up to date. Drs. Hall and Doering worked on the PGY 3 curriculum. In general, the resident group has received the didactic lectures very positively.

Dr. Barr continues to coordinate this important aspect of resident training. A curriculum, including objectives has been established for each year of training. Senior residents were involved in providing teaching to junior residents.

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The psychotherapy committee continued to work at developing the psychotherapy curriculum in accordance with the new Royal College training guidelines. The PGY-2 year didactic curriculum consists of supportive therapy and psychodynamic psychotherapy. The 2010/11 academic year saw the introduction of the PGY-3 curriculum. Dr. Judith Francis coordinated the CBT didactic teaching and coordinated all residents finding supervisors to complete CBT with a patient. Dr. Volker Hocke taught the behaviour therapy module. In addition there was a module on motivational interviewing.

The psychotherapy committee recommended that the department purchase access to PTeR. The FMC supported this recommendation and the department did purchase access to PTeR in spring 2011. PTER is an on line psychotherapy learning resource that was developed by McMaster University. There are modules for each of the different psychotherapy modules.

Dr. Volker Hocke will be taking over as the postgraduate director September 1, 2011. Best wishes to Dr. Hocke in this role. Also Dr. Leanna Isserlin will take over as PGY-1 coordinator on Oct 1, 2011, best wishes to her in this new role.



## CaRMS & PGY1, Portfolio Report



"With the human resource need for psychiatrists recognized as second highest for all specialties, we must focus on attracting our best medical school graduates into the rewarding field of psychiatry."

Dr. Chris Tidd

**CaRMS 2010 – 2011** CaRMS provided a new challenge for our program. There was a 30% drop in CMG candidates applying to psychiatry nationally, in first iteration at UWO. Because of this, we had to utilize second iteration for the first time in 3 years. This is in contrast to having fully matched all positions the previous two years in the first iteration.

Despite the low overall numbers for the 2010-2011 year, the residents and faculty contributed many hours to make the first iteration interview days a well run event, for which we've had ongoing positive comments. Our department is lucky to have so many faculty and residents take the time to meet potential candidates during the interview days, as well as take time to interview candidates. It is a source of pride that our program values a fair, transparent, and detailed interview process.

Despite the low numbers in the first iteration, our resident leadership and faculty came together to screen and interview candidates in the second iteration to successfully fill our 6 positions. Early indications for the 2011–2012 CaRMS show that the applicant numbers have once again returned to the previous years. We anticipate full success in the first iteration for the 2011–2012 year. The ongoing success of our CaRMS match can be directly attributed to the dedication of the CaRMS working group committee. For 2010 – 2011 year that committee included Dr. Chris Tidd (Chair), Dr. Michelle Ngo (Chief Resident), Dr. Jennifer Tiffney (Resident President), Dr. Mohammad Elfakani, (Junior Resident) Dr. Caroline Armstrong (Junior Resident), and special thanks to Eva Adams, our PGE administrator.

**PGY–1 2010–2011** The PGY–1 group consisted of; Joy Abramson, Caroline Armstrong, Mohammed Elfakani, Rebecca Tudhope, Michael Mak, Ajay Prakash and Maryna Mammoliti. This group successfully completed their PGY–1 training having rotated through core psychiatry blocks and, core medicine, neurology, and pediatric rotations. We are proud to say that there were no problems along the way and are all continuing their training as PGY–2 residents, currently doing their core adult psychiatry rotations.

As a side note, we have solidified our partnership with off service rotations for our residents who now utilize endocrinology and neuro radiology as part of their core training. We are also collaborative partners with emergency medicine and neurology.having their residents rotate in our CEPS/ER rotation on C/L.

We look forward to our ongoing positive rapport with both services.

## Undergraduate Education



"A positive undergraduate experience in psychiatry is the best recruitment tool we have."

Dr. Raj Harricharan  
Director, UGE  
Department of Psychiatry

We have continued to make changes in the **Undergraduate Program** in order to keep up with the curriculum demands. Dr. Mark Watling has taken over as the manager for Medicine 5207 which is the Psychiatry and Behavioural Sciences course in second year of medical school. The evaluation for this course continues to be in the above average range. I would like to acknowledge the hard work of the week captains for this course which include Dr. Sandra Northcott, Dr. Mark Watling, Dr. Sreelatha Varapravan and Dr. Heidi Haensel. I would like to convey my sincere thanks to all the faculty members who participated in the lectures, seminars, small group sessions and the PCCIA course. Starting in July 2011, there were some changes in the week captains with Drs. Varapravan, Ritchie and Richard coming on board, and Dr. Mark Watling agreeing to continue as the manager of the course.

Dr. Carla Garcia coordinated the Patient Centred Clinical Methods Course and, again, has done a phenomenal job. She has worked very closely with the simulated patient program at Schulich to enrich the experience of the medical students. Small group teaching remains crucial to the success of the Undergraduate Program and, again, I would like to sincerely thank the faculty members for rising to the occasion in volunteering to lead the small group sessions.

Dr. Sandra Northcott took over as the Clerkship Director and the Assistant Undergraduate Director, and has done a marvelous job in organizing the clerkship schedule. We organized a workshop for clerkship a supervisor which was appreciated by all those who attended. The feedback has been excellent. Dr. Northcott tweaked the seminar series for clerks and continued to push to make these seminars more case-based in their approach. The seminar series continues to be teleconferenced to our various SWOMEN sites with Windsor offering an equivalent series. The evaluations of the clerkship seminars have been above average. The residents' teaching seminars on Tuesday afternoons continue to be a very highly rated invaluable teaching activity for the students. A sincere thanks to the senior residents, Dr. Zev Grynspan and Dr. Leslie Ritchie for their significant contribution to these activities. As well, the teaching of the clinical clerks in the Emergency room, mainly by the residents, continues to be highly rated and very much appreciated by the students. Many of them endorse this experiential learning and feel that they may have learned more during on-call than in other teaching activities.

Dr. Ben Loveday took over the coordination of the clerkship experience in Child and Adolescent Psychiatry. The rotations seem to have been more organized with fewer cancellations and improved overall rating.

Starting in July 2011, the clerkship rotation is going to be rearranged yet again into 3-two week blocks of electives and selectives. Child Psychiatry will become one of the rotations for selectives.

The clerkship rotation in Windsor continues to enjoy excellent rating. Dr. Akinlosotu has been ably assisted by Dr. Doey in maintaining the standard of the rotation. The feedbacks from students have been consistently above average for that rotation.

The SWOMEN site continues to play an integral role in the training of our clerks and Dr. Ranjith Chandrasena has been doing a great job in terms of coordinating the clerkship psychiatry rotations in the SWOMEN sites. In the last year we had clerks in Chatham, Sarnia and Stratford most of the time.

The clerkship rotation in psychiatry continues to evolve, and this last year a lot of preparatory work had to be done to prepare for the new setup of the six-week rotation. The rotation will be consistent with the changes in all areas of medicine and hopefully it will help to broaden the students' clinical experience.

In the course of the new academic year, I will be stepping down as the Undergraduate Director and transitioning leadership to Dr. Sandra Northcott, who has been the Assistant Director for the last year, and had already taken on a significant leadership role within the undergraduate program. I would like to thank all those many faculty members who have supported me support over the years, as the Undergraduate Director and also for their participation in the various aspects of undergraduate teaching. I hope that in the years to come, that you continue to show the same level of eagerness to participate.

## Continuing Professional Development

in the Department of Psychiatry

July 1, 2010 – June 30, 2011



**Dr. Varinder Dua**

Joint leadership for Continuing Education in the Department of Psychiatry has promoted a vision for a collaborative learning environment that incorporates inter-professional



**Joel Lamoure**

This report highlights the educational activities that have been pursued in the Department of Psychiatry between July 2010 and June 2011. It focuses on the monthly Continuing Medical Education (CME) events, the weekly Coordinated Professional Development (CPD) activity at the hospitals, Special CME events, and collaborations with the UWO CME Office, and with the Canadian Psychiatric Association.

In keeping with a vision of collaboration and partnership, we as a team have endeavored to promote inter-professionalism and ensure that the learning activities provided are evidence-based, balanced and as removed from bias as possible. The programs offered through the Department are approved for Section 1 Accredited Group CME learning activities accredited by the Royal College of Physicians and Surgeons of Canada (RCPSC) for MOCOMP credits. As per the requirements governing CME, we have adhered to the RCPSC guidelines in providing these activities. Participants at our CME events are always encouraged to further individual learning profiles and learning objectives (PLP) to its Fellows (in addition to Section 1 and 2) so that they can enhance their learning portfolio and provide evidence based care to their patients.

While we work openly, transparently and co-operatively with the pharmaceutical industry, we have continued to ensure that we are guided by the AAMC and UWO guidelines related to interaction with industry, The Canadian Medical Association Code of Ethics and the CMA policy “Physicians and the Pharmaceutical Industry” and the RCPSC guidelines that dictate the relationship of pharmaceutical industry to the Universities and Institutes of Learning.

As usual, the Department of Psychiatry and the RMHC Co-ordinated CME budget has self-funded many of these programs using a cost recovery mechanism and model. In some instances, we were successful in obtaining educational grants from the pharmaceutical industry that were in keeping with these guidelines.

In an effort to promote this co-operative venture, in October 2010, we had a meeting with close to a dozen pharmaceutical industry representatives. We discussed the current AAMC and SACME guidelines with them. We balanced these with the Pharmaceutical Manufacturer Representatives Canada guidelines that the representatives are bound to along with Research and Development guidelines.

The Continuing Education Program is guided by two advisory panels, the CME Executive Committee (Department CME) and the CPD Committee (Co-ordinated CME). Both of these advisory groups are constituted of physicians and allied health professionals who provide input into the current CME programs and direction regarding future programs.

The monthly CME programs are being televideo-conferenced to 14 sites and the weekly CPD Program activities are televideo-conferenced to 7 sites. We continue to utilize the Pre-test and Post-test tool for the participants in our monthly CME activity for individuals to self-evaluate their knowledge base prior to the CME activity. The participants are also encouraged to use the content of the CME for triggering Personal Learning Projects and to utilize this knowledge in managing their patients. As well they are encouraged to use the CME credits earned from this activity toward their personal learning projects

In closing to reflect on this year, we have been very lucky to collaborate with a strong support and administrative team. At RMHC: Joanne Chapman and Sandra Dunbar. For UWO, Glenda Shiletto has retired after many wonderful years of service and Suzy Mendes through the year and after retirement has been instrumental in keeping the educational events lined up. Thanks to this wonderful team, the support of the Psychiatry Executive and Dr Sandra Fisman as Chief/Chair.

### **Continuing Professional Development (CPD) September 2010 - June 2011**

#### **Monthly Departmental Rounds**

**Thursday, September 9, 2010**

**Moderator: Dr. Rob Nicolson**

#### **Developmental Disabilities Division and the Autism Centre of Excellence “The Psychopharmacological Treatment of Behaviour Problems in Children and Adolescents with Intellectual / Developmental Disabilities”**

Presented by: Dr. Michael Aman,

Professor of Psychology & Psychiatry at Ohio State University

Resident Case Presentation: Dr. Michelle Ngo, PGY4

**Thursday, October 14, 2010**

**Moderator: Dr. Mary McDonagh**

#### **Psychiatry and Cardiovascular Illness “Heart Failure treatment: Are there Risks?”**

Presenter: Dr. Malcolm J. Arnold

Professor of Medicine, University of Western Ontario

Resident Case Presentation: Dr. Rebecca King, PGY5

#### **“Myocardial Infarction and Chronic Stress: Case discussion and analysis”**

**Thursday, November 25, 2010**

**Moderator: Dr. Abraham Rudnick**

**Arts and Mental Health**

**“The Aesthetic Experience: Using the arts of the production and dissemination of knowledge in child and youth mental health”**

Presenter: Dr. Katherine M. Boydell  
Associate Professor University of Toronto

Resident Case Presentation: Dr. Arany Shanmugalingam, PGY2

**“Literature review: Art therapies in mental health care”**

**Thursday, December 9, 2010**

**Moderator: Dr. Peter Williamson**

**The Final Common Pathways of Psychiatric Illness**

**“Neuropsychiatric disorders, the default mode network, and the nature of the Human brain”**

Presenter: Dr. Peter Williamson,  
Tanna Schulich Chair in Neuroscience and Mental Health

Resident Case Presentation: Dr. Vadim Beletsky, PGY2

**“Post stroke mood disorder”**

**Thursday, January 13, 2011**

**Moderator: Dr. Abraham Rudnick**

**“Ethics and Law: Tensions in everyday mental health and addictions work”**

Presenter: Barbara Russell, University of Toronto

Case Presentation: Kyoko Wada, Research Fellow

**“The relation between ethics and law as pertaining to health care, with a focus on consent”**

**Thursday, February 10, 2011**

**Moderator; Dr. Rahul Manchanda**

**“Early Intervention for Psychosis: Separating Faith and Fact”**

Presenter: - Dr. Ross Norman,  
Associate Professor, University of Western Ontario

**“The PEPP Squad: Rooting for Recovery in early Psychosis”**

Presenters: PEPP team

Resident Case Presentation: Dr. Jonathan tan, PGY2

**Thursday, March 10, 2011**

**Moderator: Dr. Jeffrey Reiss**

**Schizophrenia: Evolutionary Perspectives**

**“Is Schizophrenia an Evolved Trait?”**

Presenter: Dr. Joseph Polimeni  
Associate Professor, University of Manitoba

Resident Case Presentation: Dr. JC Lai, PGY2



**Thursday, April 14, 2011**

**Moderator: Dr. Ruth Lanius**

**“Neuropsychological aspects of PTSD: Limbic-neocortical interactions”**

Presenter: Dr. Asaf Gilboa

Department of Psychology, University of Toronto

Resident Case Presentation: Dr. Rachana Bodani, PGY2

**Thursday, May 12, 2011**

**Moderator: Amer Burhan**

**“Cognitive changes with aging Schizophrenia”**

Presenter: Dr. Tarek K. Rajji

Assistant Professor, University of Toronto

Resident Case Presentation: Dr. Juliana Li, PGY4

**Thursday, June 9, 2011**

**Moderator: Dr. Naveed Rizvi**

**“ADHD and Psychiatric Co-morbidity in Children – Long Term Management and Outcomes”**

Presenter: Dr. Alice Charach

Assistant Professor, University of Toronto

Case Presentation: Dr. Joel Shapiro, PGY4

**“Comorbid ADHD and Anxiety: A case presentation  
and review of diagnosis and assessment”**

**PSYCHIATRY JOURNAL CLUB**

**Tuesday, October 19, 2010**

**Windermere Manor, Grand Hall**

**“From population-based data to personalized care for patients with bipolar disorder”**

Presenter: Dr. Gary Sachs

Associate Professor, Harvard Medical School

Supported by: Astra Zeneca

**LEARNING AFTER FIVE**

**(Previously titled the Psychiatry Journal Club)**

**Thursday, March 31, 2011**

**Moderator: Dr. Mary McDonagh**

**RMHC-London , Private dining room 1**

**“Physical Health in Mental Health: Whose Job is it?”**

Presenters: Dr. Kamini Vasudev

Joel Lamoure

Supported by: Mylan Pharmaceuticals and GenCan

**Thursday, April 19, 2011**

**Moderator: Varinder Dua**

**RMHC-London, Board Room A**

**“Gait and Cognition in Older People: the Collusion of Two Giants”**

Presenter: Dr. Manuel Montero-Odasso

**Tuesday, May 24, 2011**

**Moderator: Dr. Varinder Dua**

**RMHC-London , Private dining room 1**

**“To Use or Not to Use: Antidepressants in Bipolar Depression?”**

Presenter: Dr. Corina Velehorsch, Assistant Professor, University of Western Ontario

Supported by: Pfizer Canada

**Tuesday, June 21, 2011**

**Moderator: Joel Lamoure**

**RMHC-London , Private dining room 1**

**“Treatment Resistant Depression: Evidence for Psychopharmacotherapy”**

Presenter: - Dr. Siva Devarajan

Supported by: Janssen Pharmaceutical Companies

### **Weekly Co-Ordinated CPD Monday Rounds**

The Coordinated CME/CPD Program includes Regional Mental Health Care London and St. Thomas-St. Joseph's Health Care London and the Mental Health Care Program-London Health Sciences Centre. During this year, we continue to use televideo conferencing to provide the program to participating sites of RMHC and LHSC.

As well, we have trialed and tested external speakers from distant sites, i.e. Dr. Peter Selby presenting, *“Smoking Cessation and the Seriously Mentally Ill”* from CAMH and Dr. Brian Baker presenting, *“Mind and Heart Update: Focus on treating patients with depression and coronary artery disease”* from Toronto Western Hospital within our program parameters. This allowed a distance concept. The participants attending March 7<sup>th</sup>, 2011 event, *“Your Relationship with Industry: What you need to know”* from the host site of RMHC London, tested the use of audio response technology for pre and post questions. This same program was subsequently developed into an on-line module for physicians.

<b>Date</b>	<b>Speakers</b>	<b>Presentations</b>
Sep 13. 2010	Dr. Peter Selby	Smoking Cessation and the Seriously Mentally Ill (Televideo from CAMH)
Sep 20. 2010	Dr. Richard O'Reilly	The Rise and Fall of the Insane Asylum
Sep 27. 2010	Mr. Bill Hill; Ms. Kathy Quayle	How the Circus Vanished
Sep 28. 2010	Dr. Varinder Dua; Dr. Richard O'Reilly	Mental Health Legislation in Ontario ( <i>Physician Only</i> )
Oct 04. 2010	Ms. Christina Seely	Interdisciplinary Obesity Management: Principles to Practice
Oct 18. 2010	Spiritual Care Team	Collaborative Care of the Human Spirit

Date	Speakers	Presentations
Nov 01. 2010	Prof. JB Orange	Enhancing Communication with Individuals with Alzheimer's Disease
Nov 08. 2010	Dr. Greg McCarthy	The Concurrent Disorder Program at RMHC: A review of progress towards an integrated model of Health Care Delivery ( <i>Rehab Rounds</i> )
Nov 15. 2010	Dr. Sandy Simpson	Psychotic illness, violence and service responses: lessons from the last 20 years
Nov 22. 2010	Dr. Jose Mejia	Malingering and Exaggeration of Symptoms as a Means to Cope with Adversity
Nov 29. 2010	Dr. Isabelle Martin	Binge Eating Disorder
Dec 13. 2010	Dr. David Dozois	Cognitive Vulnerability to Depression and the Efficacy of Cognitive Therapy
Jan 10. 2011	Dr. Marnin Heisel	Searching for Meaning in Later Life: Enhancing Psychological Resiliency and Decreasing Suicide Risk among Older Adults
Jan 17. 2011	Dr. Ofer Agid	The Role of Long Acting Injectables in the Treatment of Schizophrenia.
Jan 24. 2011	Dr. Leslie Ritchie; Dr. Zev Grynspan	A Critique of the Biopsychosocial Model: Finding Methodological Consciousness in Canadian
Jan 31. 2011	Dr. Gertrud Hocke	Ethics in Mental Health: Balance between autonomy and beneficence ( <i>Bioethics Rounds</i> )
Feb 07. 2011	Dr. Mustaq Khan	Scenes of Disturbing Behaviour
Feb 14. 2011	Dr. Simon Chiu	Emerging Novel Intervention Options in Alcohol and Cocaine Addiction Disorders
Feb 28. 2011	Dr. J.D. Spence	What's New in Stroke Prevention
Mar 07. 2011	Dr. Sandra Fisman; Dr. Tom Freeman	Your Relationship with Industry: What you need to know
Mar 21. 2011	Dr. Hollam Sutandar	The Role of Religion and Spirituality in Psychosis
Mar 28. 2011	Dr. Amresh Srivastava	Current Understanding of Suicide Behavior in Clinical Settings
Apr 04. 2011	Ms. Carrie Howard; Ms. Kris Pettit	"Discharge Liaison Team: Bridging the Gap" ( <i>Rehab Rounds</i> )
Apr 11. 2011	Dr. Mark Reddington	Pathological Hoarding
Apr 18. 2011	Dr. David LeMarquand; Mr. Tony O'Regan; Rev. Stephen Yeo; Mr. Brett Batten	Shifting Gears: Experiencing Power in Mental Health ( <i>Bioethics Rounds</i> )
May 02. 2011	Ms. Sherry Frizzell; Ms. Julie Franklin; Ms. Kamini Kalia; Mr. Tony O'Regan; Ms. Jennifer Doherty	Patient Safety Initiatives - RNAO Best Practices and Nursing Skills Development Team Initiatives
May 11. 2011	Dr. Mark . Willenbring - Keynote: RMHC Annual Research Half Day	"Transforming Treatment for Addiction: How Science Can Inform Practice"

Date	Speakers	Presentations
May 16. 2011	Ms. Loesje Hols Tucker; Mr. Allan Workman	Who Am I? ( <i>Complex Case Rounds</i> )
May 30. 2011	Dr. Julie Richard; Mr. Alex Azores	Chasing the Worry Dragon: Anxiety Disorders and Opioid Dependence - A Case Report
Jun 06. 2011	Dr. Brian Baker	Mind and Heart Update: Focus on treating patients with depression and coronary artery disease (Televideo from TWH)
Jun 13. 2011	Dr. Amer Burhan	The Royal College Maintenance of Certification (MOC) program: What has changed and what support is needed to make the change meaningful? ( <i>Physician Only</i> )

**Annual Medicine Update in Psychiatry** is another collaborative venture with the CME office at Schulich since its inception in 2004. Dr. Dua has been involved with this program since 2004 and Joel Lamoure since 2005. The 2011 Annual Medicine Update Day in Psychiatry was held on April 2, 2011, chaired by Dr. Dua. This year's focus was on "Cardiovascular and Psychiatry". Various disciplines including nursing, pharmacy, social work and physicians were in attendance. This event was accredited by the Royal College for MAINPRO and MOCOMP credits. Evaluations were extremely positive amongst the 40-odd participants, with an overall 90% rating for all speakers, for the second year in a row enjoying consistently high audience ratings across the disciplines attending.

Planning for the 9<sup>th</sup> Annual Medicine Update for Psychiatry was held throughout August-November 2011, with a focus on "The realm of Mental Health and Uro-gyneacology and Reproduction" and will take place on March 31, 2012.

#### **Special Event:**

##### **Symposium – October 29, 2010, Lamplighter Inn**

##### **MOOD DISORDERS: Evidence Supporting Treatment Modalities**

In partnership with the Department of Psychiatry and the Coordinated CPD Program, a one-day symposium featuring international and local experts in the field of evidence-based treatment modalities for mood disorders along with local investigators' work translating research into practice. The target audience: mental health professionals (psychiatrists, family physicians, nurses, psychologists, social workers, occupational therapists, pharmacists, residents) across Ontario.

##### The program included two plenary presentations:

- Dr. L. Trevor Young: 'Setting the Balance: Mitochondrial Function and Energy Metabolism in Patients with Mood Disorders'
- Dr. Ellen Frank: 'State of the Art in Psychotherapy for Mood Disorders'

##### Four translational research presentations:

- Dr. Verinder Sharma: 'Bipolar Disorder in Women: Assessment and Treatment'
- Dr. Amer Burhan: 'TMS and Mood Disorders'
- Dr. Elizabeth Osuch: 'Early Intervention'
- Dr. Derek Mitchell: 'Cognitive Neuroscience Investigations of Emotional Responding and Regulation: Implications for Psychiatric Disorders'

#### Four concurrent workshops:

- Dr. Paula Ravitz: 'Interpersonal Psychotherapy'
- Dr. Ian Nicholson: 'Cognitive and Behavioural Therapies for Treatment Resistant Depression'
- Dr. Siva Devarajan: 'Treatment Resistant Depression: Evidence for Psychopharmacology'
- Dr. Rick Csiernik: 'Addiction and Mood Disorders'

#### Planning committee members were:

- Psychiatrists: Dr. Varinder Dua (Chair), Dr. Jeffrey Reiss, Dr. Sandra Fisman (Ex-Officio)
- Basic Scientist: Dr. Walter Rushlow
- Family Physician: Dr. M. McDonagh;
- Nursing/Allied Health Professionals: Ms. Beth Muia (Nurse), Mr. Joel Lamoure (Pharmacist), Dr. Beth Mitchell (Psychologist)
- CPD Assistants: Ms. Glenda Shilleto (Department of Psychiatry) & Ms. Sandra Dunbar (Regional Mental Health Care)

We had a full house at 177 registered attendees with 43% providing feedback by completing evaluation forms. Overall, the response was very positive and the suggestions for 'what we could do better' were helpful in planning the fall 2011 symposium – Addictions: A Global Perspective.

#### **Council of Psychiatric Continuing Education (COPCE), CPA**

We continue our partnership and collaboration with CE directors from other Departments of Psychiatry across the country. On October 14, 2011 at the Annual CPA meeting in Vancouver, Dr. Dua will be doing a joint workshop presentation with three other CE Directors on "Maximizing your Use of the New Royal College Maintenance of Certification Program"

#### **UWO CME/CPD Office**

We have continued to work collaboratively with the Office of Continuing Professional Development (CPD), University of Western Ontario under the leadership of Dr. Jatinder Takhar, Associate Dean CME. As part of that venture, both Mr. Joel Lamoure and Dr. Varinder Dua are also members of the Advisory Committee on Continuing Medical Education (ACCME) Committee that is chaired by Mr. Lamoure until July 1/2011. Dr. Carla Garcia succeeds Mr. Lamoure as Committee Chair.

We are also currently members of the Continuous Professional Development (CPD) Group that is disseminating CE modules developed by the CEPD Office of the University of Toronto.

#### **2010-2011 CME Awards**

Best CME Presentation by a Junior Resident	Dr. Jonathan Tan
Best CME Presentation by a Senior Resident	Dr. Joel Shapiro
Best CME Presentation by Junior Faculty	no award
Best CME Presentation by Senior Faculty	Dr. Peter Williamson

## **Criteria for Awards**

Highest overall average peer and audience evaluations from live site. This is based on the evaluation tools that cover the Guidelines and principles of adult and postgraduate education and in the following areas:

- Overall Presentation Effectiveness
- Content Relevance
- Used Effective Teaching Methods
- Met the Stated Learning Objectives
- Enhanced my Knowledge
- Satisfied my Expectations
- Conveyed Info that Applied to my Practice
- Allocated at least 25% of the Time for Interaction
- Free from Commercial or other Bias

The essence of Lifelong Learning and Educational Scholarship is the basis for this 2010-2011 annual report. We endeavor to foster this spirit and quest for Lifelong learning and educational scholarship in our attendees and consumers.



# Research in the Department of Psychiatry

Dr. Ross M.G. Norman  
Professor and Director of Research

Appended to this report is a listing of research publications, conference presentations and funding received by members of our Department. It demonstrates the continued growth in research productivity. The entire Department has reason to feel pride in our growing stature as an academic centre for advancement of research in mental health. Congratulations to all members of the Department who have contributed to these accomplishments.

Two Department of Psychiatry seed funding competitions were held during the past 2010-2011 academic year. The following applications were successful:

1. P. Frewen, R. Lanius and R. Neufeld. "Psychological assessment of symptom causal relations."
2. Srivastava. "A pilot study of brain-derived neurotropic factor (BDNF) in medicated and unmedicated first-episode psychosis: A collaborative project between RMHC, LHRI and Elgin CMHA."
3. P. Subramanian, A. Burhan and V. Sharma. "Transcranial direct current stimulation for the treatment of post-partum depression."
4. J. Carr. "Remediating learning skills for school in early psychosis: The Cognitively Oriented Skills Training (COST) group."

One of the priorities of this seed-funding competition is to support initial stage of research that could eventually receive external funding. In this respect, it is particularly noteworthy that the application by Dr. Frewen and colleagues helped support a research program which has subsequently received funding through CIHR.

The Annual Academic Research Day for the Department of Psychiatry was held on June 16<sup>th</sup> at Somerville House. The agenda included 18 oral presentations and 24 posters by faculty and students affiliated with the Department. A wide variety of research topics and methods were presented, covering a spectrum of work from molecular aspects of psychopharmacology to psychiatry as a dramatic art form. I personally am particularly delighted by the increasing amount of research being presented that has direct implications for improving patient care and service delivery.

The main academic lecture was delivered by Dr. Mary Seeman, Professor Emerita at the University of Toronto. Dr. Seeman's topic was "Lessons Learned from Gender Clues," which reflected her long-term interest in, and contributions to, our understanding of gender differences in psychopathology. Her lecture provided an inspiring demonstration of how a perceptive and thoughtful researcher can use a variety of frameworks from basic biological processes, to anthropological models, to advance knowledge. It was a delight to have Professor Seeman as our guest for the day.

Several awards were presented at the Research Day. Two awards for best presentation by a trainee were generously provided by Astra-Zeneca through the offices of Ramu Seshan. The winners of these awards were Dr. Tomas Ros for his presentation, "Self-

regulation of functional MRI connectivity via EEG neurofeedback”, and Ms. Thida Han for her talk entitled, “Does the isolation of critical facial features modulate activity of empathy-related brain regions in individuals with psychopathic traits?” (co-authors Drs. R. Neufeld and D. Mitchell). The award for best presentation by a junior faculty member went to Dr. Kamini Vasudev for her presentation on, “Haematological effects of Valproate in psychiatric patients: Risk factors.” Best poster was “Networks of functional brain activation differentiate unipolar major depressive disorder and bipolar disorders,” by Dr. Kristen Ford (co-authors Drs. R. Neufeld, D. Mitchell, J. Théberge, P. Williamson and E. Osuch).

We have recently amalgamated the previous Faculty Research Interest Group and Resident Research Interest Group into one Department of Psychiatry Research Interest Group, which meets late afternoon on the second Thursday of each month. So far this group has heard presentations by Drs. Kamini Vasudev, Rob Nicolson, Akshya Vasudev and Jeff Reiss on their research interests. This forum provides an excellent opportunity for research to generate open discussion of their research activities and for other members of the Department to learn about the wide range of investigations being carried out by their colleagues.

I wish to thank the members of the Department of Psychiatry Research Committee for their efforts during the past year. The members are Drs. Jeff Carter, Deb Corring, Marnin Heisel, Rahul Manchanda, Peter Williamson, Ross Norman, Richard O'Reilly, Abraham Rudnick, Walter Rushlow, Peter Williamson and Habiba Nayyer (resident rep).

This is my last report as Director of Research. The past ten years that I have filled this role have been interesting, challenging and (on the whole) enjoyable. I want to pay particular tribute to Jacqueline DiMattia for the truly outstanding job she has done in providing administrative support to research. The job would have been much more difficult without Jacqueline's organizational skills and energy.

## **RESEARCH PROFILES**



**Dr. Paul Frewen**

Dr. Paul Frewen is a Clinical Psychologist and Basic Science member of the Neuropsychiatry Division. He has authored or co-authored 10 peer-reviewed papers since joining the department in September 2008 on the topics of the neural correlates of self-referential processing, social emotions, alexithymia, and psychological assessment of trauma-related symptoms. He received the *President's New Researcher Award* from the *Canadian Psychological Association* in June 2010. He is currently funded by an *Ontario Mental Health Foundation New Investigator Fellowship*. His research is being conducted in collaboration with several Department faculty, most notably Dr. Ruth Lanius, Harris-Woodman Chair in Neuropsychiatry.

Dr. Frewen currently also has a clinical appointment as a Psychologist with the LHSC Traumatic Stress Service. He is interested in supervising residents in the conduct of research associated with his clinical work with the Traumatic Stress Service, including program evaluation projects.

Dr. Frewen continues to be actively engaged in teaching and supervisory activities. He teaches the Psychometrics Module for the PGY2 lecture series, and co-teaches the Research Module for the PGY3 lecture series. He is also the instructor for introductory clinical psychology courses, and is currently supervising honors theses and independent studies, within the UWO Department of Psychology.



Dr. Marnin Heisel

Dr. Marnin Heisel is a Clinical Psychologist, an Assistant Professor in the Department of Psychiatry with a cross-appointment in the Department of Epidemiology and Biostatistics in the Schulich School of Medicine and Dentistry, and a Scientist with the Lawson Health Research Institute. His research focuses on the prevention of suicide and enhancement of psychological resiliency and well-being among older adults.

Early in his training he became aware of a worrisome paradox; older adults in Canada and worldwide have high rates of suicide, and yet relatively little research attention had been devoted to this significant public health issue. He thus embarked on a program of research to develop and evaluate measures for assessing suicide risk and resiliency and interventions to reduce risk and enhance healthy aging. This program of research has contributed novel measures of suicide ideation and of meaning in life and evaluated existing assessment tools, and modified and initially tested a course of individual Interpersonal Psychotherapy for older adults at-risk for suicide. Related research aims to enhance understanding of the potential overlap and distinction between older adults contemplating suicide and those wishing to hasten death in the context of severe or life-threatening illness. Given the often lengthy delay between dissemination of empirical findings and their inclusion in standard healthcare practice, he is increasingly evaluating approaches for facilitating the timely translation of research findings into standard care. Associated knowledge translation initiatives include co-leading the development and evaluation of late-life suicide prevention knowledge translation tools and delivering presentations and training workshops to clinician, social service, and community groups.



#### Dr. Ruth Lanius

Dr. Ruth Lanius is the Harris -Woodman Chair in Psyche and Soma and has had a very active year regarding all aspects of Chair. Her research projects have continued to focus on problems of brain resting state networks, emotion regulation and the intergenerational transmission of trauma in patients suffering from complex posttraumatic stress disorder. The research projects are currently being supported by grants from the Canadian Institutes of Health Research, the Workplace Safety and Insurance Board as well as from the Department of National Defense. Dr. Lanius is also part of a 5,000,000 multisite grant, including sites at Harvard, Emory and New York University, funded by NIMH to investigate various new treatment strategies for PTSD. Dr. Lanius and her team have published a lead article proposing an emotion regulation model of PTSD in the *American Journal of Psychiatry* in June of this year. Dr. Lanius has also continued to be a panel member of the Biobehavior Mechanisms of Emotion, Stress and Health Study Section at NIMH and the Behavioral Sciences B committee at CIHR. In addition, Dr. Lanius is an ad hoc reviewer for many journals, including the *Archives of General Psychiatry*, the *American Journal of Psychiatry* and *Biological Psychiatry*.

Dr. Lanius also continues to be active in teaching. Dr. Judith Daniels, a postdoctoral fellow from Germany and Dr Tomas Ros, a postdoctoral fellow from London, England are researching various aspects of social emotion processing and the effects of neurofeedback on neural functioning in PTSD. In addition, Rosi Kluetsch from Germany completed her M.SC. with Dr. Lanius' group. Moreover, Dr. Lanius has continued to give lectures and workshops within Canada and internationally. These lectures have focused on the underlying mechanisms of trauma disorders as well as on the treatment of complex trauma PTSD with a focus on the connection between psyche and soma.

Dr. Lanius has recently edited a book with Eric Vermetten and Clare Pain entitled "The Impact of Early Life Trauma on Health and Disease: The Hidden Epidemic" published by Cambridge University Press.

### Dr. Derek Mitchell

Dr. Derek Mitchell is a Basic Scientist in the Department of Psychiatry and in a tenure track position in Anatomy and Cell Biology at SSM&D. He is also cross-appointed in the Department of Psychology. Dr. Mitchell's research is principally aimed at determining how dissociable neural systems integrate emotion with cognition and behaviour. The work is designed to provide fundamental knowledge about the functional neuroanatomy behind the experience and control of emotions such as fear, anxiety, and anger. The approach is also used to elucidate the pathophysiology of a range of psychiatric disorders from psychopathy, which features impoverished affective responding and poor behavioural controls, to mood and anxiety disorders, which feature a failure to manage or modulate emotional responding. In more recent work, Dr. Mitchell and collaborators are using the tools of cognitive neuroscience to evaluate the potential beneficial effects of novel pharmacological and behavioural interventions on brain function in psychiatric and neurodegenerative disorders. The clinical populations currently under study include unipolar and bipolar mood disorder, frontotemporal dementia, acquired brain injury, and conduct disorder. The techniques include functional neuroimaging, psychophysics, and neuropsychological methods. The lab is funded by Ontario Mental Health Foundation, Social Sciences and Humanities Research Council, and the Natural Sciences and Engineering Research Council.



In addition to the research, Dr. Mitchell continues to be active in teaching. He is involved in teaching Biometrics Module for PGY 3-4 Research Methods Seminar Series, ACB 931 Neuroscience for the Rehabilitative Sciences, ACB550 "Integrative topics in neuroscience", as well as in the Neuroscience Graduate Program. He is also involved in the supervision of several graduate and undergraduate students through multiple programs at Western.



Dr. Rob Nicolson

Dr. Rob Nicolson is an endowed Chair in Autism Studies and heads the Autism Centre of Excellence at the University of Western Ontario.

Dr Nicolson has continued to develop his research program in developmental disabilities through the Autism Centre of Excellence and the Developmental Disabilities Division in the Department of Psychiatry, SSM&D at The University of Western Ontario. His work has been in journals including *Psychiatry Research: Neuroimaging*, *American Journal of Human Genetics*, and *Human Brain Mapping*. Work done by Dr. Nicolson and his group has been presented at the International Meeting for Autism Research, at the annual meeting of the International Society for Magnetic Resonance in Medicine and the Canadian Academy of Child and Adolescent Psychiatry. He has received research funding for his brain imaging research in autism from the Canadian Institutes for Health Research (CIHR) and also as co-investigator from CIHR, examining health outcomes in children with severe and profound mental retardation. In addition he is a co-investigator on a research training in autism grant from the Canadian Institutes for Health Research for \$1,950,000.

Part of his responsibilities and a mandate for the Centre of Excellence has been to develop a graduate program at Western in collaboration with other faculties to graduate therapists in Applied Behavioral Analysis and Intensive Behavioral Intervention for young children with Autism Spectrum Disorders. In addition he encourages and supports research by students.





Dr. Ross Norman

Dr. Ross Norman is a Professor and the Director of Research in the Department of Psychiatry and a Professor in the Department of Epidemiology and Biostatistics, Schulich School of Medicine & Dentistry. He is also cross-appointed as a Professor in the Department of Psychology at UWO. His research interests are primarily the prediction and improvement of outcomes for first episode psychotic disorders. For the past ten years, foci of his research have been determinants of treatment delay, the relationship between delay in obtaining treatment and later level of recovery as well as the impact of the nature of follow-up care on patient outcomes. Additional issues addressed in Dr. Norman's

research are the relationship between various indices of outcome for psychosis, such as symptoms and psychosocial functioning and development of measures of the critical components for early intervention programs. This work has clear implications for service delivery to individuals suffering from psychotic disorders.

The search for modifiable predictors of outcome for individuals with psychotic disorders (such as social support) has also led Dr. Norman to develop of a research program concerning the "stigma" of mental illness – in particular its possible effect on individual acceptance of treatment and on treatment outcomes, as well as a better understanding of the basis for public stigmatization. He and his colleagues have been especially interested in the importance of social norms, personal values and implicit versus explicit social evaluative responses in determining and changing attitudinal and behavioral responses to those with serious mental illness.

### Dr. Elizabeth A. Osuch

This year Dr. Osuch, her collaborator Dr. Evelyn Vingilis, and the clinical/clinical-research team at FEMAP implemented the health care delivery system project investigating the challenges and benefits of a self-referral and unique assessment strategy for youth with mood and/or anxiety complaints. This project was funded by the Ministry of Health Innovation Fund Award (AFP). The first manuscript related to this research is in preparation and several more have been defined, given the data that has already been collected from this study.



Dr. Osuch's project investigating the functional brain changes associated with non-suicidal self-injury (NSSI) in youth has been completed (funded by the Lawson Intramural Research Fund) and Dr. Osuch, Jo Anne DePace and Bradley Ford presented those data at the conference of the International Society for the Study of Self-Injury (ISSS) in Chicago in June 2010. Several manuscripts are in preparation related to both the pain-processing and the standard reward-processing paradigms that were used.

Funding from the Ontario Mental Health Association for the imaging study on the effects of marijuana and depression in youth has continued. This project has been expanded to include depressed youth on a stable dose of one antidepressant in order to increase enrollment.

Dr. Osuch and Dr. Jean Theberge (Department of Medical Biophysics) are one of three runners up in the Lawson Innovation Prize competition and will be completing the third and final round of that competition on September 10<sup>th</sup> 2010. Their project involves creating and commercializing an imaging and imaging-analysis technique to accurately differentiate youth with depression as having either unipolar depression (Major Depressive Disorder) or Bipolar Disorder. Collaborators include our own Peter Williamson, Jim (Richard) Neufeld, Derek Mitchell, Kathy Macdonald, Kristen Ford (postdoctoral fellow), and Vince Calhoun from the University of New Mexico.

Work continues to progress on Dr. Osuch's qualitative research project with ex-postdoctoral fellow Robyn Bluhm (now at Old Dominion University in the USA) on issues of stigma for youth with mental health concerns. This project had been funded by the "Transdisciplinary Understanding and Training on Research Primary Health care (TUTOR-PHC)" program.

Dr. Osuch has given several public talks including one entitled, "Youth and Marijuana: Is it as Harmless as we Like to Think?" in May for the Family Support Network of London and Area. The talk was attended by and subsequently covered by the CBC radio. Dr. Osuch received several invitations to repeat the talk at other venues, the next of which will be sponsored by the London Public Library in late September.

### Dr. Nagalingam Rajakumar

Dr. Rajakumar is a Basic Scientist in the Department of Psychiatry and tenured in the Department of Anatomy and Cell Biology at Schulich School of Medicine & Dentistry (SSM&D). He has developed an animal model for Schizophrenia and more recently for Autism which are contributing to the understanding of basic pathophysiological mechanisms at a molecular level, in these disorders.

Dr. Rajakumar collaborates with scientists in the departments of Psychiatry, Psychology, Biophysics and Anatomy & Cell Biology, and has served on advisory committees for 14 graduate students in the Neuroscience and Anatomy & Cell Biology graduate programs.

Dr. Rajakumar has also participated in teaching dental students, undergraduate and graduate students in the Neuroscience graduate program and in the Department of Anatomy & Cell Biology. In addition, he has served as a senator in the University Senate, as a member and vice-chair of the Animal Use Committee at Western, and as an elected member of the Program Committee of the Neuroscience Graduate Program. He also served on the Research Committee in the Department of Anatomy & Cell Biology, and the interview panel for medical admission at SSM&D.



Dr. Abraham Rudnick

Dr. Abraham Rudnick is the Chair of the academic Division of Social & Rural Psychiatry. In addition to his MD, he has a Ph.D. in Bioethics and is cross-appointed to the Department of Philosophy at the University of Western Ontario (Western). He is a Certified Psychiatric Rehabilitation Practitioner (CPRP) by the United States Psychiatric Rehabilitation Association (USPRA), and he is the Director of Bioethics in the Department of Psychiatry at Western and the Head of the Canadian Unit of the International Network of the UNESCO Chair in Bioethics.

Dr. Rudnick's research interests primarily involve psychiatric rehabilitation and bioethics. In relation to psychiatric rehabilitation, for the past ten years or so, he has focused on the issue of personal coping and environmental support for people with schizophrenia. This work has resulted in the delineation of some adaptive coping strategies in relation to recovery from schizophrenia and in the development of novel approaches to psychiatric rehabilitation, such as the combination of supported education and supported employment for skilled occupations and the characterization of psychiatric leisure rehabilitation. As part of that, he has recently led a CAREMH-funded study on combining supported college education with supported employment for people with mental illness.

In relation to bioethics, for the past ten years or so, he has examined challenges to standard bioethics approaches, and solutions to improve on them. This work has resulted in the development of the framework of dialogical bioethics, which addresses active participation and communication as central parts of bioethics, and in the exploration of special (personal and environmental) challenges that people with mental illnesses may have in relation to playing an active role in bioethical decision making pertaining to them. As part of that, he is leading a CIHR-funded empirical study on dialogical bioethics.

### Dr. Walter Rushlow

Dr. Walter Rushlow is a Basic Scientist in the Department of Psychiatry and a tenured faculty member in Anatomy and Cell Biology at SSM&D. His research work in Schizophrenia has significant implications for treatment of this disorder.

Schizophrenia is a devastating mental disorder that affects more than 300,000 Canadians and carries an economic burden in excess of six billion dollars annually. The symptoms of schizophrenia are characterized by thought disorders, hallucinations and delusions (positive symptoms) as well as social and emotional withdrawal and blunted affect (negative symptoms). In simplest terms, most individuals suffering from schizophrenia are severely handicapped and often unable to cope in society. Interpersonal skills and the ability to reason are limited and schizophrenic patients are usually unable to obtain or hold competitive full-time employment. Schizophrenic symptoms can appear at anytime during life but generally commence in the late teens or early twenties and require life-long treatment to control. The relatively early onset, typical of the disease is particularly devastating for family and friends of schizophrenic patients as they watch young, promising individuals succumb to the affliction. Though research efforts continue, little is known about the cause or progression of schizophrenia and therefore a cure for the disease is not likely in the foreseeable future. However, as our understanding of schizophrenia continues to evolve, the potential for development of new pharmaceuticals to better control the symptoms of the disorder improves.

Research conducted in Dr. Rushlow's laboratory is focused on identifying the molecular mechanisms responsible for the manifestation of schizophrenic symptoms in order to facilitate the development of more potent pharmaceuticals for the treatment of the disorder. To accomplish this task, animal models are used to test whether specific proteins implicated in schizophrenia may be responsible for the symptoms of the disorder. Currently, Dr. Rushlow is testing a protein called glycogen synthase kinase-3 (GSK-3) to see if it may be responsible for some of the positive symptoms of schizophrenia using a well-characterized and accepted animal model of schizophrenia for testing and comparison. Although several of the symptoms of schizophrenia, such as hallucinations and delusions, are uniquely human, they are thought to be the consequence of altered dopamine and glutamate transmission. In animals, similar disruptions cause changes in behavior, such as locomotor activity, that can be tested and recorded. Therefore, measuring changes in locomotor activity may determine if manipulating GSK-3 or proteins that regulate GSK-3 can reverse or mimic locomotor changes seen in the amphetamine sensitization model of schizophrenia. In addition, Dr. Rushlow and his colleagues are examining the proteins levels and localization of GSK-3, and several key proteins associated with GSK-3, to determine if they correlate with behaviour. This approach will help identify proteins that are important for the symptoms of schizophrenia and may represent potential new targets for pharmaceutical intervention.

Dr. Peter Williamson

Dr. Williamson holds the Tanna Schulich Chair in Neuroscience and Mental Health and is a professor in the Department of Psychiatry at the University of Western Ontario with



cross-appointments at the Lawson Health Research Institute and the Robarts Research Institute. After completing his research training at the University of Toronto, he established the Neuropsychiatry Research Group which was the first in the world to measure glutamatergic metabolites in schizophrenia with magnetic resonance spectroscopy in collaboration with Dr. Dick Drost and Dr. Ravi Menon. The group has grown to include vertically integrated research programs in schizophrenia, posttraumatic stress disorders, mood and anxiety disorders and autism.

He is the author of *Mind, Brain, and Schizophrenia* published by Oxford University Press in 2006 which was referred to by the *New England Journal of Medicine* as 'compulsory reading for clinicians' and *The Human Illnesses: Neuropsychiatric Disorders and the Nature of*

*the Human Brain* with Dr. John Allman, an evolutionary biologist at the California Institute of Technology, published by Oxford University Press in 2011. He has published more than 100 peer-reviewed and invited papers in journals such as the *Archives of General Psychiatry* and the *American Journal of Psychiatry* supported by grants from the *Canadian Institutes of Health Research*, the *National Institute of Mental Health* in the United States and several other agencies. He is past Chair of the Behavioural Sciences B Committee at the *Canadian Institutes of Health Research* and has served at the Centre for Scientific Review, *National Institute of Health*.



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**Norman RMG**. The role of CBT in treatment of psychotic disorders. (Invited speaker). *International Conference on Schizophrenia (IConS-IV) of SCARF*. Chennai, India. October 22-24, 2010.

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**Rudnick A.** Cognitive remediation for inpatients with schizophrenia or schizoaffective disorder using "smart" technology in a simulated apartment: A feasibility and exploratory study. *ICOST 2011, 9th International Conference on Smart Homes and Health Telematics*. Montreal, QC. June 20-22, 2011.

**Rudnick A.** Supported reporting of lived experience: Facilitating writing/publication of people in recovery. *US Psychiatric Rehabilitation Association Annual Conference*. Boston, MA. June 13-16, 2011.

**Rudnick A.** Supported education and supported employment for college students with mental health challenges. *US Psychiatric Rehabilitation Association Annual Conference*. Boston, MA. June 13-16, 2011.

**Rudnick A.** Using smart technology in mental health to facilitate successful discharge. *Met-e-Tel, International e-Health, Telemedicine and Health ICT Forum for Education, Networking, and Business*. G.D. of Luxembourg, Luxembourg. April 6-8, 2011.

**Rudnick A.** Interspecialty bioethics educations and practice in relation to informed consent for anesthesia for surgical procedures. *International Conference on Bioethics Education: Contents, Methods, Trends. Never the twain shall meet?* Zefat, Israel. May 2-5, 2011.

**Rudnick A.** Qualitative research and psychiatry: An epistemological analysis. *Association for the Advancement of Philosophy and Psychiatry Annual Conference*. New Orleans, LA. May 22-23, 2011.

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**Sharma V**. Diagnostic and management of soft bipolarity in the postpartum period. *4th World Congress on Women's Mental Health*. Madrid, Spain. March 16-19, 2011.

**Sharma V** and Xie B. Validation of the Mood Disorder Questionnaire for bipolar postpartum depression. *4th World Congress on Women's Mental Health*. Madrid, Spain. March 16-19, 2011.

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**Stewart SL.** Children and youth quality of life measure. *The interRAI Network of Excellence in Mental Health (iNEMH) Seminar*. Helsinki, Finland. October, 2010.

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**Suchý M**, **Menon R**, Li AX, Hudson RHE, Gati J and **Bartha R**. A dysprosium-based PARACEST agent for in-vivo temperature MRI: Dy<sup>3+</sup>-DOTAM-Gly-Lys. *ISMRM 19th Annual Meeting & Exhibition*. Montreal, QC. May 7-12, 2011.

**Suchý M**, Milne M, Li AX, Hudson RHE and **Bartha R**. Synthesis and evaluation of PARACEST MRI contrast agents containing an amino acid arginine. *ISMRM 19th Annual Meeting & Exhibition*. Montreal, QC. May 7-12, 2011.

Swan-Merrison J, **Carr J**, Hassall L, Lynch J, **Manchanda R** and **Norman R**. "Peer Power". Utilizing peer volunteers in first episode psychosis. *7th International Conference on Early Psychosis*. Amsterdam, Netherlands. November 29-December 1, 2010. [Abstracted in *Early Intervention in Psychiatry* 4(S1):156].

Ta R, Li AX, **Suchý M**, Hudson RHE, Pasternak S and **Bartha R**. A novel gadolinium-based contrast agent for cathepsin-D. *ISMRM 19th Annual Meeting & Exhibition*. Montreal, QC. May 7-12, 2011.

Ta R, **Suchý M**, Li AX, Hudson RHE, Pasternak S and **Bartha R**. In-vitro and in-vivo study of a magnetic resonance imaging (MRI)/fluorescent contrast agent for detection in Alzheimer's disease. *13th International Conference on Alzheimer's Disease (ICAD)*. Honolulu, Hawaii. July 10-15, 2010.

Ta R, **Suchý M**, Li AX, Hudson RHE, Pasternak S and **Bartha R**. In-vitro cellular uptake of a magnetic resonance imaging (MRI)/fluorescent contrast agent for detection of cathepsin-D activity in Alzheimer's Disease. *13th International Conference on Alzheimer's Disease (ICAD)*. Honolulu, Hawaii. 2010.

Taylor R, **Théberge J** and **Williamson PC**. Stimulating human brain glutamate fMRS at 7.0 to determine minimum SNR requirements. *International Society for Magnetic Resonance in Medicine Meeting*. Stockholm, Sweden. 2010.

Taylor R, **Williamson P** and **Théberge J**. The dependence of metabolite correlations on the external magnetic field strength. *Imaging Network of Ontario Symposium, 9th Annual Conference*. Toronto, ON. Jan 31 - Feb. 1, 2011.

Taylor R, **Williamson P** and **Théberge J**. The dependence of metabolite correlations on the external magnetic field strength. *ISMRM*. Montreal, QC. May 2011.

Theall-Honey L, Cuthbert R and **Stewart SL**. Investigating sex differences among children and youth referred to tertiary mental health outpatient clinics. *Canadian Psychological Association Conference*. Toronto, ON. June, 2011.

Theall-Honey L, **Stewart SL**, Marshman ME and Watson C. Mental health characteristics of youth with problematic sexual behaviours. *The International Association for Forensic Mental Health Services Conference*. Barcelona, Spain. June, 2011.

**Van Bussel L**. Population to the Person Considerations of Policy, Research and Practice. *ORC sponsored workshop: Supporting Older Adults in their Homes and Communities: Promoting Knowledge Exchange Around Health Aging and Aging at Home*. London, ON. October 22, 2010.

**Van Bussel L** and Jarvie A. Navigating the labyrinth for optimal care: Study conclusions. *Canadian Coalition of Senior's Mental Health Conference*. Halifax, NS. September 27-28, 2010.

**Van Bussel L**, Jarvie A, **Black E** and Ross T. Developing strategies to reduce the incidence of adverse safety events in senior's mental health care setting. *Canadian Coalition of Senior's Mental Health Conference*. Halifax, NS. September 27-28, 2010.

**Vasudev A**. Cardiovascular autonomic changes in late life depression. *10th International College of Geriatric Psychoneuropharmacology Meeting*. Athens, Greece. September 15-18, 2010.

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Wallace H, Berman H and **Ray SL**. Resilience in the face of adversity: Women who have experienced intimate partner violence and homelessness. *All Our Sisters: First Canadian Forum on Housing and Safe Communities for Women*. London, ON. May, 2011.

Wallace MG, Campbell DW, Modirrousta M, Sareen J, Polimeni JO, McKeen NA and **Reiss JP**. So funny I forgot to laugh: The neural correlates of cognitive humour processing. *Society for Neuroscience Conference*. San Diego, CA. November 13-17, 2010.

Wrath A, Allen S and **Frewen PA**. Assessment of perceived symptom causal relations: Application to depression, anxiety, posttraumatic stress and high risk behaviours including self-harm. *Canadian Psychological Association*. Toronto, ON. 2011. [Abstracted in *Canadian Psychology*].

#### EXTERNAL GRANT FUNDING:

**Bartha R** (PI). "Detection of PARACEST agents in biological systems". *Natural Sciences and Engineering Research Council of Canada*. Total Funding: \$78,000. Grant Term: 2008-2013.

**Bartha R** (PI); Pasternak SH and Hudson RHE (Co-Invs). "Magnetic resonance PARACEST imaging of in-vivo protease activity". *Canadian Institutes of Health Research*. Total Funding: \$497,450. Grant Term: 2010-2014.

Bauman GN, Lee TY, Fenster A, Peters T, Chin J (Co-PIs) and **Bartha R** (Co-Inv). "CIHR Team in image-guided prostate cancer management". *Canadian Institutes of Health Research*. Total Funding: \$4,067,604. Grant Term: 2008-2013.

Berman H, Damant D, Johnson H, Thurston W, Gonick M, Richardson C (Co-PIs); Asbourne L, Donelle LF, **Forchuk C**, Grzyb AF, Jaffe PG, Jiwani Y, Lapierre S, Lessard G, Molgat M, Nixon KL, Oudshoorn A, Samuels-Dennis JA and Tutty LM (Co-Invs). "Promoting health through collaborative engagement with youth in Canada: Overcoming, resisting and preventing structural violence". *Canadian Institutes of Health Research*. Total Funding: \$1,371,511. Grant Term: 2011-2015.

Berman H (PI); Donelle LF, **Forchuk C**, Oudshoorn A, Jaffe PG and Grzyb A (Co-Invs). "The influence of structural and systemic violence on the health of children and adolescents: Intersections among gender, race and class". *Canadian Institutes of Health Research*. Total Funding: \$1,300,000. Grant Term: 2011-2014.

Berman H (PI) and **Forchuk C** (Co-Inv). "The influence of structural and systemic violence on the health of children and adolescents: Intersections among gender, race and class". *Canadian Institutes of Health Research*. Total Funding: \$10,000. Grant Term: 2010-2011.

Berman HA (PI); Mason RA, Classen CC, **Lanius RA**, Macarthur-Evans MK, Rodger S and Ross LE (Co-Invs). "Embodied trauma: The influence of past trauma on women during the transition to motherhood". *Canadian Institutes of Health Research*. Total Funding: \$207,704. Grant Term: 2008-2011.

Campbell DW (PI); **Reiss JP** and Sareen J (Co-Invs). "Military personnel with PTSD: Functional MRI brain imaging, psychotherapy, and emotional responses". *Canadian Institutes of Health Research, Regional Partnership Program*. Total Funding: \$138,876. Grant Term: 2008-2010.

Carson JJ (PI); Drost DJ, Dubois C, **Lanius RA**, St. Lawrence K, Legros A, Pavlosky WF, Prato FS, Stodilka RZ, **Théberge J**, Thomas AW and Thompson RT (Co-Invs). "Investigation of the effects of closed-head injury using neurophysiological, neuroimaging and neurocognitive assessment". *Department of National Defence*. Total Funding: \$559,000. Grant Term: 2007-2010.

**Carter J** (PI). "Opportunity knocking for children with high risk for fire and police involvement". *Ontario Centre of Excellence for Child and Youth Mental Health*. Total Funding: \$14,990.96. Grant Term: 2011-2012.

Cechetto DFL, Arany EJ, **Bartha R**, Hachinski VC, Lee TY, McDonald RJ, Munoz DG, Naus CC, Whitehead SN, Wojtowicz JM (Co-PIs); Hill DJ and Hou ST (Co-Invs). "CIHR team in vascular cognitive impairment: Animal models of comorbidity". *Canadian Institutes of Health Research*. Total Funding: \$1,476,286. Grant Term: 2010-2014.

Cloitre M (PI); **Lanius RA** (Site-PI); Herman JP and Kaslow N (Co-Invs). "Implementation of an evidence based PTSD treatment in public sector settings". *National Institutes of Mental Health*. Total Funding: \$3,090,352 US. Grant Term: 2011-2015.

**Corring D** and **Rudnick A** (Co-PIs). "Mental health smart technology: Supporting patients in our community". *Nicholaas & Regina Veenboer Foundation*. Total Funding: \$25,000. Grant Term: 2011-2012.

**Dozois DJA** (PI). "Origins and dynamics of excessive reassurance seeking". *Social Sciences and Humanities Research Council of Canada*. Total Funding: \$129,500. Grant Term: 2011-2014.

Duggal N (PI) and **Bartha R** (Co-Inv). "Metabolic and functional correlates in spinal cord compression measured by magnetic resonance imaging". *Canadian Institutes of Health Research*. Total Funding: \$325,808. Grant Term: 2011-2015.

Fenster A (PI); Reilly R, **Menon R**, Henkelman M, Jaffray D and Burns P (Co-Invs). "One millimeter cancer challenge (1mmCC)". *Ontario Institute for Cancer Research (OICR)*. Total Funding: \$263,149. Grant Term: 2008-2012.

Forbes D (PI); **Gibson M**, Markle-Reid M and Morgan D (Co-Invs). "Developing dementia care decisions through knowledge exchange in rural settings". *Alzheimer Society of Canada (ASC), Canadian Nurses Foundation, CIHR Institute on Aging, and the Parkinson Society of Canada Research Program on Care Practice in Cognitive Impairment in Aging*. Total Funding: \$192,063. Grant Term: 2010-2012.

**Forchuk C** (PI); Giustizia A, Annett N, Connoy M, Csiernik R, Diaz K, Edwards B, Elkin D, **Fisman S**, Godin M, Jeng M, Lavery K, **Mitchell B**, **Norman RMG**, Ouseley S, **Rudnick A** and Wilk P (Co-Invs). "Youth Matters in London: Mental health, addiction and homelessness." *Social Sciences and Humanities Research Council of Canada and Mental Health Commission of Canada*. Total Funding: \$500,000. Grant Term: 2009-2010.

**Forchuk C** (PI); Perry S, Godin M, Lahey P, Ouseley S, Edwards B, Jeng M, Hall P, **Rudnick A**, Speechley M, Cohen BM and Hoch JS (Co-Invs). "Poverty and mental health: Issues, challenges and solutions". *Ontario Mental Health Foundation*. Total Funding: \$150,000. Grant Term: 2010-2011.

**Forchuk C** (PI); Perry S, Godin M, Lahey P, Ouseley S, Edwards B, Jeng M, Hall P, **Rudnick A**, Speechley M, Cohen BM and Hoch JS (Co-Invs). "Promoting health through collaborative engagement with youth in Canada: Overcoming, resisting, and preventing structural violence". *Social Sciences and Humanities Research Council of Canada*. Total Funding: \$1,000,000. Grant Term: 2011-2014.

**Forchuk C** (PI) and **Rudnick A** (Co-Inv). "Evaluation of CARES: A street level strategy to address homelessness, addictions, and mental health". *Canadian Institute of Health Research*. Total Funding: \$7,500. Grant Term: 2009-2011.

**Forchuk C** (PI) and **Rudnick A** (Co-Inv). "CURA Letter of Intent: Poverty and mental health". *Social Sciences and Humanities Research Council of Canada*. Total Funding: \$20,000. Grant Term: 2010-2011.

**Forchuk C** (PI) and **Rudnick A** (Co-Inv). "Poverty and mental health: Issues, challenges and solutions". *Ontario Mental Health Foundation*. Total Funding: \$150,000. Grant Term: 2010-2012.

**Forchuk C** (PI) and **Rudnick A** (Co-Inv). "CURA Award, Poverty and Social Exclusion". *Social Sciences and Humanities Research Council of Canada*. Total Funding: \$1,000,000. Grant Term: 2011-2016.

**Frewen P** (PI) and **Lanius RA** (Mentor). "Neuroimaging studies of self-perception in women with major depression with and without posttraumatic stress disorder". *Ontario Mental Health Foundation, New Investigator Fellowship*. Total Funding: \$104,346. Grant Term: 2009-2012.

**Frewen P** (PI); **Lanius RA**, **Neufeld RW** and **Reiss JP** (Co-Invs). "Psychological assessment of symptom causal relations". *Canadian Institutes of Health Research*. Total Funding: \$178,153. Grant Term: 2011-2014.

Garg A (PI); Beyea M, Gandhi S, Gomes T, Hackam D, Juurlink D, Lam N, Mamdani M, McLachlan R, Minuk L, Paterson JM, **Reiss JP** and Weir M (Co-Invs). "Electrolyte disorders from common medications: Risk and mitigation". *Canadian Institutes of Health Research*. Total Funding: \$139,828. Grant Term: 2011-2012.

**Gibson M** (PI). "Development, evaluation and dissemination of a bilingual workshop for dementia care providers entitled: "Frailty, Dementia and Disasters: What Health Care Providers Need to Know". *Canadian Dementia Knowledge Translation Network, Alzheimer Society of Canada and Public Health Agency of Canada*. Total Funding: \$25,000. Grant Term: 2010-2011.



Goodale M (PI); **Bartha R**, Chronik BA, Culham J, J. D, Everling S, Gati J, Joanisse M, Kohler S, **Menon RS**, Morton B, Servos P and Vilis T (Co-Invs). "Centre for Brain and Mind Neuroimaging Facility". *Ontario Research Fund, Research Excellence Program*. Total Funding: \$2,278,500. Grant Term: 2006-2011.

**Gutmanis I** (PI); **Van Bussel E**, Speechley M, DeForge R, Ward-Griffin C and Horgan S (Co-Invs). "Exploring theatre-based knowledge exchange strategies". *Canadian Dementia Knowledge Translation Network & Alzheimer Society of Canada*. Total Funding: \$16,490. Grant Term: 2011.

Hayden E (PI) and **Dozois DJA** (Co-Inv). "Childhood temperamental vulnerability to internalizing psychopathology: Emotional and cognitive pathways". *Social Sciences and Humanities Research Council of Canada*. Total Funding: \$157,287. Grant Term: 2008-2011.

Hegadoren KM (PI), Coupland NJ, **Lanius RA** and Norris C (Co-Invs). "IPV as a model to assess impact of uncontrollable severe stress in women". *Canadian Institutes of Health Research*. Total Funding: \$108,007. Grant Term: 2005-2010.

**Heisel M** (PI). "Preventing suicide among older adults: Enhancing resiliency, reducing risk, and translating knowledge to practice". *Ontario Ministry of Research and Innovation Early Researcher Award*. Total Funding: \$190,000. Grant Term: 2009-2012.

**Heisel MJ** (PI). "Promoting psychological resiliency to late-life depression and suicide risk". *Canadian Institutes of Health Research*. Total Funding: \$300,000. Grant Term: 2007-2012.

**Heisel MJ** and Moore S (Co-PIs). "Canadian Coalition for Seniors' Mental Health: Suicide prevention in older adults knowledge translation project". *The Betty Havens Award for Knowledge Translation in Aging, Canadian Institutes of Health Research*. Total Funding: \$50,000. Grant Term: 2008-ongoing.

Helson L (PI); **Chiu SS**, Bureau Y, Lui E and Smith J (Co-Invs). "Phase I: Biodistribution of patented parenteral curcumin formulations; Phase II: Study of Lipocurc in Park 7 genetic model of Parkinson disease". *Michael J. Fox Foundation of Parkinson Disease*. Total Funding: \$86,720 US. Grant Term: 2009-2012.

Kauppi C (PI); Darren M, Sereau T, Garceau M, Garg R, Kinsman G, Lacassagne A, MacLean B, Montgomery P, Pallard H, Pastoret C, Kauppi C, Virchez G, Webster S, Bavington D, Srigley K, **Forchuk C**, Nicolson V, Bouchard P, Bussieres L, Poliquin L and Fitzmaurice K (Co-Invs). "Community-based responses to poverty, homelessness and migration in northern communities". *Social Sciences and Humanities Research Council of Canada*. Total Funding: \$1,000,000. Grant Term: 2010-2015.

**Lanius RA**, McKinnon M (Co-PIs); Hall G, Levine B and MacQueen G (Co-Invs). "Neural and behavioural correlates of autobiographical memory performance in patients with post-traumatic stress disorder and/or major depression following a motor vehicle crash". *Canadian Institutes of Health Research*. Total Funding: \$354,985. Grant Term: 2009-2013.

**Lanius RA**, McKinnon M (Co-PIs) and Lieutenant-Colonel R Jetly (Co-Inv). "Default connectivity as a predictor of posttraumatic stress disorder symptomatology and behavioural correlates of autobiographical memory in posttraumatic stress disorder". *Department of National Defence*. Total Funding: \$179,000. Grant Term: 2009-2011.

**Lanius RA** (PI) and **Neufeld RWJ** (Co-Inv). "Neural and behavioural correlates of autobiographical memory performance in patients with post-traumatic stress disorder and/or major depression following motor vehicle crash". *Canadian Institutes of Health Research*. Total Funding: \$345,985. Grant Term: 2009-2013.

Leung L-W (PI) and **Rajakumar N** (Co-Inv). "Hippocampal Theta Oscillations – generation and behaviour functions". *Canadian Institutes of Health Research*. Total Funding: \$91,000. Grant Term: 2007-2012.

Links PS (PI); Bender A, Farvolden P, Gnam W, **Lanius R**, O'Grady J, Strike C, Taback N, Bergmans Y and Murphy K (Co-Invs). "Prevention and treatment of acute psychological trauma: A case study in public transit." *Workplace Safety & Insurance Board*. Total Funding: \$446,070. Grant Term: 2007-2010.

Malla A, Joobar J (Co-PIs); **Norman RMG**, Schmitz N, Latimer EA, Abdel-Baki A, Brown T and Nordentoft M (Co-Invs). "A randomized controlled evaluation of extended specialized early intervention service versus regular care for management of early psychosis over the five year critical period". *Canadian Institutes of Health Research*. Total Funding: \$2,367,886. Grant Term: 2009-2015.

Malla AK, Brown TG, Joober J (Co-PIs); **Norman RMG**, Rochford R and Schmitz N (Co-Invs). "An evaluation of a targeted intervention for reducing delay in treatment of first episode of psychosis". *Canadian Institutes of Health Research*. Total Funding: \$284,720. Grant Term: 2006-2010.

Markle-Reid M (PI); Miles M, Mackinnon B, Pierce T, Browne G, Forbes D, George L, **Gibson M**, Hoch J and Thabane L (Co-Invs). "The effects and costs of a nurse-led, interprofessional mental health promotion intervention for depressed older adults using home support services". *Partnerships for Health Systems Improvement, Canadian Institutes of Health Research*. Total Funding: \$350,000. Grant Term: 2009-2012.

Martin R and **Rudnick A** (Co-PIs). "Humor-related interventions for mental health care service users: A feasibility and exploratory study". *Canadian Institute of Health Research, Consortium for Applied Research in Mental Health*. Total Funding: \$14,290. Grant Term: 2008-2011.

McCay E (PI); Romano DM, Langley J, Archie S, Cheng C, Conrad G, **Manchanda R**, Menezes N, Roy P, Tibbo P, Beanlands H, Dewa C, Rose D, Sanata Mina E, Schwind J, Zipursky R, Aiello A, Rehder M, Gehrs M, Robinson K, Jeffs L, **Norman R**, Hassall L and Fata M (Co-Invs). "Sustaining recovery: Supporting the transition from specialized services to primary care for at-risk youth who have experienced a first episode of psychosis". *Canadian Institutes of Health Research*. Total Funding: \$23,800. Grant Term: 2011-2012.

**Menon R** (PI) and **Bartha R** (Co-Invs). "Making a better brain: An Ontario neuroimaging consortium". *Ministry of Research and Innovation, Ontario Research Fund*. Total Funding: \$267,465. Grant Term: 2008-2013.

**Menon R** (PI); **Bartha R** and Hudson RH (Co-Invs). "PARACEST MRI Contrast agents for early cancer detection". *Ontario Institutes for Cancer Research*. Total Funding: \$321,482. Grant Term: 2008-2012.

**Menon RS** (PI). "Shedding light on the origin of BOLD". *Natural Sciences and Engineering Research Council of Canada*. Total Funding: \$225,000. Grant Term: 2007-2012.

**Menon RS** (PI); **Bartha R**, Chronik B, Lee T, Henkleman M, Sled J, Taylor M, Kassner A and Mikulis D (Co-Invs). "Making a better brain: An Ontario neuroimaging consortium". *Ontario Research Fund - Research Excellence Program*. Total Funding: \$267,465. Grant Term: 2007-2012.

**Menon RS, Bartha R** (Co-PIs); Chronik BA, Culham JC, Dekaban GA, Everling S, Foster P, Goodale MA, Huff MW and **Williamson PC** (Co-Invs). "Centre for functional and metabolic mapping". *Canadian Institutes of Health Research*. Total Funding: \$696,850. Grant Term: 2007-2012.

**Menon RS** (PI); Kremenutzky M and Lee D (Co-Invs). "Ultra-high field MRI measurements of tissue magnetic susceptibility in multiple sclerosis". *Canadian Institutes of Health Research*. Total Funding: \$912,635. Grant Term: 2011-2016.

Mitchell B (PI) and **Reiss JP** (Co-Inv). "Improvement of triage and care paths for mental health patients in the Emergency Department". *Ontario Ministry of Health, Pay-for-Results*. Total Funding: \$225,409. Grant Term: 2010-2011.

**Mitchell D** and **Neufeld RWJ** (Co-PIs). "Individual differences in distinct facets of empathy and the factors that influence their expression". *Social Sciences and Humanities Research Council of Canada*. Total Funding: \$98,414. Grant Term: 2009-2012.

**Mitchell DGV** (PI). "The functional neuroanatomy of emotional representation integration and control". *Natural Sciences and Engineering Research Council of Canada*. Total Funding: \$75,000. Grant Term: 2008-2013.

**Mitchell DGV** (PI); **Osuch E** and **Williams PC** (Co-Invs). "Modulating neural responding to positive and negative stimuli in untreated patients with major depression." *Ontario Mental Health Foundation*. Total Funding: \$105,000. Grant Term: 2008-2011.

Montero-Odasso M (PI); **Bartha R**, Borrie M, Speechley M and Hachinski V (Co-Invs). "Gait variability as predictor of cognitive decline and risk of falls in MCI. A Cohort Study". *Canadian Institutes of Health Research*. Total Funding: \$571,115. Grant Term: 2010-2015.

**Neufeld RJW** (PI). "Mathematical-theory driven research on stress and (decisional-control) coping: Toward general laws of individual differences". *Social Science and Humanities Research Council of Canada*. Total Funding: \$109,803. Grant Term: 2010-2013.

**Neufeld RWJ** (PI). "Coping with stress through decisional control: Investigating formal and quasi-formal models". *Social Sciences and Humanities Research Council of Canada*. Total Funding: \$83,645. Grant Term: 2007-2010.

**Nicolson R** (PI); **Drost D**, Gelman N, **Neufeld R**, **Théberge J** and **Williamson PC** (Co-Invs). "Neurobiological markers of aberrant connectivity in autism". *Canadian Institutes of Health Research*. Total Funding: \$383,967. Grant Term: 2008-2011.

**Norman R** (PI); Sorrentino R, **Manchanda R** and Malla A (Co-Invs). "Social psychological influences on the stigma of mental illness". *Social Sciences and Humanities Research Council of Canada*. Total Funding: \$81,300. Grant Term: 2007-2010.

**Norman RMG** (PI); Hampson E and Sorrentino R (Co-Invs). "The role of evaluative processes in reducing the stigma of mental illness". *Social Sciences and Humanities Research Council of Canada*. Total Funding: \$90,420. Grant Term: 2011-2014.

Orchard C, Ford-Gilboe M (Co-PIs); **Ray SL**, Donelle L, Dietrich P, Klinger L, Moosa T, Book S and Garcia A (Co-Invs). "Health zone nurse practitioner-led clinic wave 3". *Ministry of Health and Long-Term Care*. Total Funding: \$1,000,000. Grant Term: 2011-ongoing.

**Osuch E** (PI); **Mitchell D**, **Williamson P**, **Théberge J**, **Neufeld RWJ** and Kish S (Co-Invs). "Major depression and marijuana use in youth: Neurofunctional and cognitive interactions". *Ontario Mental Health Foundation*. Total Funding: \$150,000. Grant Term: 2009-2011.

Overend T (PI); **Bartha R**, Doherty TJ, Gati J, Lindsay R and Sawant A (Co-Invs). "Relationship between skeletal muscle strength and size in people with end-stage renal disease on haemodialysis". *The Kidney Foundation of Canada*. Total Funding: \$77,358. Grant Term: 2011-2013.

Prado M (PI); **Bartha R**, Martins V, Hajj G, Cashman N, Prado V, Ferguson S, Rylett J, **Menon R**, Strong M, MacDonald JF and Choy JWY (Co-Invs). "Upstream and downstream partners of the prion protein as therapeutic targets in prion targets in prion diseases and Alzheimer's disease". *Network of Centres of Excellence, PrioNet Canada*. Total Funding: \$600,000. Grant Term: 2011-2013.

Prato FS, Koropatnick J (Co-PIs); Chronik BD, Dhanvantari S., Lee T-Y, Rutt B, Thomas A, Thompson T, Urbain J-L and **Williamson PC** (Co-Invs). "Biomedical multimodal hybrid imaging". *Canadian Foundation for Innovation, Ontario Research Fund*. Total Funding: \$19,982,000. Grant Term: 2007-2012.

**Rajakumar N** (PI). "Role of the prefrontal cortex in stress responsiveness". *Natural Sciences and Engineering Research Council of Canada*. Total Funding: \$60,000. Grant Term: 2007-2012.

**Ray SL and Forchuk C** (Co-PIs). "The experience of homelessness among Canadian Forces and Allied Forces Veterans". *Homelessness Partnering Strategy (HPS); Homelessness Knowledge Development (HKD)*. Total Funding: \$90,715. Grant Term: 2010-2011.

Reid G, **Stewart S** (Co-PIs); Barwick M, **Carter J**, Evans B, Leschied A, **Neufeld RWJ**, St. Pierre J, Tobon J, Vingilis E and Zaric G (Co-Invs). "Predicting and understanding patterns of service utilization within children's mental health agencies". *Canadian Institutes of Health Research*. Total Funding: \$335,160. Grant Term: 2010-2014.

Reid G, **Stewart S** (Co-PIs); Barwick M, Cunningham C, **Carter J**, Evans B, Leschied A, **Neufeld RWJ**, St. Pierre J, Tobon J, Vingilis E and Zaric G (Co-Invs). "Exploring patterns of service utilization within children's mental health agencies". *Provincial Centre for Excellence for Child and Youth Mental Health at CHEO*. Total Funding: \$149,467. Grant Term: 2008-2010.

Reid GJ (PI); Tobon J, **Stewart SL**, Evans B, Brown JB and Goffin R (Co-Invs). "Continuity of care in children's mental health: Development of a measure (2 years)". *Canadian Institutes of Health Research*. Total Funding: \$195,482. Grant Term: 2010-2012.

**Rudnick A** (PI). "Dialogue in clinical neuroethics: An exploratory study of the impact of cognitive and other mental impairments on patient participation in ethics consultations". *Canadian Institute of Health Research*. Total Funding: \$98,898. Grant Term: 2008-2012.

**Rushlow W** (PI). "Regulation of locomotor activity by GSK-3 and GSK-3 regular proteins". *Ontario Mental Health Foundation*. Total Funding: \$150,000. Grant Term: 2010-2012.

**Rushlow W** (PI). "D<sub>2</sub> dopamine receptor regulation of dopamine and NMDA glutamate receptors". *Natural Sciences and Engineering Research Council of Canada*. Total Funding: \$180,000. Grant Term: 2006-2011.

**Sharma V** (PI). "Bipolar disorder: Screening, prevalence, and neonatal outcomes". *Ontario Mental Health Foundation*. Total Funding: \$289,800. Grant Term: 2010-2014.

**Singh S, O'Reilly R** and Scherer S (Co-PIs). "Gene discovery in schizophrenia using copy number variations (CNVs) in high-risk monozygotic (MZ) and dizygotic (DZ) twins". *Canadian Institutes of Health Research*. Total Funding: \$579,408. Grant Term: 2008-2011.



St. Lawrence K (PI); **Bartha R** and Wang D (Co-Invs). "Imaging cerebrovascular dysfunction and its role in age-related dementia". *Canadian Institutes of Health Research*. Total Funding: \$49,232. Grant Term: 2011-2012.

Stewart M (PI); Bainbridge L, Beaulieu MD, Brown JB, Bruge F, Dolovich L, **Dozois DJA**, Goudreau J, Haggerty J, Harris S, Kothari A, Lalonde RL, Martin-Misener R, McWilliam C, Ramsden V, Reid G, Thind A, Thomas-MacLean R, Vingilis E, Watt S and Wong S (Co-Invs). "Transdisciplinary understanding and training on research - primary health care (TUTOR-PHC)". *Canadian Institutes of Health Research Strategic Training Initiative in Health Research (STIHR) Programme*. Total Funding: \$1,950,000. Grant Term: 2009-2015.

**Stewart SL** (PI) and Marshman M (Co-Invs). "A specialized sexual behaviour team: Reduction of sexually inappropriate behaviours in children/youth with complex mental health and developmental difficulties". *Centre for Excellence in Children's Mental Health at CHEO*. Total Funding: \$34,989. Grant Term: 2010-2011.

Stodilka R, **Lanius RA** (Co-PIs) and **Neufeld RWJ** (Co-Inv). "Investigation of the effects of closed head injury using neurophysiological, neuroimaging and neurocognitive assessment". *Department of National Defense, Canada*. Total Funding: \$559,000. Grant Term: 2007-2010.

Swenson R (PI) and **Rudnick A** (Co-Inv). "Survey of mental health services in smaller communities in Northern Ontario". *Ontario Psychiatric Outreach Programs, Ontario Ministry of Health*. Total Funding: \$130,000. Grant Term: 2008-2011.

**Théberge J** (PI). "Unraveling the origins of glutamatergic magnetic resonance spectroscopy signals in the human brain". *Natural Sciences and Engineering Research Council of Canada - Discovery Grant*. Total Funding: \$140,000. Grant Term: 2011-2016.

Tibbo PG (PI); **Bartha R**, Bernier D, Beyea S, Good K, McAllindon D, Milliken H and Song X (Co-Invs). "Quantitative proton spectroscopy of white matter at 4 tesla in first episode psychosis. Part II: A clinical study". *Canadian Institutes of Health Research*. Total Funding: \$186,963. Grant Term: 2010-2013.

**Williamson P** (PI); **Osuch E**, **Drost DJ**, **Menon R**, **Théberge J**, **Neufeld RWJ**, **Rajakumar R** and Pavlosky W (Co-Invs). "Candidate neuronal circuits in schizophrenia". *Canadian Institutes of Health Research*. Total Funding: \$569,075. Grant Term: 2007-2012.

Woodbury M, **Chiu SS** (Co-PIs); Bureau Y, Summers K and **Cernovsky Z** (Co-Invs). "Curcumin, a putative neuronal Nitric Oxide Synthetase inhibitor (nNOS) with neuroprotective, antioxidant, anti-inflammatory properties, isolated from Turmeric Curcuma Longa as added-on strategy to antipsychotics in treating negative symptoms and neurocognitive impairment in schizophrenia. Pilot open-label study." *Stanley Medical Research Institute, MD*. Total Funding: \$96,020 US. Grant Term: 2007-2012.

Yatham LN (PI); **Sharma V** and Group C (Co-Inv). "Mood stabilizer plus antidepressant versus mood stabilizer plus placebo in the maintenance treatment of bipolar disorder". *Canadian Institutes of Health Research*. Total Funding: \$395,030. Grant Term: 2009-2013.

Zelcer S, Cautadella D (Co-PIs) and **Heisel M** (Co-Inv). "Development of the P-SCS: The Pediatric Supportive Care Scale". *C17 Research Network: Canadian Centers Battling Cancer and Blood Disorders in Children*. Total Funding: \$113,374. Grant Term: 2009-2011.

#### INTERNAL FUNDING:

Bureau Y (PI), **Chiu SS**, Johnston R and **Cernovsky Z** (Co-Invs). "Targeting G-protein coupled dopamine receptor (GPCR-DA) with L-proxy-L-leucyl-glycinamide (PLG) peptidomimetic: PAOPA in a transgenic model of Parkinson disease." *Lawson Health Research Institute, London*. Total Funding: \$14,000. Grant Term: 2011-2012.

Burneo J (PI); **Bartha R** and Leung A (Co-Invs.). "An exploratory study to assess the role of 7T structural and metabolic MR in the evaluation of patients with non-lesional temporal lobe epilepsy". *Dept. of Clinical Neurological Sciences, UWO, Internal Research Grant*. Total Funding: \$15,000. Grant Term: 2009-2011.

**Carr J** (PI). "Remediating learning skills for school in early psychosis: The Cognitively Oriented Skills Training (COST) group." *UWO Department of Psychiatry, Seed Funding*. Total Funding: \$7,492.95. Grant Term: 2011-2013.

**Corring D** (PI) and **Rudnick A** (Co-Inv). "Cognitive remediation for inpatients with schizophrenia or schizoaffective disorder using "smart" technology in a simulated apartment: A feasibility and exploratory study." *St. Joseph's Health Care Foundation*. Total Funding: \$17,000. Grant Term: 2008-2011.

**Eichstedt JA** (PI); **Haensel H**, **Collins KA**, **Phoenix E** and **Dozois DJA** (Co-Invs). "The management of childhood anxiety in clinical practice: A survey of mental health providers in Ontario". *Lawson Health Research Institute*. Total Funding: \$14,870. Grant Term: 2010-2012.

Finger E (PI) and **Bartha R** (Co-Inv). "Ultra-high field structural and metabolic imaging in frontotemporal dementias". *Dept. of Clinical Neurological Sciences, UWO, Internal Research Grant*. Total Funding: \$14,760. Grant Term: 2008-2013.

**Forchuk C** (PI); **Mitchell B** and **Reiss JP** (Co-Invs). "Preventing homelessness of mental health patients visiting emergency rooms". *UWO, SSHRC Internal Competition*. Total Funding: \$7,000. Grant Term: 2009-2011.

**Frewen P** (PI); **Dozois D** and **Lanius RA** (Co-Invs). "Pilot fMRI study of self-perception in healthy women". *UWO Department of Psychiatry Seed Funding*. Total Funding: \$5,000. Grant Term: 2008-2011.

**Frewen P** (PI); **Lanius RA** and **Neufeld RW** (Co-Invs). "Psychological assessment of symptom causal relations ". *UWO, Academic Development Fund*. Total Funding: \$7,500. Grant Term: 2010.

**Frewen PA** (PI); **Reiss JP**, Moran G, Evans B and **Lanius RA** (Co-Invs). "Validation of a computerized childhood attachment and relational trauma scale (CARTS) within an inpatient psychiatry setting". *UWO Department of Psychiatry Seed Funding*. Total Funding: \$5,000. Grant Term: 2009-2011.

**Gibson M** (PI). "Understanding long term care homes as communal living environments - A value added perspective in dementia care". *St. Joseph's Health Care Foundation*. Total Funding: \$9,000. Grant Term: 2010-2011.

**Heisel MJ** (PI). "Evaluating the measurement characteristics of the Geriatric Suicide Ideation Scale (GSIS) in an older inpatient sample.". *UWO Department of Psychiatry Seed Funding*. Total Funding: \$5000. Grant Term: 2006-2008 (study extended).

**Heisel MJ** (PI); Schreier G and Flett GL (Co-Invs). "Assessing psychological risk and resiliency factors associated with suicide ideation and the desire to hasten death among community-residing older adults". *Lawson Health Research Institute*. Total Funding: \$15,000. Grant Term: 2010-2012.

Jwely A and **Rudnick A** (Co-PIs). "Immigration and psychosis: A qualitative exploratory study". *St. Joseph's Health Care Foundation*. Total Funding: \$5,200. Grant Term: 2008-2011.

**Norman RMG** (PI); Gawronski B, Hampson EA and Sorrentino R (Co-Invs). "The role of evaluative processes in reducing the stigma of mental illness". *Academic Development Fund, UWO*. Total Funding: \$34,310. Grant Term: 2010-2011.

**Osuch E** (PI); **Théberge J**, Ford K and Calhoun V (Co-Invs). "Using hemodynamic brain networks to distinguish between unipolar depression and bipolar disorder in youth". *Lawson Health Research Institute*. Total Funding: \$15,000. Grant Term: 2010-2012.

Scott M (PI); **Forchuk C**, Neufelt B, Sherman DK and Cheng R (Co-Invs). "Creating diabetes competency training for mental health peer support workers and outreach to at-risk mental health consumer/survivors". *The Lawson Health Research Institute*. Total Funding: \$150,000. Grant Term: 2010-2012.

**Shrivastava A** (PI); Summer K, Bureau Y, **Chiu S**, Mooser R, Debrune H and **Campbell R** (Co-Invs). "Study of clinical and neuroprotective (BDNF) parameters involved in transition to psychosis amongst individuals who are at ultra-high risk (UHR) for developing psychosis: A Pilot Study". *Lawson Health Research Institute*. Total Funding: \$11,900. Grant Term: 2010-2011.

**Shrivastava A** (PI); Summer K, Bureau Y, **Chiu S**, Mooser R, Debrune H and **Campbell R** (Co-Invs). "A pilot study of brain-derived factor (BDNF) in medicated and unmediated first episode psychosis: A collaborative project between RMHC, LHRI and Elgin CMHA.". *UWO Department of Psychiatry Seed Funding*. Total Funding: \$7020. Grant Term: 2010-2011.

**Subramanian P** (PI); **Burhan A** and **Sharma V** (Co-Invs). "Repetitive magnetic transcranial stimulation in the treatment of postpartum depression: An exploratory study". *Lawson Health Research Institute*. Total Funding: \$15,000. Grant Term: 2011-2013.

**Subramanian P** (PI) and **Rudnick A** (Co-Inv). "A qualitative study of the experience of patients treated with repetitive transcranial magnetic stimulation (rTMS) for auditory hallucinations". *UWO, Department of Psychiatry Seed Funding*. Total Funding: \$5,000. Grant Term: 2009-2011.

**Subramanian P** (PI) and **Rudnick A** (Co-Inv). "The relation between ego-strength and functioning in individuals with schizophrenia - a combined feasibility and exploratory study". *UWO, Department of Psychiatry Seed Funding*. Total Funding: \$958. Grant Term: 2009-2011.

**Vasudev A** (PI) and **Heisel M** (Co-Inv). "Schulich Research Opportunities Project". *UWO, Schulich School of Medicine & Dentistry*. Total Funding: \$5,000. Grant Term: 2011-2012.

**Vasudev A** (PI) and Shoemaker K (Co-Inv). "New Faculty Start Up". *UWO, Department of Psychiatry*. Total Funding: \$50,000. Grant Term: 2011-2013.

#### **OTHER GRANT FUNDING:**

**Chiu SS** (PI); Copen J, Bureau Y, **Srivastava A**, **Cernovsky z**, **Dua V**, Husni M and Summers K (Co-Invs). "Multi-functional outcome study of ziprasidone switch in bipolar disorder: Differential mediating effects of e-SMART program versus usual care". *Pfizer Canada*. Total Funding: \$181,000. Grant Term: 2009-2012.

**Chiu SS** (PI); **Bureau Y**, Badmeav V, **Cernovsky Z**, Summers K and Nigel G (Co-Invs). "Translational research program on botanical ingredient of the extract scelletum tortuosum (Zembrin®) targeting PDE-4 (phosphodiesterase-4) in cognition and mood and anxiety. Part I: Proof of concept study of extract scelletum tortuosum (Zembrin®) (standardized for key mesembrine compounds). Assessment in normal middle-aged and elderly subjects on cognition, mood and anxiety. Part II: Mesembrenone in aging models". *PJ Thomas Inc., NJ*. Total Funding: \$50,500 US. Grant Term: 2011-2012.

**Corring D** (PI); Kalia K, **Subramanian P** and **Rudnick A** (Co-Invs). "Evaluation of the establishment of a recovery-oriented milieu in a psychiatric hospital tertiary care inpatient unit". *Eli Lilly*. Total Funding: \$7,000. Grant Term: 2010.

deOlivera CA (PI); **Stewart SL** and Rupert K (Co-Invs). "Evaluation of the Circle of Security Program". *The Arcangelo Rea Family Foundation*. Total Funding: \$30,000. Grant Term: 2011-2012.

**Harricharan R** (PI) and **Manchanda R** (Co-Invs). "A one-year, phase IV, open-label, non-comparative trial of the effect of Ziprasidone HCL on metabolic syndrome risk factors in patients with psychotic disorders". *Pfizer*. Total Funding: \$19,944.31. Grant Term: 2009-2011.

**Lanius RA** (PI). "Intergenerational transmission of trauma". *Judith Harris Foundation*. Total Funding: \$750,000. Grant Term: 2008-2013.

**Manchanda R** (PI) and **Harricharan R** (Co-Inv.). "Pharmacoepidemiologic International Longitudinal Antipsychotic Registry (PILAR)". *Janssen*. Total Funding: \$35,000. Grant Term: 2008-2011.

**Manchanda R** (PI); **Harricharan R** and **Northcott S** (Co-Invs). "First episode psychosis home assessment". *AMOSO Innovation Fund, Ministry of Health*. Total Funding: \$100,780. Grant Term: 2010-2012.

McEwan R, **Rudnick A** (Co-PIs) and **Subramanian P** (Co-Inv). "Barriers, enablers and related strategies in relation to supported post-secondary education for people with mental health challenges: A pilot (organizational) case study". *ARIPU, Fanshawe College*. Total Funding: \$5,640. Grant Term: 2009-2011.

**Ninan A** (PI); **Stewart SL**, Evans R and Theall-Honey L (Co-Invs). "Conducting the second phase of an evaluation of evidence-based side-effect monitoring checklists for psychotropic medications with youth in residential care". *AHSC AFP Innovation Fund*. Total Funding: \$21,513. Grant Term: 2011-2012.

**Norman RMG** (PI). "Coping with stigma of psychosis". *Arcangelo Rea Family Foundation*. Total Funding: \$20,000. Grant Term: 2008 on-going.

**Osuch E** (PI) and Vingilis E (Co-Inv). "Implementation and evaluation of a novel practice model for early identification and intervention for mood and anxiety disorders." *AHSC AFP Innovation Fund*. Total Funding: \$300,000. Grant Term: 2010-2012.

**Rudnick A** (Co-PI). "Humor-related interventions for mental health care service users: A feasibility and exploratory study (unrestricted grant)". *Astra Zeneca*. Total Funding: \$16,000. Grant Term: 2009-2011.

**Sharma V** (PI). "A 16-week randomized controlled trial of the effect of Aripiprazole versus standard of care on non-HDL cholesterol among patients with schizophrenia and bipolar I disorder who have pre-existing metabolic syndrome (CN138-564)." *Bristol-Myers Squibb, Inc*. Total Funding: \$45,340. Grant Term: 2009-2010.

**Sharma V** (PI). "Treatment of postpartum depression with duloxetine". *Eli Lilly Canada, Inc*. Total Funding: \$52,129. Grant Term: 2009-2011.

**Sharma V** (PI). "A randomized, double-blind, placebo-controlled exploratory study of augmentation of Seroquel XR with pramipexole dihydrochloride for bipolar depression". *Astra Zeneca, Inc*. Total Funding: \$105,855. Grant Term: 2010-2011.



**Sharma V** (PI). "Augmentation of resistant postpartum depression with aripiprazole". *Bristol-Myers Squibb, Inc.* Total Funding: \$34,972. Grant Term: 2011.

**Stewart SL** (PI). "Working together for kids' mental health". *Ministry of Children and Youth Services, Policy Development and Program Design Division.* Total Funding: \$75,000. Grant Term: 2010-2011.

**Stewart SL** (PI). "RAI mental health system for children and youth: Development, implementation and evaluation". *Volunteer Organization of the Child and Parent Resource Institute (VOCPRI).* Total Funding: \$100,000. Grant Term: 2011-2013.

**Stewart SL** (PI); Siman E, Leschied A and **Swart T** (Co-Invs). "Planning, access, and use of mental health services for youth in care: Review of research literature". *Ministry of Children and Youth Services, Policy Development and Program Design Division.* Total Funding: \$29,982. Grant Term: 2010-2011.

**Tibbo PG** (PI); **Bartha R**, Cox DW, Good KP, McAllindon D, Song X and Beyea S (Co-Invs). "NPAS3 variants in schizophrenia: A neuroimaging study". *Dalhousie University Department of Psychiatry Research Fund.* Total Funding: \$9,750. Grant Term: 2011-2012.

## Bioethics in the Department of Psychiatry

The Bioethics Program of the Department of Psychiatry at the University of Western Ontario (Western) continues to be a leading academic bioethics program in North American psychiatry. The Bioethics Program promotes teaching, research and development in various ways. In 2010/11, these academic initiatives included:

- Progress of the Canadian Unit of the International Network of the UNESCO Chair in Bioethics. The unit, established in 2009, focuses particularly on postgraduate and continuous professional education, and its head is Dr. Abraham Rudnick. An advisory board with bioethics and education expertise from across UWO and its teaching hospitals as well as from other universities in Canada and from the Canadian Medical Association supports the unit. The unit's research on postgraduate (residents') psychiatric ethics education was presented at the International Conference on Bioethics Education in Singapore in May 2011 and is currently in press. More research on this topic and other relevant topics is in planning.
- The annual summer bioethics course for the new UWO psychiatry residents.
- Quarterly clinical ethics seminars, where junior and senior residents present and discuss ethically challenging cases.
- A bi/annual Departmental Ethics CME/CPD event (addressing ethics and law in January 2011).
- Promotion of quarterly integrated bioethics rounds across the academic mental health care programs at RMHC and LHSC.
- Bioethics research, such as a current CIHR-funded study on dialogue in bioethics consultations in mental health care and other health care fields, led by Dr. Abraham Rudnick.
- A bioethics research fellowship, with opportunities for fellows to attend various bioethics forums; this fellowship, supervised by Dr. Abraham Rudnick, is offered to interested psychiatrists and other physicians from Canada and elsewhere, and lasts 1 to 3 years per fellow. Dr. Kyoko Wada completed her 2 year fellowship in June 2011, with resulting peer-reviewed and other publications and presentations.
- Representation of psychiatry in many relevant bioethics committees and groups in London, such as Western's Health Sciences Research Ethics Board (HSREB), Western's University Council on Research Ethics (Chaired by Dr. Abraham Rudnick 2009-2011), and more.
- Consultation to regional partners and beyond, such as to local clinical ethicists, as part of bioethics capacity building, particularly in relation to psychiatric ethics.
- Publication of bioethics writings, such as an open access book on bioethics in the 21st century (edited by Dr. Abraham Rudnick and published by InTech - <http://www.intechweb.org/books/show/title/bioethics-in-the-21st-century>).
- Posting of bioethics resources on the Department of Psychiatry's webpage.

Dr. Abraham (Rami) Rudnick  
Bioethics Director  
Department of Psychiatry, Western

Child & Adolescent Psychiatry Division	Developmental Disabilities Division	Forensic Psychiatry Division	General Adult Psychiatry Division	Geriatric Psychiatry Division	Neuropsychiatry Division	Social & Rural Psychiatry Division
Armstrong, Sarah <u>Fisman, Sandra</u> Haensel, Heidi Hall, Patty Isserlin, Leanna Kizilbash, Kamran Loveday, Ben Makhdoom, Sohail Ninan, Ajit Rizvi, Naveed Steele, Margaret	<b><u>Nicholson, Robert</u></b> Rao, Jay	<b><u>Mejia, Jose</u></b>	Barr, Jennifer Chamberlaine, Charles Chandarana, Praful Garcia, Carla Harricharan, Rajendra Haslam, David Hertzman, Daniel Hocke, Volker Lefcoe, Daniel Manchanda, Rahul Northcott, Sandra Owen, Richard <b><u>Reiss, Jeffrey</u></b> Sanjeev, D. Tidd, Christopher Vasudev, Kamini Watling, Mark	Doering, Michele Laporte, Noel Oates, Jennifer Park, Hae-Ryun <b><u>Van Bussel, Lisa</u></b> Vasudev, Akshya	Lanius, Ruth Macdonald, Kathryn Osuch, Elizabeth <b><u>Williamson, Peter</u></b>	Akhtar, Nadeem Campbell, Robbie Chiu, Simon Cortese, Leonardo Dua, Varinder Duggal, Vikas Feltham, Ian Goldman, David Guaiana, Giuseppe Jarman, Sarah McCarthy, Gregory Mehta, Viraj Nowicki, Aleksandra O'Reilly, Richard <b><u>Rudnick, Abraham</u></b> Rybak, Yuri Sharma, Verinder Srivastava, Amresh Subramanian, Priya Surti, Bhadresh Takhar, Jatinder Varapavan, Sreelatha

Department of Psychiatry – Full Time Clinical Academics – **August 31, 2011**

## Department of Psychiatry – Part Time Faculty – October 2011

<b>Child &amp; Adolescent Division</b>	<b>Developmental Disabilities Division</b>	<b>Forensic Psychiatry Division</b>	<b>General Adult Psychiatry Division</b>	<b>Geriatric Psychiatry Division</b>	<b>Neuro-psychiatry Division</b>	<b>Social &amp; Rural Psychiatry Division</b>
Ahluwalia, Simran Beal, Tim Bilkey, Timothy Braimoh, Gani Bresett, Alana Broadbent, Debra Brown, Alan Cane, Jessica Carter, Jeff Chovaz, Cathy Collins, Kerry DeOliveira, C.A. Dourova, Nevena Eichstedt, Julie Elliott-Faust, D. Evans, Barrie Gardiner, Joan Heintzman, John Helmi, Sanaa Hurley, Dermot Jacques, Heather Jeanson, Julie Jerome, Laurence Lazosky, Andrea Lee, Joanne McIntosh, William McKinlay, Duncan Mirc, Ericka Mirza, Rida Ouellette, Don Pariser, Jill Phoenix, Liz Presse, Monique Rabenstein, S. Rodenhurst, Mary Short, Judith Sigurdson, Craig Stare, Liga Stewart, Shannon Stovel, Jessica Thorpe, Marilyn VanMeyel, Rita Workman, Allan Zayed, Richard	DeVito, Tim Gillis, Greg LaRose, Louise	Komer, William Litman, Larry Norris, Phillip	Brownstone, Desi Campbell, Neil Carr, Jason Egan, Ray Francis, Judith Friesen, Walter Gupta, Madhulika Hanna, Ed Hjertaas, Trevor Jacob-Goldman, Therese Kligman, David Lamoure, Joel MacDonald, Michael Maxfield, Louise Mendonca, James Molnar, Laura Nicholson, Ian O'Flanagan, Denis Pelz, Margaret Reid, Brian Richardson, Donald Sheskin, Rena Silcox, JoAnn Sussman, Sam Truant, Greg Wardrop, Nancy Weisz, Gary	Doherty, Jennifer Fisman, Michael Fogarty, Jennifer LeClair, Ken O'Regan, Tony Trenker, David	Fernando, MDL Gray, John Hopper, James McKinnon, Margaret	Breiter, Hans Bush, Haydn Cernovsky, Zack Corring, Deborah Diaz, Kristine Eastwood, Diane Ferrari, Jack Hand, Karen Khan, Mustaq Leavey, JoAnn LeMarquand, David MacLeod, Valerie Malhotra, Ladi Singh, Abhay Thomas, Ann

DEPARTMENT OF PSYCHIATRY - ANNUAL AWARDS ACADEMIC YEAR 2010-2011	
AWARDS	WINNER
Paul Patterson Teaching Award	Dr. Julie Richard
Administrative Staff Award	Deborah Lucas
Clinical Innovation Award	Dr. Jeffrey Reiss and Dr. Sarah Jarman
<b>PROMOTION AWARDS</b>	
Promotion to Associate Professor with Continuing Appointment (July 1, 2011)	Dr. Sarah Jarman
Promotion to Associate Professor with Continuing Appointment (July 1, 2011)	Dr. Naveed Rizvi
Promotion to Associate Professor with Continuing Appointment (July 1, 2011)	Dr. Amresh Srivastava
Promotion to Associate Professor with Continuing Appointment (July 1, 2011)	Dr. Christopher Tidd
Promotion to Full Professor (July 1, 2011)	Dr. Jatinder Takhar
<b>EDUCATION AWARDS</b>	
<b>UGE - EDUCATION AWARDS</b>	
UGE-Clerkship Supervisor of the Year Award - Local (May 31, 2010 -April 25, 2011)	Dr. Volker Hocke
UGE-Clerkship Supervisor of the Year Award - Rural (May 31, 2010 -April 25, 2011)	Dr. Mirela Bucur
UGE-Clerkship Seminar Leader of the Year Award (May 31, 2010 -April 25, 2011)	Dr. Sandra Northcott
UGE-Clerkship Resident Teaching Award (May 31, 2010 -April 25, 2011)	Dr. Leslie Ritchie and Dr. Bernard Zev Grynspan
UGE-Clerkship Child & Adolescent Supervisor of the Year (May 31, 2010 -April 25, 2011)	Dr. Ajit Ninan
<b>PGE - EDUCATION AWARDS</b>	
PGE-Junior Resident of the Year Award	Dr. Jennifer Tiffney
PGE-Senior Resident of the Year Awards	Dr. Michelle Ngo
<b>CME /CPD AWARDS</b>	
Best CME Presentation by a Junior Resident	Dr. Jonathan Tan
Best CME Presentation by a Senior Resident	Dr. Joel Shapiro
Best CME Presentation by Senior Faculty	Dr. Peter Williamson

<b>DIVISION AWARDS</b>	
<b>CHILD &amp; ADOLESCENT DIVISION</b>	
Award of Excellence in Postgraduate Teaching	Dr. Leanna Isserlin
Award of Excellence in Undergrad Teaching	Dr. Ajit Ninan
Star of the Year Award in Child & Adolescents	Dr. Leanna Isserlin
<b>GERIATRIC DIVISION</b>	
Excellence in Postgraduate Education	Dr. Amer Burhan
Dr. David Harris Award	Dr. Chris Ryan
<b>GENERAL ADULT PSYCHIATRY</b>	
Clinician of the Year	Dr. Richard Owen
<b>RESEARCH</b>	
Research Award	Dr. Ruth Lanius