Jacques E. Nör, DDS, MS, PhD

Donald A Kerr Professor of Dentistry
Professor and Chair, Department of Cariology, Restorative Sciences, Endodontics
Professor of Biomedical Engineering, College of Engineering
Professor of Otolaryngology, Medical School
University of Michigan

“The therapeutic targeting of head and neck cancer stem cells”

The progression of head and neck tumors depend on cancer stem cells, a small sub-population of uniquely tumorigenic cells that exhibit self-renewal and multipotency. These unique cells reside primarily in the invasive fronts in close proximity to blood vessels.

Recent evidence suggests that cancer stem cells resist chemotherapy and "drive" local recurrence and metastatic spread.

In this seminar, we will discuss mechanistic studies that have shed light on the impact of cancer stem cells to the pathobiology of head and neck cancer and our recent attempts to develop therapies aiming at the ablation of these cells as novel treatment strategies for patients with head and neck malignancies.

ALL WELCOME