

Dr. Harvey Goldberg – Selected Recent References

1. Forsprecher J, Wang Z, Goldberg HA, Kaartinen MT. Transglutaminase-mediated oligomerization promotes osteoblast adhesive properties of osteopontin and bone sialoprotein. *Cell Adh Migr*. 2011 Jan-Feb;5(1):65-72. Epub 2011 Jan 1. PubMed PMID: 20864802; PubMed Central PMCID: PMC3038101.
2. McDonald EE, Goldberg HA, Tabbara N, Mendes FM, Siqueira WL. Histatin 1 resists proteolytic degradation when adsorbed to hydroxyapatite. *J Dent Res*. 2011 Feb;90(2):268-72. Epub 2010 Nov 12. PubMed PMID: 21076122.
3. Grohe B, Chan BP, Sørensen ES, Lajoie G, Goldberg HA, Hunter GK. Cooperation of phosphates and carboxylates controls calcium oxalate crystallization in ultrafiltered urine. *Urol Res*. 2011 Jan 14. [Epub ahead of print] PubMed PMID: 21234554.
4. Chan WD, Goldberg HA, Hunter GK, Dixon SJ, Rizkalla AS. Modification of polymer networks with bone sialoprotein promotes cell attachment and spreading. *J Biomed Mater Res A*. 2010 Sep 1;94(3):945-52. PubMed PMID: 20730931.
5. Tenboll A, Darvish B, Hou W, Duwez AS, Dixon SJ, Goldberg HA, Grohe B, Mittler S. Controlled deposition of highly oriented type I collagen mimicking in vivo collagen structures. *Langmuir*. 2010 Jul 20;26(14):12165-72. PubMed PMID: 20560559.
6. Wine E, Shen-Tu G, Gareau MG, Goldberg HA, Licht C, Ngan BY, Sorensen ES, Greenaway J, Sodek J, Zohar R, Sherman PM. Osteopontin mediates *Citrobacter rodentium*-induced colonic epithelial cell hyperplasia and attaching-effacing lesions. *Am J Pathol*. 2010 Sep;177(3):1320-32. Epub 2010 Jul 22. PubMed PMID: 20651246; PubMed Central PMCID: PMC2928965.

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7. Hunter GK, O'Young J, Grohe B, Karttunen M, Goldberg HA. The Flexible Polyelectrolyte Hypothesis of Protein-Biomineral Interaction. *Langmuir*. 2010 Jun 8. [Epub ahead of print] PubMed PMID: 20527831.
8. Baht GS, O'Young J, Borovina A, Chen H, Tye CE, Karttunen M, Lajoie GA, Hunter GK, Goldberg HA. Phosphorylation of Ser136 is critical for potent bone sialoprotein-mediated nucleation of hydroxyapatite crystals. *Biochem J*. 2010 May 27;428(3):385-95. PubMed PMID: 20377527.
9. Azzopardi PV, O'Young J, Lajoie G, Karttunen M, Goldberg HA, Hunter GK. Roles of electrostatics and conformation in protein-crystal interactions. *PLoS One*. 2010 Feb 19;5(2):e9330. PubMed PMID: 20174473; PubMed Central PMCID: PMC2824833.
10. Grohe B, Taller A, Vincent PL, Tieu LD, Rogers KA, Heiss A, Sørensen ES, Mittler S, Goldberg HA, Hunter GK. Crystallization of calcium oxalates is controlled by molecular hydrophilicity and specific polyanion-crystal interactions. *Langmuir*. 2009 Oct 6;25(19):11635-46. PubMed PMID: 19725562.
11. Gordon JA, Sodek J, Hunter GK, Goldberg HA. Bone sialoprotein stimulates focal adhesion-related signaling pathways: role in migration and survival of breast and prostate cancer cells. *J Cell Biochem*. 2009 Aug 15;107(6):1118-28. PubMed PMID: 19492334.
12. Gordon JA, Hunter GK, Goldberg HA. Activation of the mitogen-activated protein kinase pathway by bone sialoprotein regulates osteoblast differentiation. *Cells Tissues Organs*. 2009;189(1-4):138-43. Epub 2008 Aug 26. PubMed PMID: 18728350.
13. Baht GS, Hunter GK, Goldberg HA. Bone sialoprotein-collagen interaction promotes

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hydroxyapatite nucleation. Matrix Biol. 2008 Sep;27(7):600-8. Epub 2008 Jun 24. PubMed PMID: 18620053.

14. Gill KS, Beier F, Goldberg HA. Rho-ROCK signaling differentially regulates chondrocyte spreading on fibronectin and bone sialoprotein. Am J Physiol Cell Physiol. 2008 Jul;295(1):C38-49. Epub 2008 May 7. PubMed PMID: 18463228; PubMed Central PMCID: PMC2493551.

15. Grohe B, O'Young J, Ionescu DA, Lajoie G, Rogers KA, Karttunen M, Goldberg HA, Hunter GK. Control of calcium oxalate crystal growth by face-specific adsorption of an osteopontin phosphopeptide. J Am Chem Soc. 2007 Dec 5;129(48):14946-51. Epub 2007 Nov 10. PubMed PMID: 17994739.

16. Gordon JA, Tye CE, Sampaio AV, Underhill TM, Hunter GK, Goldberg HA. Bone sialoprotein expression enhances osteoblast differentiation and matrix mineralization in vitro. Bone. 2007 Sep;41(3):462-73. Epub 2007 May 6. PubMed PMID: 17572166.