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Research Interests

My primary research interest focuses on developing treatments to regenerate bone. Especially important to me are patients with developmental craniofacial bone problems and geriatric patients who will experience difficulties with bone healing. Clinical treatments that will benefit these conditions include cells, gene therapy, signaling molecules, scaffolds, and devices. Therefore, work in the laboratory has emphasized understanding the basic principles of these options either alone or in combination, permitting development as clinical therapies.

Sample Publications

- S. Winn, J. Bonadio, Y. Hu, and J. O. Hollinger, Cells as Drug Delivery Platforms, *Advanced Drug Delivery Reviews*, In Press.
- J.O. Hollinger, S.Winn, and J. Bonadio, Options for Tissue Engineering to Address Challenges of the Aging Skeleton, *Tissue Engineer.* (6)4: 341-350, 2000.
- S. R. Winn, H. Uludag, and J.O. Hollinger, Carrier Systems for Bone Morphogenetic Proteins, *Clin. Orthop. Rel. Res.*, 367: S95-S106. 1999.
- S. Winn, G. Randolph, H. Uludag, S. C. Wong, G. Hair, and J. O. Hollinger, Establishing an Immortalized Human Osteoprecursor Cell Line: OPC1, *Bone Min. Res.*, Vol.14(10), 1-13, 1999.
- S. Winn, J. Schmitt, D. Buck, Y. Hu, D. Grainger, and J.O. Hollinger, A Tissue Engineered Bone Biomimetic to Regenerate Calvarial Critical-Sized Defects in Athymic Rats, *Biomed. Mater. Res.*, 45, 414-421. 1999.
- H.D. Zegzula, D. Buck, J. Brekke, J. Wozney, and J.O. Hollinger, Bone Formation With Use of rhBMP-2, *J. Bone Joint Surg.*, 79A (12):1778-1790. 1997