

Research area:

My research interests are focused on the use of tissue engineering approaches to restore the function of the nervous system. My current research projects include spinal cord repair, and engineering neural prosthesis/brain interface using biomaterials, drug delivery, and stem cell therapy.

Publications

- **Zhong Y.**, and Bellamkonda R.V., “Biomaterials for the central nervous system”. *Journal of the Royal Society Interface*, 5(26), 957-975, (2008).
- **Zhong Y.**, and Bellamkonda R.V., “Dexamethasone-coated neural probes elicit attenuated inflammatory response and neuronal loss compared to uncoated neural probes”. *Brain Research*, 1148, 15-27, (2007).
- Patz T.M., Doraiswamy A., Narayan R.J., Menegazzo N., Kranz C., Mizaikoff B., **Zhong Y.**, Bellamkonda R., Bumgardner J.D., Elder S.H., Walboomers X.F., Modi R. and Chrisey D.B., “Matrix assisted pulsed laser evaporation of biomaterial thin films”. *Materials Science and Engineering: C*, 27(3), 514-522, (2007).
- **Zhong Y.**, and Bellamkonda R.V., “Cortical responses to dexamethasone coated silicon neural probes”. *Tissue Engineering*, 12(4), 1037, (2006).
- Patz T.M., Doraiswamy A., Narayan R.J., He W., **Zhong Y.**, Bellamkonda R., Modi R., and Chrisey D.B., “Three-Dimensional Direct Writing of Neuroblasts”, *Journal of Biomedical Materials Research B*, 78 (1), 124-130, (2006).
- **Zhong Y.**, and Bellamkonda R.V., “Controlled release of α -MSH using nitrocellulose coatings for neural implants”. *Journal of Controlled Release*, 106(3), 309-318, (2005).
- **Zhong Y.**, McConnell G.C., Ross J.D., DeWeerth S.P., And Bellamkonda R.V., “A Novel Dexamethasone-releasing, Anti-inflammatory Coating for Neural Implants”. *Proceedings of the 2nd International IEEE EMBS Conference on Neural Engineering*, pp. 522-525, (2005). (win the Journal of Neural Engineering Award 2005)
- Patz T.M., Doraiswamy A., Narayan R.J., Menegazzo N., Kranz C., Mizakoff B., **Zhong Y.**, Bellamkonda R., Modi R., Chrisey D.B., “Matrix assisted pulsed laser evaporation of dexamethasone thin films”. *Materials Research Society Symposium Proceedings*, 845, 77-81 (2005)
- **Zhong Y.**, Yu X., Gilbert R.J., and Bellamkonda R.V., “Stabilizing electrode-host interfaces: a tissue engineering approach”. *Journal of Rehabilitation Research and Development*, 38(6), 627-632, (2001).
- Gong H., **Zhong Y.**, Li J., Gong Y., Zhao N. and Zhang X., “Studies on nerve cell affinity of chitosan-derived materials”, *Journal of Biomedical Materials Research*, 52(2), 285-295, (2000).
- **Zhong Y.**, Li J., Gong Y., Zhao N., and Zhang X., “Feasibility of Using Chitosan in Nerve Repair”, *Tsinghua Science and Technology*, 5(4), 432-435, (2000).
- Li J., **Zhong Y.**, Gong Y., Zhao N., and Zhang X., “Chitosan Conduit for Peripheral Nerve Regeneration”, *Tsinghua Science and Technology*, (4)3, 1515-1518, (1999).