

Yinghui Zhong, Ph.D.

Patents

- Zhong Yinghui and Bellamkonda Ravi. “Nitrocellulose for Controlled and Sustained Drug Release from sensors”. (U.S. patent pending, available for licensing)
- Zhang Xiufang, Gong Yandao, Li Jianchun, Gong Haipeng, Zhong Yinghui, and Zhang Miao. “Chitosan conduit for nerve repair”. (CN1262961A, in Chinese)

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)
- 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).

Presentations

- Zhong Y., Stokes N.W., and Bellamkonda R.V., “Effects of serum on cortical cells: Implications for neural electrode function”. *Society for Neuroscience Annual Meeting*, Oct. 14-18, 2006, Atlanta, GA.
- Zhong Y., Stokes N.W., and Bellamkonda R.V., “Differential response of mature and immature astrocytes to cyclic strain”. *Society for Neuroscience Annual Meeting*, Nov. 12-16, 2005, Washington, DC.
- Zhong Y., and Bellamkonda R.V., “Cortical responses to dexamethasone coated silicon neural probes”. *The 8th Annual Meeting of Tissue Engineering Society International*, Oct. 22-25, 2005, Shanghai, China. (Oral presentation)
- Zhong Y., and Bellamkonda R.V., “An Anti-inflammatory Coating for Neural Implants”. *BMES 2005 Fall Meeting*, Sep. 28-Oct. 1, 2005, Baltimore, MD. (Invited talk)
- Zhong Y., and Bellamkonda R.V., “*In vitro* Study of the Anti-inflammatory Effects of Dexamethasone for Cortical Neural Prosthetics”. *National Institute of Neurological Disorders and Stroke Neural Interface Workshop*, Sep. 7-9, 2005, Bethesda, MD.
- Zhong Y., and Bellamkonda R.V., “Biocompatible, bioactive coatings for neural prosthesis”. *Society for Neuroscience Annual Meeting*, Oct. 23-27, 2004, San Diego, CA. (Oral presentation)
- Zhong Y., McConnell G.C., and Bellamkonda R.V., “*In vitro* and *in vivo* study of a novel drug releasing coating for implanted neural electrodes”. *National Institute of Neurological Disorders and Stroke Neural Interface Workshop*, Nov. 15-17, 2004, Bethesda, MD.
- Patz T.M, Doraiswamy A., Narayan R.J., Menegazzo N., Kranz C., Mizakoff C., Zhong Y., Bellamkonda R., Modi R., and Chrisey D.B, “Matrix assisted pulsed laser evaporation of dexamethasone thin films”. *2004 Materials Research Society Fall Meeting*, Nov. 29-Dec. 3, 2004, Boston, MA.
- Zhong Y., and Bellamkonda R.V., “Bioactive neuro-integrative coatings for implantable electrodes”. *Society for Biomaterials 2002 Annual Meeting*, Apr. 24-27, 2002, Tampa, FL.

Professional Development

- Helped with the writing of two awarded National Institute of Health (NIH) R01 grants: Neuro-integrative coatings for improved neural recordings, Strain-induced scarring and its effects on microelectrodes
- Attended a NIH grant writing workshop

Current and Previous Affiliations

- Member of Society for Neuroscience
- Member of Society for Biomaterials
- Member of IEEE Engineering in Medicine and Biology Society
- Graduate Student Senate for GT Student Government Association