

Peer-reviewed Publications

- Stamereilers C, LeBlanc L, Yost DG, Amy PS, **Tsourkas P** (2016) Comparative genomics of nine novel *Paenibacillus larvae* bacteriophages. *Bacteriophage*. In press. DOI: 10.1080/21597081.2016.1220349.
- Yost DG, **Tsourkas P**, Amy PS (2016) Experimental bacteriophage treatment of honeybees (*Apis mellifera*) infected with *Paenibacillus larvae*, the causative agent of American Foulbrood Disease. *Bacteriophage*. 6(1):e1122698. DOI: 10.1080/21597081.2015.1122698
- **Tsourkas P**, Yost D, Krohn A, Leblanc L, Zhang A, Stamereilers C, Amy PS (2015) Complete genome sequences of nine phages capable of infecting *Paenibacillus larvae*, the causative agent of American Foulbrood disease of honeybees. *Genome Announcements*. 3(5):e01120-15. DOI: 10.1128/genomeA.01120-15.
- LeBlanc L, Nezami S, Yost D, **Tsourkas P**, Amy PS (2015) Isolation and characterization of a novel phage lysin active against *Paenibacillus larvae*, a Honeybee pathogen. *Bacteriophage* . 5(4):e1080787. DOI: 10.1080/21597081.2015.1080787
- **Tsourkas P**, Yu-Yang P, Liu W, Pierce SK, Raychaudhuri S (2012) Formation of BCR oligomers provides a mechanism for B cell affinity discrimination. *J. Theor. Bio.* 307:174-182.
- Cooke DF, Goldring AB, Yamakyoshi I, **Tsourkas P**, Recanzone G, Tiriach A, et al. (2012) Fabrication of an inexpensive, implantable cooling device for reversible brain deactivation in animals ranging from rodents to primates. *J. Neurophysiol.* 107:3543-3558.
- **Tsourkas P**, Liu W, Das S, Pierce SK, Raychaudhuri S (2012) Affinity discrimination in response to membrane antigen in B cells requires that kinetic proofreading predominate over serial engagement. *Cell. & Mol Immunol.* 9:62-74.
- Alla SR, **Tsourkas P**, Raychaudhuri S (2011) Monte Carlo study of B-cell receptor clustering mediated by antigen cross-linking and directed transport. *Cell. & Mol. Immunol.* 8(3):255-264.
- **Tsourkas P**, Raychaudhuri S (2011) Monte Carlo investigation of diffusion of receptors and ligands that bind across opposing surfaces. *Ann. Biomed. Engr.* 39 (1):427-442.
- **Tsourkas P**, Raychaudhuri S (2010) Modeling of B cell synapse formation by Monte Carlo simulation shows that directed transport of receptor molecules is a potential formation mechanism. *Cell. & Mol. Bioeng.* 3(3):256-268.
- **Tsourkas P**, Longo ML, Raychaudhuri S (2008) Monte Carlo study of single molecule diffusion can elucidate the mechanism of B cell synapse formation. *Biophysical Journal* 95:1118-1125.
- **Tsourkas P**, Baumgarth N, Simon SI, and Raychaudhuri S (2007) Mechanisms of B cell synapse formation predicted by Monte Carlo simulation. *Biophysical Journal* 92:4196-4208.
- **Tsourkas P**, Rubinsky B (2005) A parallel genetic algorithm for heat conduction problems. *Numerical Heat Transfer B: Fundamentals* 47:97-110.
- **Tsourkas P**, Rubinsky B (2003) An evolutionary-genetic algorithm for solving 2-D steady-state heat conduction problems. *Numerical Heat Transfer B: Fundamentals* 43:99-115.

Book Chapters

- Yu-Yang P, Raychaudhuri SC, Reddy AS, **Tsourkas P**, et al. (2013) Dynamic Clustering of BCR-lipid rafts in antigen affinity discrimination in B cells. *In B cells: Molecular Biology, Developmental Origin, and Impact on the Immune System*, R.L. Montes and L. Reyes, editors. Nova Publishers.
- Raychaudhuri S, **Tsourkas P**, Willgohe E (2009) Computational modeling of receptor-ligand binding and cellular signaling processes. *In Handbook of Modern Biophysics, Volume I Fundamentals*, T. Jue, editor. Humana Press, Springer, New York. Times Cited: **11**
- **Tsourkas P**, Rubinsky B (2005) Principles of energy conservation in evolutionary genetics analysis. *Annual Review of Heat Transfer* 14:277-294.