References Pertaining to In Vitro TBI

1. Alley, M. D., and Son, S. F. (2009). Blast Loading Experiments of Surrogate Models for Tbi Scenarios. *Shock Compression of Condensed Matter - 2009, Pts 1 and 2* **1195**, 1391-1394.

2. Alley, M. D., Schimizze, B. R., and Son, S. F. (2011). Experimental modeling of explosive blast-related traumatic brain injuries. *Neuroimage* **54**, S45-S54.

3. Bain, A. C., and Meaney, D. F. (2000). Tissue-level thresholds for axonal damage in an experimental model of central nervous system white matter injury. *Journal of Biomechanical Engineering-Transactions of the Asme* **122**(6), 615-622.

4. Bernick, K. B., Prevost, T. P., Suresh, S., and Socrate, S. (2011). Biomechanics of single cortical neurons. *Acta Biomaterialia* **7**(3), 1210-1219.

5. El Sayed, T., Mota, A., Fraternali, F., and Ortiz, M. (2008). Biomechanics of traumatic brain injury. *Computer Methods in Applied Mechanics and Engineering* **197**(51-52), 4692-4701.

6. Elkin, B. S., and Morrison, B. (2007). Region-Specific Tolerance Criteria for the Living Brain. *Stapp Car Crash Journal, Vol 51* **51**, 127-138.

7. Geddes, D. M., and Cargill, R. S. (2001). An in vitro model of neural trauma: Devise characterization and calcium response to mechanical stretch. *Journal of Biomechanical Engineering-Transactions of the Asme* **123**(3), 247-255.

8. Heydari, M., and Jani, S. (2010). An ellipsoidal model for studying response of head impacts. *Acta of Bioengineering and Biomechanics* **12**(1), 47-53.

9. Lissner, H. R., Lebow, M., and Evans, F. G. (1960). Experimental Studies on the Relation Between Acceleration and Intracranial Pressure Changes in Man. *Surgery Gynecology & Obstetrics* **111**(3), 329-338.

10. Mao, H. J., Yang, K. H., King, A. I., and Yang, K. (2010). Computational neurotrauma-design, simulation, and analysis of controlled cortical impact model. *Biomechanics and Modeling in Mechanobiology* **9**(6), 763-772.

11. Mao, H. J., Wagner, C., Guan, F. J., Yeni, Y. N., and Yang, K. H. (2011). Material Properties of Adult Rat Skull. *Journal of Mechanics in Medicine and Biology* **11**(5), 1199-1212.

12. Mao, H. J., Guan, F. J., Han, X., and Yang, K. H. (2011). Strain-Based Regional Traumatic Brain Injury Intensity in Controlled Cortical Impact: A Systematic Numerical Analysis. *Journal of Neurotrauma* **28**(11), 2263-2276.

13. Mao, H., Zhang, L., Yang, K. H., and King, A. I. (2006). Application of a finite element model of the brain to study traumatic brain injury mechanisms in the rat. *Stapp car crash journal* **50**, 583-600.

14. Morrison, B., Elkin, B. S., Dolle, J. P., and Yarmush, M. L. (2011). In Vitro Models of Traumatic Brain Injury, pp. 91-126.

15. Ning, X. G., Zhu, Q. L., Lanir, Y., and Margulies, S. S. (2006). A transversely isotropic viscoelastic constitutive equation for Brainstem undergoing finite deformation. *Journal of Biomechanical Engineering-Transactions of the Asme* **128**(6), 925-933.

16. Petr, K., Bondi, M. W., Ward, S. R., and Frank, L. R. (2012). On Sources of Error in Finite Element Simulations of Blast Effects in the Human Brain. *Journal of Computational and Nonlinear Dynamics* **7**(3).

17. Prevost, T. P., Jin, G., de Moya, M. A., Alam, H. B., Suresh, S., and Socrate, S. (2011). Dynamic mechanical response of brain tissue in indentation in vivo, in situ and in vitro. *Acta Biomaterialia* **7**(12), 4090-4101.

18. Prevost, T. P., Balakrishnan, A., Suresh, S., and Socrate, S. (2011). Biomechanics of brain tissue. *Acta Biomaterialia* **7**(1), 83-95.

19. Raul, J. S., Deck, C., Willinger, R., and Ludes, B. (2008). Finite-element models of the human head and their applications in forensic practice. *International Journal of Legal Medicine* **122**(5), 359-366.

20. Shafieian, M., Darvish, K. K., and Stone, J. R. (2009). Changes to the viscoelastic properties of brain tissue after traumatic axonal injury. *Journal of Biomechanics* **42**(13), 2136-2142.

21. Wright, R. M., and Ramesh, K. T. (2012). An axonal strain injury criterion for traumatic brain injury. *Biomechanics and Modeling in Mechanobiology* **11**(1-2), 245-260.

22. Zhang, L. Y., Yang, K. H., and King, A. I. (2004). A proposed injury threshold for introduction mild traumatic brain injury. *Journal of Biomechanical Engineering-Transactions of the Asme* **126**(2), 226-236.