**Mckee, A. C., & Daneshvar, D. H. (2015). The neuropathology of traumatic brain injury. *Handbook of Clinical Neurology Traumatic Brain Injury, Part I,*45-66. doi:10.1016/b978-0-444-52892-6.00004-0**

This paper discusses the pathology of traumatic brain injury, and the debilitating neurological conditions it can increase the risk for. A strong background is provided here for understanding the biology behind the injury.

**Diaz-Arrastia, R., & Kenney, K. (2014). Epidemiology of traumatic brain injury. *Traumatic Brain Injury,*181-191. doi:10.1002/9781118656303.ch10**

The authors provide data on the prevalence of TBI, and how pressing of a medical problem it has become. Both acute and chronic effects are also discussed.

**Lee, B., & Newberg, A. (2005). Neuroimaging in traumatic brain imaging. *Neurotherapeutics,2*(2), 372-383. doi:10.1007/bf03206678**

Here the authors review the diagnostic capabilities of different imaging techniques, particularly MRI, in traumatic brain injury.

**Saatman, K. E., Duhaime, A., Bullock, R., Maas, A. I., Valadka, A., & Manley, G. T. (2008). Classification of Traumatic Brain Injury for Targeted Therapies. *Journal of Neurotrauma,25*(7), 719-738. doi:10.1089/neu.2008.0586**

This is a review discussing the different injuries and their severity under traumatic brain injury. Some are more severe than others, and may require a different clinical approach.

**Haghbayan, H., Boutin, A., Laflamme, M., Lauzier, F., Shemilt, M., Moore, L., . . . Turgeon, A. F. (2017). The Prognostic Value of MRI in Moderate and Severe Traumatic Brain Injury. *Critical Care Medicine,45*(12). doi:10.1097/ccm.0000000000002731**

Different imaging methods have been used to predict injury outcomes in TBI, but MRI has been shown to provide the best resolution and most information regarding the damage after a TBI.

**Mcdonald, B. C., Saykin, A. J., & Mcallister, T. W. (2012). Functional MRI of mild traumatic brain injury (mTBI): Progress and perspectives from the first decade of studies. *Brain Imaging and Behavior,6*(2), 193-207. doi:10.1007/s11682-012-9173-4**

Here the authors review the potential uses FMRI in less severe cases of traumatic brain injury. Differences in functional activity may provide relevant information for injury outcomes, but FMRI is more limited in its clinical effectiveness.

**Assaf, Y., & Pasternak, O. (2007). Diffusion Tensor Imaging (DTI)-based White Matter Mapping in Brain Research: A Review. *Journal of Molecular Neuroscience,34*(1), 51-61. doi:10.1007/s12031-007-0029-0**

Diffusion Tensor Imaging takes advantage of differences in diffusion rates based on fiber orientation and other variables to produce detailed images of brain tissue. This review discusses the many uses of DTI in neuroscience, and its potential for brain mapping.

**Simmons, A., & Hakansson, K. (2010). Magnetic Resonance Safety. *Methods in Molecular Biology Magnetic Resonance Neuroimaging,*17-28. doi:10.1007/978-1-61737-992-5\_2**

Here important information is reviewed regarding the safety of MRI, and the minor risks to be aware of. Some reported issues of nystagmus and vertigo have come up, and other potential issues are discussed.

**Gore, J. C. (2003). Principles and practice of functional MRI of the human brain. *Journal of Clinical Investigation,112*(1), 4-9. doi:10.1172/jci19010**

One of the better reviews of FMRI specifically, and clearly goes through the limitations and benefits of using this technique as opposed to others.

***Mathematics and physics of emerging biomedical imaging*. (1996). Washington, D.C.: National Academy Press.**

This book, though old, provides a comprehensive background on the math and physics behind medical imaging.

**Ncbi.nlm.nih.gov. (2018). *Home - PubMed - NCBI*. [online] Available at: https://www.ncbi.nlm.nih.gov/pubmed/ [Accessed 2 Nov. 2018].**

Pubmed is perhaps the best database for locating credible research articles for any purpose. While not that useful for some of the social sciences, PubMed is an irreplaceable resource for the medical and biological literature.

**Scimagojr.com. (2018). *Scimago Journal & Country Rank*. [online] Available at: https://www.scimagojr.com/ [Accessed 2 Nov. 2018].**

This websites primary purpose is for presenting the H-index of journals and a nice statistical breakdown of their citations. A quartile ranking is provided that generally represents well the quality of the journal, assisting in the evaluation of results if a paper seems dubious at first glance.

**Portal.brain-map.org. (2018). *Brain Map - brain-map.org*. [online] Available at: http://portal.brain-map.org/ [Accessed 2 Nov. 2018].**

Here you can access the Allen Brain Atlas, which is the most robust and easiest to use atlas found online. The site is great for refreshing your cerebral anatomy, and is of great importance to those doing histology as specific nuclei are clearly delineated by borders and colors.

**Centre for Neural Circuits and Behavior, U. (2018). *ICGenealogy - the ion channel model database*. [online] Icg.neurotheory.ox.ac.uk. Available at: https://icg.neurotheory.ox.ac.uk/ [Accessed 2 Nov. 2018].**

This web database provides an easy to access compilation of thousands of ion channel models, and many of which are quantitatively evaluated providing the key details of whatever ion channel you may be studying.

**Biophysics.org. (2018). *Biophysical Society*. [online] Available at: https://www.biophysics.org/ [Accessed 2 Nov. 2018].**

The website of the Biophysical Society has some interesting resources posted and provides up to date information on what’s going on in the filed .

**Team, P. (2018). *PhysiologyWeb - Physiology on the Web*. [online] Physiologyweb.com. Available at: http://www.physiologyweb.com/ [Accessed 2 Nov. 2018].**

Physiology web is an educational resource that’s great at breaking down complex physiological topics and works through complex problems with several examples.

**IUPAC | International Union of Pure and Applied Chemistry. (2018). *International Union of Pure and Applied Chemistry*. [online] Available at: https://iupac.org/ [Accessed 2 Nov. 2018].**

A website similar to the Biophysical Society, but more focused on providing access to different resources hosted by the site itself, such as chemical nomenclature.

**Nature.com. (2018). *Scitable | Learn Science at Nature*. [online] Available at: https://www.nature.com/scitable [Accessed 2 Nov. 2018].**

Scitable is another great educational resource primarily for biology, as it provides a succinct look at a molecular technique or concept that’s easy to digest.

**Physicsclassroom.com. (2018). *The Physics Classroom*. [online] Available at: https://www.physicsclassroom.com/ [Accessed 2 Nov. 2018].**

Another educational resource but for physics, where myriad concepts undergraduates and graduates in the field will come across In their coursework are explained in detail. The site is also useful as a quick refresher course of basic physical concepts. There are a few pages discussing MRI, and those specific physical concepts.

**MRI Questions & Answers; MR imaging physics & technology. (n.d.). Retrieved from http://mriquestions.com/index.html**

This site is run and updated by an experienced radiologist. It’s an easy to use resource that provides both basic and advanced information surrounding everything MRI.