

Referencing age-appropriate brain template models

Template brains used for age-appropriate models were kindly provided by John E. Richards, University of South Carolina, USA.

If you would like to publish results obtained with the use of the age-specific finite element models, please reference the publications below:

- Richards, J.E., & Xie, W. (2015). Brains for all the ages: Structural neurodevelopment in infants and children from a life-span perspective. In J. Bensen (Ed.), *Advances in Child Development and Behavior* (Vol 48, Chapter 1, pps 1-52)
- Richards, J.E., Sanchez, C., Phillips-Meek, M., & Xie, W. (2015). A database of age-appropriate average MRI templates. *Neuroimage*, doi:10.1016/j.neuroimage.2015.04.055.

In detail, the template brains used are described in the following publications:

- 0-4 years:
 - NIH Pediatric MRI Database (NIHPD; Almli, C. R., Rivkin, M. J., & McKinstry, R. C. (2007). The NIH MRI study of normal brain development (objective-2): Newborns, infants, toddlers, and preschoolers. *Neuroimage*, 35(1), 308-325)
 - Sanchez, C.E., Richards, J.E., & Almli, C.R. (2011). Neurodevelopmental MRI brain templates for children from 2 weeks to 4 years of age, *Developmental Psychobiology*
 - Richards, J.E. (2009). Attention in the brain and early infancy. In S.P. Johnson (Ed.), *Neoconstructivism: The new science of cognitive development*
 - Richards, J.E. (2010). What's inside a baby's head? Structural and functional brain development in infants. International Conference on Infant Studies, Baltimore, MD, March, 2010.
 - Richards, J.E., & Xie, W. (2015). Brains for all the ages: Structural neurodevelopment in infants and children from a life-span perspective. In J. Bensen (Ed.), *Advances in Child Development and Behavior* (Vol 48, Chapter 1, pps 1-52).;
 - Richards, J.E., Sanchez, C., Phillips-Meek, M., & Xie, W. (2015). A database of age-appropriate average MRI templates, *Neuroimage*, doi:10.1016/j.neuroimage.2015.04.055
 - Fillmore, P.T., Richards, J.E., Phillips-Meek, M.C., Cryer, A., & Stevens, M. (2015). Stereotaxic MRI brain atlases for infants from 3 to 12 months of age. *Developmental Neuroscience*, doi:10.1156/000438749
- 6-18 years:
 - NIHPD (Evans, A. C. (2006). The NIH MRI study of normal brain development. *Neuroimage*, 30(1), 184-202.)
 - Sanchez, C.E., Richards, J.E., & Almli, C.R. (2010). Age-specific MRI brain templates for healthy brain development from 4 to 24 years, [Unpublished ms.](#)
 - Sanchez, C.E., Richards, J.E., & Almli, C.R. (2012). Age-specific MRI templates for pediatric neuroimaging. *Developmental Neuropsychology*, 37, 379-399.
 - Richards, J.E., & Xie, W. (2015). Brains for all the ages: Structural neurodevelopment in infants and children from a life-span perspective. In J. Bensen (Ed.), *Advances in Child Development and Behavior* (Vol 48, Chapter 1, pps 1-52)

October 2015

- Richards, J.E., Sanchez, C., Phillips-Meek, M., & Xie, W. (2015). A database of age-appropriate average MRI templates. *Neuroimage*, doi:10.1016/j.neuroimage.2015.04.055.
- 20-24 years:
 - Sanchez, C.E., Richards, J.E., & Almlí, C.R. (2012). Age-specific MRI templates for pediatric neuroimaging. *Developmental Neuropsychology*, 37, 379-399. Fillmore, P.T., Phillips-Meek, M.C., and Richards, J.E. (2013), Age-specific MRI brain and head templates for healthy adults from 20 through 89 years of age. *Frontiers in Aging Neuroscience*.6, doi: 10.3389/fnagi.2015.00044
 - Richards, J.E., & Xie, W. (2015). Brains for all the ages: Structural neurodevelopment in infants and children from a life-span perspective. In J. Bensen (Ed.), *Advances in Child Development and Behavior* (Vol 48, Chapter 1, pps 1-52),
 - Richards, J.E., Sanchez, C., Phillips-Meek, M., & Xie, W. (2015). A database of age-appropriate average MRI templates. *Neuroimage*, doi:10.1016/j.neuroimage.2015.04.055.
 - Work from the IXF and OASIS MRI projects