**Publications**

Ahdidan, J., Raji, C. A., DeYoe, E. A., Mathis, J., Noe, K. Ø., Rimestad, J., Kjeldsen, T. K, Moesgaard, J., Becker, J. B, Lopez, O. (2015). Quantitative Neuroimaging Software for Clinical Assessment of Hippocampal Volumes on MR Imaging. Journal of Alzheimer’s Disease, 49(3), 723–732. doi:10.3233/jad-150559

Knopman, D. S., DeKosky, S. T., Cummings, J. L., Chui, H., Corey-Bloom, J., Relkin, N., Small, G. W., Miller, B., & Stevens, J. C. (2001). Practice parameter: diagnosis of dementia (an evidence-based review). Report of the Quality Standards Subcommittee of the American Academy of Neurology. *Neurology*, *56*(9), 1143–1153. <https://doi.org/10.1212/wnl.56.9.1143>

Morey, R. A., Petty, C. M., Xu, Y., Pannu Hayes, J., Wagner, H. R., Lewis, D. V., … McCarthy, G. (2009). A comparison of automated segmentation and manual tracing for quantifying hippocampal and amygdala volumes. NeuroImage, 45(3), 855–866. doi:10.1016/j.neuroimage.2008.12.033

Morra, J. H., Tu, Z., Apostolova, L. G., Green, A. E., Toga, A. W., & Thompson, P. M. (2010). Comparison of AdaBoost and support vector machines for detecting Alzheimer's disease through automated hippocampal segmentation. *IEEE transactions on medical imaging*, *29*(1), 30–43. <https://doi.org/10.1109/TMI.2009.2021941>

Boccardi, M., Bocchetta, M., Apostolova, L. G., Barnes, J., Bartzokis, G., Corbetta, G., Frisoni, G. B. (2015). Delphi definition of the EADC-ADNI Harmonized Protocol for hippocampal segmentation on magnetic resonance. Alzheimer’s & Dementia, 11(2), 126–138. doi:10.1016/j.jalz.2014.02.009

Sardanelli, F., Bashir, H., Berzaczy, D., Cannella, G., Espeland, A., Flor, N., Helbich, T., Hunink, M., Malone, D. E., Mann, R., Muzzupappa, C., Petersen, L. J., Riklund, K., Sconfienza, L. M., Serafin, Z., Spronk, S., Stoker, J., van Beek, E. J., Vorwerk, D., & Di Leo, G. (2014). The role of imaging specialists as authors of systematic reviews on diagnostic and interventional imaging and its impact on scientific quality: report from the EuroAIM Evidence-based Radiology Working Group. *Radiology*, *272*(2), 533–540. <https://doi.org/10.1148/radiol.14131730>

Jack, C. R., Jr, Shiung, M. M., Gunter, J. L., O'Brien, P. C., Weigand, S. D., Knopman, D. S., Boeve, B. F., Ivnik, R. J., Smith, G. E., Cha, R. H., Tangalos, E. G., & Petersen, R. C. (2004). Comparison of different MRI brain atrophy rate measures with clinical disease progression in AD. *Neurology*, *62*(4), 591–600. <https://doi.org/10.1212/01.wnl.0000110315.26026.ef>

Pantel, J., O’Leary, D. S., Cretsinger, K., Bockholt, H. J., Keefe, H., Magnotta, V. A., & Andreasen, N. C. (2000). A new method for the in vivo volumetric measurement of the human hippocampus with high neuroanatomical accuracy. Hippocampus, 10(6), 752–758. [http://doi:10.1002/1098-1063(2000)10:6<752::aid-hipo1012>3.0.co;2-y](http://doi:10.1002/1098-1063(2000)10:6%3c752::aid-hipo1012%3e3.0.co;2-y)

Tanpitukpongse, T. P., Mazurowski, M. A., Ikhena, J., & Petrella, J. R. (2017). Predictive Utility of Marketed Volumetric Software Tools in Subjects at Risk for Alzheimer Disease: Do Regions Outside the Hippocampus Matter? American Journal of Neuroradiology, 38(3), 546–552. <http://doi:10.3174/ajnr.a5061>

Merrill, David, A. (2017) MRI Volumetrics and CTE: A New Step Toward Detection?<https://practicalneurology.com/articles/2017-july-aug/mri-volumetrics-and-cte-a-new-step-toward-detection>

Bremner, J. D., Randall, P., Scott, T. M., Bronen, R. A., Seibyl, J. P., Southwick, S. M., Delaney, R. C., McCarthy, G., Charney, D. S., & Innis, R. B. (1995). MRI-based measurement of hippocampal volume in patients with combat-related posttraumatic stress disorder. *The American journal of psychiatry*, *152*(7), 973–981. <https://doi.org/10.1176/ajp.152.7.973>

Grover, V. P., Tognarelli, J. M., Crossey, M. M., Cox, I. J., Taylor-Robinson, S. D., & McPhail, M. J. (2015). Magnetic Resonance Imaging: Principles and Techniques: Lessons for Clinicians. *Journal of clinical and experimental hepatology*, *5*(3), 246–255. <https://doi.org/10.1016/j.jceh.2015.08.001>

Huppertz, H.-J., Kröll-Seger, J., Klöppel, S., Ganz, R. E., & Kassubek, J. (2010). Intra- and interscanner variability of automated voxel-based volumetry based on a 3D probabilistic atlas of human cerebral structures. NeuroImage, 49(3), 2216–2224. <http://doi:10.1016/j.neuroimage.2009.10.066>

Song, J., Yang, X., Zhou, Y., Chen, L., Zhang, X., Liu, Z., Niu, W., Zhan, N., Fan, X., Khan, A. A., Kuang, Y., Song, L., He, G., & Li, W. (2019). Dysregulation of neuron differentiation in an autistic savant with exceptional memory. *Molecular brain*, *12*(1), 91. <https://doi.org/10.1186/s13041-019-0507-7>

Szczepanik, J. C., de Almeida, G., Cunha, M. P., & Dafre, A. L. (2020). Repeated Methylglyoxal Treatment Depletes Dopamine in the Prefrontal Cortex, and Causes Memory Impairment and Depressive-Like Behavior in Mice. *Neurochemical research*, *45*(2), 354–370. <https://doi.org/10.1007/s11064-019-02921-2>

Cohen, N. J., Ryan, J., Hunt, C., Romine, L., Wszalek, T., & Nash, C. (1999). Hippocampal system and declarative (relational) memory: summarizing the data from functional neuroimaging studies. *Hippocampus*, *9*(1), 83–98.

[https://doi.org/10.1002/(SICI)1098-1063(1999)9:1<83::AID-HIPO9>3.0.CO;2-7](https://doi.org/10.1002/(SICI)1098-1063(1999)9:1%3c83::AID-HIPO9%3e3.0.CO;2-7)

Amieva, H., Le Goff, M., Millet, X., Orgogozo, J. M., Pérès, K., Barberger-Gateau, P., … Dartigues, J. F. (2008). Prodromal Alzheimer’s disease: Successive emergence of the clinical symptoms. Annals of Neurology, 64(5), 492–498. <http://doi:10.1002/ana.21509>

Centers for Disease control and Prevention. (2020). <https://www.cdc.gov/>

Mayeux, R., & Stern, Y. (2012). Epidemiology of Alzheimer disease. Cold Spring Harbor perspectives in medicine, 2(8), a006239. <https://doi.org/10.1101/cshperspect.a006239>

Ortman, Jennifer M., Victoria A. Velkoff, and Howard Hogan. An Aging Nation: The Older Population in the United States, Current Population Reports, P25-1140. U.S. Census Bureau, Washington, DC. 2014.

Ritchie, H. (2019). The world population is changing: <https://ourworldindata.org/population-aged-65-outnumber-children#licence>

AbuHasan, Q., Reddy, V., & Siddiqui, W. (2020). Neuroanatomy, Amygdala. In *StatPearls*. StatPearls Publishing.

Roostaei, T., Nazeri, A., Sahraian, M. A., & Minagar, A. (2014). The human cerebellum: a review of physiologic neuroanatomy. *Neurologic clinics*, *32*(4), 859–869. <https://doi.org/10.1016/j.ncl.2014.07.013>

Witter, L., & De Zeeuw, C. I. (2015). Regional functionality of the cerebellum. *Current opinion in neurobiology*, *33*, 150–155. <https://doi.org/10.1016/j.conb.2015.03.017>

Lanciego, J. L., Luquin, N., & Obeso, J. A. (2012). Functional neuroanatomy of the basal ganglia. *Cold Spring Harbor perspectives in medicine*, *2*(12), a009621. <https://doi.org/10.1101/cshperspect.a009621>

Hurley, R. A., Flashman, L. A., Chow, T. W., & Taber, K. H. (2010). The brainstem: anatomy, assessment, and clinical syndromes. *The Journal of neuropsychiatry and clinical neurosciences*, *22*(1), iv–7. <https://doi.org/10.1176/jnp.2010.22.1.iv>

Angeles Fernández-Gil, M., Palacios-Bote, R., Leo-Barahona, M., & Mora-Encinas, J. P. (2010). Anatomy of the brainstem: a gaze into the stem of life. *Seminars in ultrasound, CT, and MR*, *31*(3), 196–219. <https://doi.org/10.1053/j.sult.2010.03.006>

Steriade, M., & Llinás, R. R. (1988). The functional states of the thalamus and the associated neuronal interplay. *Physiological reviews*, *68*(3), 649–742. <https://doi.org/10.1152/physrev.1988.68.3.649>

Javed, K., Reddy, V., M Das, J., & Wroten, M. (2020). Neuroanatomy, Wernicke Area. In *StatPearls*. StatPearls Publishing.

Neulinger, K., Oram, J., Tinson, H., O'Gorman, J., & Shum, D. H. (2016). Prospective memory and frontal lobe function. *Neuropsychology, development, and cognition. Section B, Aging, neuropsychology and cognition*, *23*(2), 171–183. <https://doi.org/10.1080/13825585.2015.1069252>

Berlucchi, G., & Vallar, G. (2018). The history of the neurophysiology and neurology of the parietal lobe. *Handbook of clinical neurology*, *151*, 3–30. <https://doi.org/10.1016/B978-0-444-63622-5.00001-2>

Nourski K. V. (2017). Auditory processing in the human cortex: An intracranial electrophysiology perspective. *Laryngoscope investigative otolaryngology*, *2*(4), 147–156. <https://doi.org/10.1002/lio2.73>

Huff, T., Mahabadi, N., & Tadi, P. (2020). Neuroanatomy, Visual Cortex. In *StatPearls*. StatPearls Publishing.

Wimo, A., Guerchet, M., Ali, G. C., Wu, Y. T., Prina, A. M., Winblad, B., Jönsson, L., Liu, Z., & Prince, M. (2017). The worldwide costs of dementia 2015 and comparisons with 2010. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, *13*(1), 1–7. <https://doi.org/10.1016/j.jalz.2016.07.150>.

<https://www.researchgate.net/publication/283049179_Quantitative_Neuroimaging_Software_for_Clinical_Assessment_of_Hippocampal_Volumes_on_MR_Imaging>.

<https://www.eurekalert.org/pub_releases/2015-10/ip-rsv102015.php>.

<https://www.eurekalert.org/pub_releases/2019-10/uoc--sib102219.php>.

<https://pubmed.ncbi.nlm.nih.gov/31874358/>