

Supervisors

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Research Areas

Healthy Individuals:

- ✓ Brain in Various States of Consciousness (Sleep, Wakefulness, Anesthesia, etc.)
- ✓ Evoked-Potentials (Visual, Auditory, Tactile, Olfactory, Gustatory)
- ✓ Event-Related Potentials, Event-Related Oscillations
- ✓ Brain Oxygenation and Thermal Conductivity
- ✓ Electrophysiology and MR/SPECT Brain Image Superposition
- ✓ Brain Asymmetry and Laterality
- ✓ Learning – Memory
- ✓ Plasticity
- ✓ Psychomotor Vigilance Test Battery

Patients and Study Groups:

- ✓ Schizophrenia
- ✓ Parkinson's disease
- ✓ Obsessive Compulsive Disorder (OCD)
- ✓ Attention Deficit And Hyperactivity Disorder (ADHD)
- ✓ Visually Impaired Individuals
- ✓ Hearing Impaired Individuals
- ✓ Laryngectomy Patients
- ✓ Odor Disorders
- ✓ Musicians
- ✓ Professional Athletes

Recent Publications

- Hugdahl K, Løberg EM, Falkenberg LE, Johnsen E, Kompus K, Kroken RA, Nygård M, Westerhausen R, Alptekin K, Özgören M. Auditory verbal hallucinations in schizophrenia as aberrant lateralized speech perception: evidence from dichotic listening. *Schizophr Res.* 2012 Sep;140(1-3):59-64. doi: 10.1016/j.schres.2012.06.019. Epub 2012 Jul 15. PMID: 22796149
- Özgören M, Bayazit O, Oniz A, Hugdahl K. Amplitude and phase-shift effects on dichotic listening performance. *Int J Audiol.* 2012 Aug;51(8):591-6. doi: 10.3109/14992027.2012.680076. Epub 2012 May 8. PMID: 22564139
- Kandemir U, Maltepe F, Ugurlu B, Gokmen N, Celik A. The effects of levosimendan and dobutamine in experimental bupivacaine-induced cardiotoxicity. *BMC Anesthesiol.* 2013 Oct 3;13(1):28. doi: 10.1186/1471-2253-13-28. PMID: 24088357
- Köroğlu TF, Yılmaz O, Gökmen N, Tuğyan K, Baskın H, Eğrilmez MY. Erythropoietin prevents lymphoid apoptosis but has no effect on survival in experimental sepsis. *Pediatr Res.* 2013 Aug;74(2):148-53. doi: 10.1038/pr.2013.86. Epub 2013 May 31. PMID: 23728385
- Erbayraktar Z, Gökmen N, Yılmaz O, Erbayraktar S. Experimental traumatic spinal cord injury. *Methods Mol Biol.* 2013;982:103-12. doi: 10.1007/978-1-62703-308-4_6. PMID: 23456864

- Olgun Y, Kırkım G, Kolatan E, Kıray M, Bağrıyanık A, Şerbetçioğlu B, Yılmaz O, Gökmen N, Ellidokuz H, Kumral A, Sütay S. Otoprotective effect of recombinant erythropoietin in a model of newborn hypoxic-ischemic encephalopathy. *Int J Pediatr Otorhinolaryngol.* 2013 May;77(5):739-46. doi: 10.1016/j.ijporl.2013.01.029. Epub 2013 Feb 20. PMID: 23433994
- Vandenberg N, Unluer EE, Gokmen N, Yurekli I, Okmen E, Yilmaz O, Yigit S, Kara PH. Neuroprotective effects of progesterone in spinal cord ischemia in rabbits. *Am J Emerg Med.* 2013 Mar;31(3):581-4. doi: 10.1016/j.ajem.2012.09.025. Epub 2012 Nov 16. PMID: 23159424
- Mengozzi M, Cervellini I, Villa P, Erbayraktar Z, Gökmen N, Yılmaz O, Erbayraktar S, Manohasandra M, Van Hummelen P, Vandenaabeele P, Chernajovsky Y, Annenkov A, Ghezzi P. Erythropoietin-induced changes in brain gene expression reveal induction of synaptic plasticity genes in experimental stroke. *Proc Natl Acad Sci U S A.* 2012 Jun 12;109(24):9617-22. doi: 10.1073/pnas.1200554109. Epub 2012 May 29. PMID: 22645329
- Ozgoren M, Bayazit O, Oniz A, Hugdahl K. Amplitude and phase-shift effects on dichotic listening performance. *Int J Audiol.* 2012 Aug;51(8):591-6. doi: 10.3109/14992027.2012.680076. Epub 2012 May 8. PMID: 22564139
- Hapa O, Bedi A, Gursan O, Akar MS, Güvencer M, Havitçioğlu H, Larson CM. Anatomic footprint of the direct head of the rectus femoris origin: cadaveric study and clinical series of hips after arthroscopic anterior inferior iliac spine/subspine decompression. *Arthroscopy.* 2013 Dec;29(12):1932-40. doi: 10.1016/j.arthro.2013.08.023. Epub 2013 Oct 18. PMID: 24140143
- Iyem C, Güvencer M, Karatosun V, Unver B. Morphometric evaluation of proximal femur in patients with unilateral total hip prosthesis. *Clin Anat.* 2014 Apr;27(3):478-88. doi: 10.1002/ca.22245. Epub 2013 May 6. PMID: 23650122
- Sayhan S, Guvencer M, Ozer E, Arda MN. Morphometric evaluation of parasagittal venous anatomy for intracranial approaches: a cadaveric study. *Turk Neurosurg.* 2012;22(5):540-6. doi: 10.5137/1019-5149.JTN.4086-11.3. PMID: 23015329

• Ph.D. Programs