

University of Washington, Department of Neurological Surgery
Peer-Review Faculty Publications, Books, and Book Chapters
Jan-December 2013

→Key: **Bold** – Primary Departmental Faculty; *ItalicsUnderlined* – *Neurosurgery Residents*; *Italics*, *Fellows*

Peer-Review Journal Articles, N=138
Book Chapters, N=4
Patents, N=2

Book Chapters: N=4

1. Abeshaus S, **Browd S, Ellenbogen RG**. Ventricular shunt malfunction. In: Ullman JS, Raskin PB, Ellegala DB, editors. Atlas of Emergency Neurosurgery. New York: Thieme; 2013.
2. Czosnyka M, Schmidt B, Schmidt EA, *Ramakrishna R*, **Mourad PD, Kliot M**. Non-invasive brain monitoring. In: LeRoux PD, Levine J, Kofke WA, editors. Monitoring in Neurocritical Care. 1 ed. Philadelphia: Saunders; 2013. p. Release March 2013.
3. **Ellenbogen RG**, Scott MR. Choroid plexus tumors. In: Keating RF, Goodrich JT, Packer RJ, editors. Tumors of the Pediatric Central Nervous System. 2nd edition ed. New York: Thieme; 2013. p. Chapter 24.
4. **Mourad PD**. Therapeutic Ultrasound, with an emphasis on applications to the brain. In: Nakamura K, Ueha S, editors. Ultrasonic transducers - materials design and application. Cambridge UK: Woodhead Publishing Ltd.; 2013.

Patents: N=2

1. **D'Ambrosio R**, Smyth M, Rothman SM, Miller JW, Fender JS, inventors; University of Washington (Seattle, WA); Regents of the University of Minnesota (Saint Paul, MN); Washington University in St. Louis (St. Louis, MO) assignees. Methods and Devices for Brain Cooling for Treatment and Prevention of Acquired Epilepsy. US patent# 8,591,562. Issue Date: 11/26/2013.
2. Friedman DCW, Hannaford B, Karns D, Kim AZ, **Kim LJ**, Lendvay TS, Moe KS, **Pridgeon J**, Rosen D, **Sekhar LN**, inventors; SPI Surgical, Inc, Seattle WA, assignee. INTRODUCER DEVICE. US patent# 8,617,197. Issue date: 12/31/2013.

Peer-Review Journal Articles: N=138

1. Agus DB, Alexander JF, Arap W, Ashili S, Aslan JE, Austin RH, Backman V, Bethel KJ, Bonneau R, Chen WC, Chen-Tanyolac C, Choi NC, Curley SA, Dallas M, Damania D, Davies PC, Decuzzi P, Dickinson L, Estevez-Salmeron L, Estrella V, Ferrari M, Fischbach C, Foo J, Fraley SI, Frantz C, Fuhrmann A, Gascard P, Gatenby RA, Geng Y, Gerecht S, Gillies RJ, Godin B, Grady WM, Greenfield A, Hemphill C, Hempstead BL, Hielscher A, Hillis WD, **Holland EC**, Ibrahim-Hashim A, Jacks T, Johnson RH, Joo A, Katz JE, Kelbauskas L, Kesselman C, King MR, Konstantopoulos K, Kraning-Rush CM, Kuhn P, Kung K, Kwee B, Lakins JN, Lambert

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G, Liao D, Licht JD, Liphardt JT, Liu L, Lloyd MC, Lyubimova A, Mallick P, Marko J, McCarty OJ, Meldrum DR, Michor F, Mumenthaler SM, Nandakumar V, O'Halloran TV, Oh S, Pasqualini R, Paszek MJ, Philips KG, Poultney CS, Rana K, Reinhart-King CA, Ros R, Semenza GL, Senechal P, Shuler ML, Srinivasan S, Staunton JR, Stypula Y, Subramanian H, Tlsty TD, Tormoen GW, Tseng Y, van Oudenaarden A, Verbridge SS, Wan JC, Weaver VM, Widom J, Will C, Wirtz D, Wojtkowiak J, Wu PH. A physical sciences network characterization of non-tumorigenic and metastatic cells. *Sci Rep.* 2013;3:1449. PMID:23618955 PMC: 3636513

2. Allen T, Garcia Iii AJ, Tang J, **Ramirez JM**, Rubens DD. Inner ear insult ablates the arousal response to hypoxia and hypercarbia. *Neuroscience.* 2013;253:283-91. PMC: 3988803

3. Arbab MH, Winebrenner DP, Dickey TC, Chen A, Klein MB, **Mourad PD**. Terahertz spectroscopy for the assessment of burn injuries in vivo. *J Biomed Opt.* 2013;18(7):077004. PMID:23860943

4. Baltan S, **Morrison RS**, **Murphy SP**. Novel protective effects of histone deacetylase inhibition on stroke and white matter ischemic injury. *Neurotherapeutics.* 2013;10(4):798-807. PMID:23881453 PMC: 3805855

5. Barker MD, Whyte J, Pretz CR, Sherer M, **Temkin N**, Hammond FM, Saad Z, Novack T. Application and Clinical Utility of the Glasgow Coma Scale Over Time: A Study Employing the NIDRR Traumatic Brain Injury Model Systems Database. *J Head Trauma Rehabil.* 2013. PMID:23535391

6. Bloch O, **Crane CA**, Kaur R, Safaee M, Rutkowski MJ, Parsa AT. Gliomas promote immunosuppression through induction of B7-H1 expression in tumor-associated macrophages. *Clin Cancer Res.* 2013;19(12):3165-75. PMID:23613317 PMC: 3742575

7. Bly RA, *Su D*, Lendvay TS, Friedman D, Hannaford B, **Ferreira M**, Moe KS. Multiportal robotic access to the anterior cranial fossa: a surgical and engineering feasibility study. *Otolaryngol Head Neck Surg.* 2013;149(6):940-6. PMID:24154747

8. Brackett DM, Qing F, Amieux PS, Sellers DL, **Horner PJ**, Morris DR. FMR1 transcript isoforms: association with polyribosomes; regional and developmental expression in mouse brain. *PLoS one.* 2013;8(3):e58296. PMID:23505481 PMC: 3591412

9. Carroll MS, **Ramirez JM**. Cycle-by-cycle assembly of respiratory network activity is dynamic and stochastic. *J Neurophysiol.* 2013;109(2):296-305. PMID:22993257 PMC: 3545454

10. Carroll MS, Viemari JC, **Ramirez JM**. Patterns of inspiratory phase-dependent activity in the in vitro respiratory network. *J Neurophysiol.* 2013;109(2):285-95. PMC: 3545453

11. Cheah CS, Westenbroek RE, Roden WH, **Kalume F**, Oakley JC, Jansen LA, Catterall WA. Correlations in timing of sodium channel expression, epilepsy, and sudden death in Dravet syndrome. *Channels (Austin).* 2013;7(6):468-72. PMID:23965409 PMC: 4042481

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12. **Chesnut RM**. Intracranial pressure monitoring for brain injury. *Journal of neurosurgery*. 2013;119(5):1226; discussion 7. PMID:23909242
13. **Chesnut RM**. Intracranial pressure monitoring: headstone or a new head start. The BEST TRIP trial in perspective. *Intensive Care Med*. 2013;39(4):771-4. PMC: 3732471
14. **Chesnut RM**, Petroni G, Rondina C. Intracranial-pressure monitoring in traumatic brain injury. *N Engl J Med*. 2013;368(18):1751-2. PMID:23635057
15. Clark VE, Erson-Omay EZ, Serin A, Yin J, Cotney J, Ozduman K, Avsar T, Li J, Murray PB, Henegariu O, Yilmaz S, Gunel JM, Carrion-Grant G, Yilmaz B, Grady C, Tanrikulu B, Bakircioglu M, Kaymakcalan H, Caglayan AO, Sencar L, Ceyhun E, Atik AF, Bayri Y, Bai H, Kolb LE, Hebert RM, Omay SB, Mishra-Gorur K, Choi M, Overton JD, **Holland EC**, Mane S, State MW, Bilguvar K, Baehring JM, Gutin PH, Piepmeier JM, Vortmeyer A, Brennan CW, Pamir MN, Kilic T, Lifton RP, Noonan JP, Yasuno K, Gunel M. Genomic analysis of non-NF2 meningiomas reveals mutations in TRAF7, KLF4, AKT1, and SMO. *Science*. 2013;339(6123):1077-80. PMID:23348505
16. **D'Ambrosio R**, Eastman CL, **Darvas F**, Fender JS, Verley DR, Farin FM, Wilkerson HW, **Temkin NR**, Miller JW, **Ojemann J**, Rothman SM, Smyth MD. Mild passive focal cooling prevents epileptic seizures after head injury in rats. *Ann Neurol*. 2013;73(2):199-209. PMID:23225633 PMC: 3608748
17. **D'Ambrosio R**, Eastman CL, Fattore C, Perucca E. Novel frontiers in epilepsy treatments: preventing epileptogenesis by targeting inflammation. *Expert Rev Neurother*. 2013;13(6):615-25. PMID:23738999
18. **Darvas F**, Rao RP, Murias M. Localized high gamma motor oscillations respond to perceived biologic motion. *J Clin Neurophysiol*. 2013;30(3):299-307. PMC: 3675661
19. de Hemptinne C, Ryapolova-Webb ES, Air EL, Garcia PA, Miller KJ, **Ojemann JG**, Ostrem JL, Galifianakis NB, Starr PA. Exaggerated phase-amplitude coupling in the primary motor cortex in Parkinson disease. *Proc Natl Acad Sci U S A*. 2013;110(12):4780-5. PMID:23471992 PMC: 3606991
20. Della Santina L, Inman DM, Lupien CB, **Horner PJ**, Wong RO. Differential progression of structural and functional alterations in distinct retinal ganglion cell types in a mouse model of glaucoma. *J Neurosci*. 2013;33(44):17444-57. PMID:24174678 PMC: 3812509
21. Di Maio S, Kong E, Yip S, **Rostomily R**. Converging paths to progress for skull base chordoma: Review of current therapy and future molecular targets. *Surg Neurol Int*. 2013;4:72. PMID:23776758 PMC: 3683175

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22. Doorenbos AZ, Gordon DB, Tauben D, Palisoc J, Drangsholt M, Lindhorst T, Danielson J, Spector J, Ballweg R, Vorvick L, **Loeser JD**. A Blueprint of Pain Curriculum Across Prelicensure Health Sciences Programs: One NIH Pain Consortium Center of Excellence in Pain Education (CoEPE) Experience. *The journal of pain : official journal of the American Pain Society*. 2013;14(12):1533-8. PMID:24094694 PMC: 3855868
23. Drane DL, **Ojemann JG**, Phatak V, Loring DW, Gross RE, **Hebb AO**, **Silbergeld DL**, Miller JW, Voets NL, Saindane AM, Barsalou L, Meador KJ, **Ojemann GA**, Tranel D. Famous face identification in temporal lobe epilepsy: Support for a multimodal integration model of semantic memory. *Cortex*. 2013;49(6):1648-67. PMID:23040175 PMC: 3679345
24. Dworkin RH, O'Connor AB, Kent J, Mackey SC, Raja SN, Stacey BR, Levy RM, Backonja M, Baron R, Harke H, **Loeser JD**, Treede RD, Turk DC, Wells CD. Interventional management of neuropathic pain: NeuPSIG recommendations. *Pain*. 2013;154(11):2249-61. PMID:23748119
25. Elsen GE, Hodge RD, Bedogni F, Daza RA, **Nelson BR**, Shiba N, Reiner SL, **Hvner RF**. The protomap is propagated to cortical plate neurons through an Eomes-dependent intermediate map. *Proc Natl Acad Sci U S A*. 2013;110(10):4081-6. PMC: 3593833
26. Florczyk SJ, Wang K, Jana S, Wood DL, Sytsma SK, Sham JG, **Kievit FM**, Zhang M. Porous chitosan-hyaluronic acid scaffolds as a mimic of glioblastoma microenvironment ECM. *Biomaterials*. 2013;34(38):10143-50. PMID:24075410 PMC: 3843957
27. Garcia AJ, 3rd, Koschnitzky JE, Dashevskiy T, **Ramirez JM**. Cardiorespiratory coupling in health and disease. *Auton Neurosci*. 2013;175(1-2):26-37. PMID:23497744 PMC: 3683976
28. Garcia AJ, 3rd, Koschnitzky JE, **Ramirez JM**. The physiological determinants of Sudden Infant Death Syndrome. *Respir Physiol Neurobiol*. 2013;189(2):288-300. PMC: 3812300
29. Garcia AJ, 3rd, Rotem-Kohavi N, Doi A, **Ramirez JM**. Post-hypoxic recovery of respiratory rhythm generation is gender dependent. *PloS one*. 2013;8(4):e60695. PMID:23593283 PMC: 3620234
30. Garcia JD, Gofeld M, Illian PR, **Loeser JD**, **Kliot M**, McClintic AM, Ward A, Yao A, **Mourad PD**. Intense focused ultrasound as a potential research tool for the quantification of diurnal inflammatory pain. *Ultrasonics*. 2013;53(1):84-9. PMID:22564395 PMC: 3510000
31. **Hebb AO**, **Ojemann GA**. The thalamus and language revisited. *Brain Lang*. 2013;126(1):99-108. PMID:22857902
32. Hodge RD, Garcia AJ, 3rd, Elsen GE, **Nelson BR**, Mussar KE, Reiner SL, **Ramirez JM**, **Hvner RF**. Tbr2 expression in Cajal-Retzius cells and intermediate neuronal progenitors is required for morphogenesis of the dentate gyrus. *J Neurosci*. 2013;33(9):4165-80. PMID:23447624 PMC: 3623668

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33. Hou P, Zeng W, Gan G, Lv C, Guo X, Zhang Z, Liu H, Wu Y, Yao J, **Wei AD**, Wang S, Ding J. Inter-alpha/beta subunits coupling mediating pre-inactivation and augmented activation of BKCa(beta2). *Sci Rep*. 2013;3:1666. PMID:23588888 PMC: 3627188
34. Hsu YW, Tempest L, Quina LA, **Wei AD**, Zeng H, Turner EE. Medial habenula output circuit mediated by alpha5 nicotinic receptor-expressing GABAergic neurons in the interpeduncular nucleus. *J Neurosci*. 2013;33(46):18022-35. PMID:24227714 PMC: 3828458
35. Huber BR, Meabon JS, Martin TJ, **Mourad PD**, Bennett R, Kraemer BC, Cernak I, Petrie EC, Emery MJ, Swenson ER, Mayer C, Mehic E, Peskind ER, Cook DG. Blast exposure causes early and persistent aberrant phospho- and cleaved-tau expression in a murine model of mild blast-induced traumatic brain injury. *J Alzheimers Dis*. 2013;37(2):309-23. PMID:23948882
36. Huilgol D, Udin S, Shimogori T, Saha B, Roy A, Aizawa S, **Hevner RF**, Meyer G, Ohshima T, Pleasure SJ, Zhao Y, Tole S. Dual origins of the mammalian accessory olfactory bulb revealed by an evolutionarily conserved migratory stream. *Nat Neurosci*. 2013;16(2):157-65. PMID:23292680
37. Huse JT, **Holland E**, DeAngelis LM. Glioblastoma: molecular analysis and clinical implications. *Annu Rev Med*. 2013;64:59-70. PMID:23043492
38. Inman DM, Lambert WS, Calkins DJ, **Horner PJ**. alpha-Lipoic acid antioxidant treatment limits glaucoma-related retinal ganglion cell death and dysfunction. *PloS one*. 2013;8(6):e65389. PMID:23755225 PMC: 3673940
39. Iyer P, Srinivasan A, Singh SK, Mascara GP, Zayitova S, Sidone B, Fouquerel E, Svilar D, Sobol R, Bobola MS, **Silber JR**, Gold B. Synthesis and Characterization of DNA Minor Groove Binding Alkylating Agents. *CHEMICAL RESEARCH IN TOXICOLOGY*. 2013;53.
40. Jacobs MA, **Avellino AM**, Shurtleff D, Lendvay TS. Reinnervating the penis in spina bifida patients in the United States: ilioinguinal-to-dorsal-penile neuroorrhaphy in two cases. *J Sex Med*. 2013;10(10):2593-7. PMID:23844557
41. James GA, Tripathi SP, **Ojemann JG**, Gross RE, Drane DL. Diminished default mode network recruitment of the hippocampus and parahippocampus in temporal lobe epilepsy. *Journal of neurosurgery*. 2013;119(2):288-300. PMID:23706058 PMC: 3924788
42. Jimenez N, Ebel BE, Wang J, Koepsell TD, Jaffe KM, Dorsch A, Durbin D, Vavilala MS, **Temkin N**, Rivara FP. Disparities in disability after traumatic brain injury among Hispanic children and adolescents. *Pediatrics*. 2013;131(6):e1850-6. PMID:23650302 PMC: 3666112
43. Johnson LA, Wander JD, Sarma D, *Su DK*, Fetz EE, **Ojemann JG**. Direct electrical stimulation of the somatosensory cortex in humans using electrocorticography electrodes: a qualitative and quantitative report. *J Neural Eng*. 2013;10(3):036021. PMC: 3718452

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44. Kalani MY, Zabramski JM, **Kim LJ**, Chowdhry SA, Mendes GA, Nakaji P, McDougall CG, Albuquerque FC, Spetzler RF. Long-term follow-up of blister aneurysms of the internal carotid artery. *Neurosurgery*. 2013;73(6):1026-33; discussion 33. PMID:24056320
45. **Kalume F**. Sudden unexpected death in Dravet syndrome: respiratory and other physiological dysfunctions. *Respir Physiol Neurobiol*. 2013;189(2):324-8. PMID:23850567
46. **Kalume F**, Westenbroek RE, Cheah CS, Yu FH, Oakley JC, Scheuer T, Catterall WA. Sudden unexpected death in a mouse model of Dravet syndrome. *J Clin Invest*. 2013;123(4):1798-808. PMID:23524966 PMC: 3613924
47. Kasten MR, Sunshine MD, Secrist ES, **Horner PJ**, Moritz CT. Therapeutic intraspinal microstimulation improves forelimb function after cervical contusion injury. *J Neural Eng*. 2013;10(4):044001. PMID:23715242 PMC: 3748939
48. *Kazemi N*, Crew LK, **Tredway TL**. The future of spine surgery: New horizons in the treatment of spinal disorders. *Surg Neurol Int*. 2013;4(Suppl 1):S15-21. PMC: 3642747
49. Kernic MA, Rivara FP, Zatzick DF, Bell MJ, Wainwright MS, Groner JI, Giza CC, Mink RB, **Ellenbogen RG**, Boyle L, Mitchell PH, Kannan N, Vavilala MS. Triage of children with moderate and severe traumatic brain injury to trauma centers [For The Pegasus Pediatric Guideline, Adherence Outcomes Project]. *Journal of neurotrauma*. 2013;30(13):1129-36. PMID:23343131 PMC: 3700462
50. **Kievit FM**, Cooper A, Jana S, Leung MC, Wang K, Edmondson D, Wood D, Lee JS, **Ellenbogen RG**, Zhang M. Aligned chitosan-polycaprolactone polyblend nanofibers promote the migration of glioblastoma cells. *Adv Healthc Mater*. 2013;2(12):1651-9. PMC: 3859701
51. **Kim LJ**, Tariq F, **Sekhar LN**. Pediatric bypasses for aneurysms and skull base tumors: short- and long-term outcomes. *Journal of neurosurgery Pediatrics*. 2013;11(5):533-42. PMID:23452030
52. *Ko A*, *Su DK*, Born D, DeSantis A, Failor AR, **Ferreira M, Jr**. Two patients with primary sellar leiomyomas, a rare entity. *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*. 2013;20(6):897-901. PMID:23219820
53. *Ko AL*, *Nerva JD*, *Chang JJ*, **Chesnut RM**. Traumatic Fracture of a Polymethyl Methacrylate Patient-Specific Cranioplasty Implant. *World neurosurgery*. 2013. PMID:24056094
54. *Ko AL*, Weaver KE, Hakimian S, **Ojemann JG**. Identifying functional networks using endogenous connectivity in gamma band electrocorticography. *Brain Connect*. 2013;3(5):491-502. PMID:23879617 PMC: 3796331
55. Koch H, Zanella S, Elsen GE, Smith L, Doi A, Garcia AJ, 3rd, **Wei AD**, Xun R, Kirsch S, Gomez CM, **Hevner RF**, **Ramirez JM**. Stable respiratory activity requires both P/Q-type and N-

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type voltage-gated calcium channels. *J Neurosci*. 2013;33(8):3633-45. PMID:23426690 PMC: 3652398

56. Kovach C, Dixit R, Li S, Mattar P, Wilkinson G, Elsen GE, Kurrasch DM, **Hevner RF**, Schuurmans C. Neurog2 simultaneously activates and represses alternative gene expression programs in the developing neocortex. *Cereb Cortex*. 2013;23(8):1884-900. PMID:22735158

57. Kulkarni AV, Riva-Cambrin J, Butler J, **Browd SR**, Drake JM, Holubkov R, Kestle JR, Limbrick DD, Simon TD, Tamber MS, Wellons JC, 3rd, Whitehead WE. Outcomes of CSF shunting in children: comparison of Hydrocephalus Clinical Research Network cohort with historical controls: clinical article. *Journal of neurosurgery Pediatrics*. 2013;12(4):334-8. PMID:23909616

58. **Lee A**, Chen ML, Abeshaus S, Poliakov A, **Ojemann JG**. Posterior fossa tumors and their impact on sleep and ventilatory control: a clinical perspective. *Respir Physiol Neurobiol*. 2013;189(2):261-71. PMID:23727229

59. *Levitt MR*, Ghodke BV, Hallam DK, **Sekhar LN**, **Kim LJ**. Incidence of microemboli and correlation with platelet inhibition in aneurysmal flow diversion. *AJNR Am J Neuroradiol*. 2013;34(12):2321-5. PMID:23811975

60. *Levitt MR*, Levitt R, **Silbergeld DL**. Controversies in the management of brain metastases. *Surg Neurol Int*. 2013;4(Suppl 4):S231-5. PMID:23717794 PMC: 3656559

61. *Levitt MR*, Vaidya SS, *Su DK*, Moe KS, **Kim LJ**, **Sekhar LN**, Hallam DK, Ghodke BV. The "triple-overlay" technique for percutaneous diagnosis and treatment of lesions of the head and neck: combined three-dimensional guidance with magnetic resonance imaging, cone-beam computed tomography, and fluoroscopy. *World neurosurgery*. 2013;79(3-4):509-14. PMID:22484075

62. Li H, Alavian KN, Lazrove E, Mehta N, Jones A, Zhang P, Licznanski P, Graham M, Uo T, Guo J, Rahner C, Duman RS, **Morrison RS**, Jonas EA. A Bcl-xL-Drp1 complex regulates synaptic vesicle membrane dynamics during endocytosis. *Nat Cell Biol*. 2013;15(7):773-85. PMID:23792689 PMC: 3725990

63. **Loeser JD**. Can we change the culture of pain management? *Pain News [British Pain Society]*. 2013;11(4):208-11.

64. **Loeser JD**, Cahana A. Pain medicine versus pain management: ethical dilemmas created by contemporary medicine and business. *The Clinical journal of pain*. 2013;29(4):311-6. PMID:23462285

65. Lutz BR, Venkataraman P, **Browd SR**. New and improved ways to treat hydrocephalus: Pursuit of a smart shunt. *Surg Neurol Int*. 2013;4(Suppl 1):S38-50. PMC: 3642745

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66. Machamer J, **Temkin N**, Dikmen S. Health-related quality of life in traumatic brain injury: is a proxy report necessary? *Journal of neurotrauma*. 2013;30(22):1845-51. PMC: 3814818
67. *Mai JC*, Ramanathan D, **Kim LJ**, **Sekhar LN**. Surgical resection of cavernous malformations of the brainstem: evolution of a minimally invasive technique. *World neurosurgery*. 2013;79(5-6):691-703. PMID:23017589
68. *Mai JC*, Tariq F, **Kim LJ**, **Sekhar LN**. Flow diversion radial artery bypass graft coupled with terminal basilar artery occlusion for the treatment of complex basilar apex aneurysms: operative nuances. *Neurosurgery*. 2013;72(2 Suppl Operative):ons116-26; discussion ons26. PMID:23313975
69. Malik S, Vinukonda G, Vose LR, Diamond D, Bhimavarapu BB, Hu F, Zia MT, **Hevner R**, Zecevic N, Ballabh P. Neurogenesis continues in the third trimester of pregnancy and is suppressed by premature birth. *J Neurosci*. 2013;33(2):411-23. PMC: 3711635
70. Mantovani A, *Di Maio S*, **Ferreira MJ**, **Sekhar LN**. Management of Meningiomas Invading the Major Dural Venous Sinuses: Operative Technique, Results, and Potential Benefit for Higher Grade Tumors. *World neurosurgery*. 2013. PMID:23851229
71. Marzban C, Illian PR, Morison D, Moore A, **Kliot M**, Czosnyka M, **Mourad PD**. A method for estimating zero-flow pressure and intracranial pressure. *J Neurosurg Anesthesiol*. 2013;25(1):25-32. PMID:22824923 PMC: 3524356
72. Marzban C, Illian PR, Morison D, **Mourad PD**. A double-gaussian, percentile-based method for estimating maximum blood flow velocity. *J Ultrasound Med*. 2013;32(11):1913-20. PMID:24154894
73. McClintic AM, Dickey TC, Gofeld M, Illian PR, **Kliot M**, Kucewicz JC, **Loeser JD**, Richebe PG, **Mourad PD**. Rapid ultrasonic stimulation of inflamed tissue with diagnostic intent. *J Acoust Soc Am*. 2013;134(2):1521-9. PMID:23927192 PMC: 3745493
74. McClintic AM, Dickey TC, Gofeld M, **Kliot M**, **Loeser JD**, Richebe P, **Mourad PD**. Intense focused ultrasound preferentially stimulates subcutaneous and focal neuropathic tissue: preliminary results. *Pain Med*. 2013;14(1):84-92. PMID:23137045 PMC: 3547133
75. McCrory P, Meeuwisse W, Aubry M, Cantu B, Dvorak J, Echemendia R, Engebretsen L, Johnston K, Kutcher J, Raftery M, Sills A, Benson B, Davis G, **Ellenbogen R**, Guskiewicz K, Herring SA, Iverson G, Jordan B, Kissick J, McCrea M, McIntosh A, Maddocks D, Makdissi M, Purcell L, Putukian M, Schneider K, Tator C, Turner M. Consensus statement on Concussion in Sport - The 4th International Conference on Concussion in Sport held in Zurich, November 2012. *Phys Ther Sport*. 2013;14(2):e1-e13. PMID:23664041
76. McCrory P, Meeuwisse W, Aubry M, Cantu B, Dvorak J, Echemendia RJ, Engebretsen L, Johnston K, Kutcher JS, Raftery M, Sills A, Benson BW, Davis GA, **Ellenbogen RG**,

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Guskiewicz KM, Herring SA, Iverson G, Jordan BD, Kissick J, McCrea M, McIntosh AS, Maddocks DL, Makdissi M, Purcell L, Putukian M, Turner M, Schneider K, Tator CH. Consensus statement on concussion in sport--the 4th International Conference on Concussion in Sport held in Zurich, November 2012. *Clin J Sport Med*. 2013;23(2):89-117. PMID:23478784

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