CURRICULUM VITAE

R. JARRETT RUSHMORE III

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Academic Training:

1995	B.S. (Neuroscience), Trinity College, Hartford, CT
2004	Ph.D. (Anatomy and Neurobiology) Boston University, Boston, MA

Additional Training:

5/04-8/04	Postdoctoral Fellow in Anatomy and Neurobiology, Boston University School of Medicine,
	Boston, MA

Academic Appointments:

9/04-2/07	Instructor of Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA
2/07-present	Assistant Professor of Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA

Other Appointments or Other Employment:

6/95-8/97	Research Technician, Boston University School of Medicine, Boston, MA
9/05-5/06	Senior Lecturer, School of Professional and Continuing Studies, Northeastern University, Boston, MA
8/09-8/10	Visiting Scientist, Max Planck Institute for Brain Research / Darmstadt Technical University, Frankfurt, Germany
7/06-present	Faculty Member, Division of Graduate Medical Science, Boston University School of Medicine, Boston, MA
3/19-present	Visiting Faculty, Ross University, Bridgetown Barbados, W.I.
6/14-present	Faculty Member, Undergraduate Program in Neuroscience, Boston University, Boston MA
7/18-present	Research Scientist, Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital, Boston, MA
5/19-present	Research Scientist, Center for Morphometric Analysis, Massachusetts General Hospital, Boston, MA

Honors and Awards:

05/04	Henry I. Russek Achievement Award, Boston University School of Medicine,
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05/06-05/15	Nominee for Educator of the Year Award for Graduate and/or Preclinical Sciences (Annually) Boston University School of Medicine
05/08	Educator of the Year Award in Graduate Sciences, Boston University School of Medicine,
05/08	Nominee - American Association of Anatomists - C.J. Herrick Young Investigator Award
05/08, 05/16	Nominee – Metcalf Award for Excellence in Teaching (All University) – Boston University
05/09,-11,-13,-15	Nominee – Robbins Award for Excellence in Teaching – Boston Univ School Med
07/09	Deutscher Akademischer Austausch Dientst (DAAD) faculty award grant
05/14	Educator of the Year in Preclinical Sciences, Boston University School of Medicine
09/16	Mid-Career Faculty Leadership Program, Boston University School of Medicine
01/16	SCOMSA Faculty Award, "The Extra Miler," Boston University School of Medicine
05/17	Stanley Robbins Award for Excellence in Teaching (Highest teaching award at BUSM)– Boston University School of Medicine
02/19	SCOMSA Faculty Award, "The Illustrator," Boston University School of Medicine

Departmental and University Committees

Department of Anatomy and Neurobiology, Boston University School of Medicine

06/04-06/06	Library Committee
06/06-08/13	Graduate Student Committee
06/07-06/10	Seminar Coordinator
06/08-08/13	Chairman, Graduate Student Committee
06/08-08/13	Director of Graduate Studies
06/08-08/13	Director of Admissions
09/09-09/12	Organizer and Creator, In-house graduate Student Seminar Series
09/10-06/17	Vesalius Teaching Project Evaluation Committee
01/10-09/10	Neurobiology of Education Working Group
05/10-08/10	Committee on Post-Qualifying Exam Procedures (Ad Hoc)
04/12-05/13	Department of Anatomy and Neurobiology Website Administrator
09/13-09/16	Ombudsman, Department of Anatomy and Neurobiology
05/15-06/17	Executive committee
05/15-05/17	Committee on Graduate Education – Department Review
01/16-06/17	Task Force on Diversity
01/19-pres	Qualifying Examination Committee

Division of Graduate Medical Sciences, Boston University School of Medicine

06/08-08/13	Ph.D. Programs Steering Committee
06/08-08/13	M.A. Programs Steering Committee
06/08-08/13	Russek Award Committee

02/09-04/09	Committee for Faculty Affairs Educator of the Year Subcommittee
02/10-09/10	Working group on integrated curriculum (Foundation in Biomedical Sciences I)
04/11-08/12	Committee on Integrated Curriculum (Foundation in Biomedical Sciences II)
05/11-05/11	Student Marshall, Graduate Medical Sciences Graduation
06/11-08/13	Admissions Committee – O.D./ Ph.D. program
02/15-04/15	Committee for Faculty Affairs Educator of the Year Subcommittee

Chair of Doctoral Thesis Committees:

03/09-04/09	Fred Powell (M.D./Ph.D.)
03/11-04/11	Patrick Scott (O.D./Ph.D.)
03/12-04/12	Kathy Kopeikina (Ph.D.)
03/12-04/12	Corinna Bauer (Ph.D.)
03/12-04/12	William Pearson (Ph.D.)
03/12-04/12	Kelley Erb (Ph.D.)
03/12-04/12	Darshan Trivedi (M.D., Ph.D.)
03/12-04/12	Kevin Bickart (M.D., Ph.D.)
02/14-05/14	Jonathan Dashkoff (M.D., Ph.D.)
03/15-05/15	Julie Stamm (Ph.D.)
02/16-05/16	Danielle Farrar (M.D., Ph.D.)
01/19-07/19	Lauren Zajac (Ph.D.)

Medical School, Boston University School of Medicine

05/07-10/11	Institutional Animal Care and Use Committee (IACUC)
09/07-08/13	School of Medicine Appeals Committee (Elected by Medical Student Body)
08/19-pres	School of Medicine Appeals Committee (Elected by Medical Student Body)
06/13-05/17	Pre-clerkship Curriculum Subcommittee (PCS) of the Medical Education Committee
06/14-07/15	Foundational Sciences Curriculum Committee
07/14-08/14	Syllabi Citation Guidelines Committee
03/15-03/15	AOA Criteria Working Group
03/15-07/18	Institutional Radiation Safety Committee
01/15-08/17	Integration of Foundational and Clinical Sciences Subcommittee
09/15-06/17	Facilitator, Training the Mentor Program
05/16-07/17	BUSM30 Subcommittee of the PCS

Teaching Experience and Responsibilities

01/06 – 06/17 Methods in Neurosciences (AN718) – Interdepartmental Graduate Course, Boston University School of Medicine, Boston, MA Role: Lecturer

08/11-07/17	Cellular Organization of Tissues (AN722) – Master of Science in Medical Sciences Program Graduate Course, Boston University School of Medicine, Boston, MA Roles: Lecturer, Laboratory Instructor
09/12 – pres.	Systems Neurobiology (AN810) - Interdepartmental Graduate Course, Boston University School of Medicine, Boston, MA Role: Lecturer, course co-director (2019-pres)
01/14 – pres.	Advanced Human Neuroanatomy (AN724) - Department of Anatomy and Neurobiology Graduate Course, Boston University School of Medicine, Boston, MA Roles: Course Director, Course Creator, Laboratory Instructor
01/14 –pres.	Disease and Therapy - Neurology block (MS224) - Second year medical school course, Boston University School of Medicine, Boston, MA Role: Lecturer
08/15 –pres.	Principles Integrating Science and Medicine –Cells to Tissues Module, First year Medical School Course, Boston University School of Medicine, Boston MA Roles: Lecturer, Small-group discussion leader
8/15 – pres.	Principles Integrating Science and Medicine –Body Structures Module, First year Medical School Course, Boston University School of Medicine, Boston MA Roles: Co-Course Director, Lecturer, Laboratory Instructor, Neurophysiology Discussion Facilitator
2015 – pres.	Principles Integrating Science and Medicine –Body Structures: Neuroscience Module, First year Medical School Course, Boston University School of Medicine, Boston MA Roles: Course Director (2015-2017), Lecturer (2015-pres), Laboratory Instructor, Neurophysiology Discussion Facilitator
2019 – pres.	Principles Integrating Science and Medicine –Body Structures: Cardiovascular Module, First year Medical School Course, Boston University School of Medicine, Boston MA Role: Laboratory Instructor
2019 – pres.	Principles Integrating Science and Medicine –Body Structures: Respiratory Module, First year Medical School Course, Boston University School of Medicine, Boston MA Role: Laboratory Instructor
09/04 - 06/05	Medical Histology (MS123)– First Year Medical School Course, Boston University School of Medicine, Boston, MA Roles: Lecturer, Laboratory instructor, Discussion Instructor
09/05-12/06	Sensation and Perception, School of Professional and Continuing Studies, Northeastern University, Boston, MA Role: Lecturer
01/05-05/15	Physiological Psychology, School of Professional and Continuing Studies, Northeastern University, Boston, MA Roles: Course Director, Lecturer
09/05-06/10	Medical Histology, Course in Masters of Arts in Medical Sciences program, Boston University School of Medicine, Boston, MA Roles: Lecturer, Laboratory Instructor

01/07- pres.	Neurobiology of Vision, Graduate Course in Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA Role: Lecturer
10/08-07/15	 Medical Neurosciences (MS133) – First Year Medical School Course, Boston University School of Medicine, Boston, MA Roles: Lecturer, Neuroanatomy Laboratory Instructor, Neurophysiology Discussion Facilitator 2012-2013 – Assistant Course Director 2013-2015 - Course Director
10/11 -10/11	Beginning Basic Neurosciences, Behavioral Neuroscience Graduate Course, Boston University School of Medicine, Boston, MA Role: Lecturer
01/13-05/13	Teaching in the Biomedical Sciences, Graduate Course in Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA Role: Lecturer, Discussion Facilitator
10/13-10/13	Medical Physiology, Graduate Course in Masters of Arts in Medical Science program, Boston University School of Medicine, Boston, MA Role: Discussion Facilitator
05/14 -05/15	Neurology Clerkship (MS316) - 3 rd year medical school course, Boston University School of Medicine, Boston, MA Role: Lecturer
Program Developmen	t
7/15-present	SPIN (Summer Program in Neuroscience) –co-creator & co-director (with J. Holsapple, MD) For undergraduate students interested in neurosurgery, neuroanatomy and neuroscience.

Major Mentoring and Advising Activities (all mentoring performed at Boston University School of Medicine)

09/08-06/15	At-large Advisor, Academy of Advisors - for 1st and 2nd year medical students (~4/yr), Boston University School of Medicine, Boston, MA
06/08-08/13	Graduate Student Advisor – Ph. D Program (all students), Department of Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA
06/08-08/11	Graduate Student Advisor – M.A. Program (all students), Department of Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA
09/10-06/16	Graduate Student Advisor – Advisor for 1 st and 2 nd year Master in Medical Science students (~24/yr), Boston University School of Medicine, Boston, MA
09/11-06/17	Mock Interviewer – for students that receive interviews at MD/DO schools - Masters in Medical Science Program, Boston University School of Medicine, Boston, MA
06/15-06/17	Faculty Sponsor / Advisor – Medical Student Service Project to bring Neuroscience Literacy to Geriatric Populations

Teaching Project Mentoring (date reflects project completion)

2014	Teaching Project (Vesalius Project) Mentor – Lucky Challyandra (M.A. Student in Anatomy and Neurobiology)– Development of Video Series for Teaching Visual Field Deficits for the Medical Neuroscience Course
2015	Teaching Project (Vesalius Project) Mentor – Julie Stamm (Ph.D. Student in Anatomy and Neurobiology) – Reorganization of Neuroscience Course Laboratory Manual.
2016	Teaching Project (Vesalius Project) Mentor – Lev Vaisman (M.D./Ph.D. student in Anatomy and Neurobiology) - Construction of neuroimaging course material for Medical Neuroscience Course.
2016	Teaching Project (Vesalius Project) Mentor – Afraa Alsamkari (M.S. Student in Anatomy and Neurobiology) –Vestibular System Function
2016	Teaching Project (Vesalius Project) Co-Mentor – Suji Reprakash (M.S. Student in Anatomy and Neurobiology) – Development of game-based review for cranial nerve and nuclei neuroanatomy
2016	Teaching Project (Vesalius Project) Mentor – George Farah (M.S. Student in Anatomy and Neurobiology) – Development of an on-line quiz-based neuroanatomy review.
2016	Teaching Project (Vesalius Project) -Mentor – Andres Velez Lopez (M.S. Student in Anatomy and Neurobiology) – Development of three-dimensional computer model of the human
2017	brainstem Teaching Project (Vesalius Project)- Co-Mentor – Francis Zamora (M.S. Student in Anatomy and Neurobiology) - Guiding exploration of the human brain – A dissection-based lesson for the Boston Museum of Science
Research Project N	Mentoring: Primary Mentor (date reflects project completion)
2005	Martin Oselkin – Masters Degree in Medical Sciences Thesis Title: Neuroprotective strategies in acute stroke: the use of transcranial magnetic stimulation. Current Position: Neuroradiology Fellow, University of Pennsylvania
2006	Linda Afifi – Masters Degree of Anatomy and Neurobiology Thesis Title: The impact of early bilateral ablation of areas 17 and 18 on motion perception. Current Position: Instructor, Tufts University School of Medicine
2007	Julie Williams – Masters Degree of Anatomy and Neurobiology Thesis Title: Neural correlates of repetitive transcranial magnetic stimulation-mediated recovery of lesion-induced visual neglect. Current Position: Clinical Project Manager, Visterra, Inc.
2007	 AmiLyn Taplin – Masters Degree in Medical Sciences Thesis Title: Review and analysis of invasive neuromodulatory techniques: deep brain stimulation and epidural stimulation. Current Position: Neurosurgery Resident, Albany Medical College
2007	Alicia Robbins – Masters Degree in Medical Sciences

	Thesis Title: Dynamics of the impact of unilateral parietal cortex deactivation on orienting behavior. Current Position: OB/GYN Physician, New York City
2007	Jeremy Macko - Masters Degree in Medical Sciences Thesis Title: Assessments and treatments of visuospatial neglect. Current Position: Resident, Flight Surgeon, US Air Force
2010	Christopher DeSimone – Masters Degree in Medical Sciences Thesis Title: Recovery from the effects of lesion using repeated sessions of transcranial direct current stimulation. Current Position: General Surgery Resident, Palisades Medical Center
2011	Gregory Fenton – Masters Degree in Medical Science Thesis Title: Reversal of lesion-induced visual neglect using active-state transcranial direct current stimulation Current Position: Neurology Resident, Rush University School of Medicine
2011	Ryan Sofka – Masters Degree in Medical Science Thesis Title: Electrophysiological and current source density analysis of the transcallosal pathway connecting the primary visual cortices. Current Position: Medical Student, University of Vermont
2012	Marie-Helene Gagnon – Masters Degree in Medical Sciences Thesis Title: Graph theoretical analysis of visual system functional connectivity in normal and lesioned brains. Current Position: Medical Student, Emory University
2012	O'Hara Haley – Masters Degree in Anatomy and Neurobiology Thesis Title: Characterization of glucose uptake dynamics in human U87 glioblastoma cells following co-treatment with paclitaxel and dexamethasone. (with Dr. Anne van de Ven-Moloney) Current Position: Medical Student, Commonwealth Medical College
2012	Simon Maisel – Masters Degree in Medical Sciences Thesis Title: Repetitive anodal tDCS of perilesional cortex impairs recovery of function after parietal damage. Current Position: Research Assistant, Children's Hospital, Boston MA
2012	Michael Roche – Masters Degree in Medical Sciences – selected for honors Thesis Title: Electrophysiology of cortical spreading depression in the rat neocortex. Current Position: Research Assistant, University of Colorado
2012	 R. Michael Cournoyer – Masters Degree in Anatomy and Neurobiology Thesis Title: Functional activity of brain structures underlying visuospatial orienting in normal and lesioned brains. Current Position: Medical Student, Indiana University School of Medicine
2012	Jeremiah Paskus – Masters Degree in Anatomy and Neurobiology Thesis Title: Safety aspects of chronic repetitive transcranial magnetic stimulation: effect on neuronal and glial structure. Current Position: Doctoral Student in Neuroscience, Georgetown University
2014	Dan Olix – Masters Degree in Medical Science

	Thesis Title: The impact of primary motor cortex, spinal cord, and sciatic nerve cooling on spinal reflex activity in the rat.
	Current position: Chief scribe, HVMA –Wellesley
2016	Patrick McGillen – Masters Degree in Medical Science
	Thesis Title: Determining the cellular basis of transcranial brain stimulation in mitigating the effect of ischemic brain injury
	Current position: Medical Student, Boston University School of Medicine
2016	Ian Benjamin– Masters Degree in Medical Science
	Thesis Title: The impact of ketogenic diet on cerebral excitability.
	Current position: Medical Scribe, MCAT instructor
2016	Alina Bazarian – Masters Degree in Medical Science
	Thesis Title: Translaminar pattern of c-fos activation in rat motor cortex after unilateral cortical spreading depression
	Current position: Medical Scribe
2016	Andrew Chang – Masters Degree in Medical Science
	Thesis Title: Electrophysiological analysis of transcranial direct current stimulation and
	its effect on cortical spreading depression
	Current position: Research Assistant, Boston University School of Medicine

Research mentor - Secondary Mentor / Second Reader

2005-2017	Second reader for 79 Masters of Science or Master of Arts Degree in Medical Science theses, Boston University School of Medicine, Boston, MA
2007-2017	Second reader for 8 Masters of Arts or Master of Science Degree in Anatomy and Neurobiology theses, Boston University School of Medicine, Boston, MA
2014-2017	Second reader for Master of Science in Bioimaging Degree thesis
2015	Research mentor for 2 undergraduate students in a summer neuroscience program
Member of Doctoral	Thesis Committees (dates reflect graduation year)

2011	Linda Afifi (2 nd reader)
2011	
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2012	Seth Elkin-Frankston (2 nd reader)
2012	Joseph Amatrudo
2013	Jon Rueckemann
2013	Peter Fried
2014	Ana Amaral
2014	Claire Timbie
2015	Shaun Patel
2016	Nadine Heyworth
2016	Charlie Yang
2017	Mary Orczykowski
2017	Teresa Guillamon
2017	Ruiyi Ren
2017	Roman Loonis
pres	Wayne Chang

pres	JoColl Burgess
pres	Daniel Kirsch
pres	Katie Babcock
Mentorship Grants	
07/11 -09/11	Interactions of Parietal Cortex (Grant through Albany Medical College for summer medical student, Kyle Wassermann; Mentor: Rushmore; Funds for student stipend)
09/12-05/13	Effect of Deactivating Feedback and Callosal Parietal Projections on Neural Activity in Primary Visual Cortex (UROP (Undergraduate Research Opportunity Program), Boston University; Mentor: Rushmore, Student PI: Jaime Nagy)
Other Professiona	l Activities:
Editorial Boards	
04/12-05/13	ISRN Neuroscience

04/12-05/13	ISRN Neuroscience		
02/16-present	Review Editor, Frontiers in Neuroanatomy		
	Journal and Book Reviewer (ad hoc)		
Cerebral Cortex	K		
Journal of Neur	roscience Methods		
Journal of Com	parative Neurology		
Brain Research			
European Jourr	al of Neuroscience		
Experimental E	Brain Research		
PLoS One			
McGraw-Hill P	ublishing		
National Board	of Medical Examiners		
Restorative New	urology and Neuroscience		
Neuromodulati	on		
Brain Stimulati	on		
Thieme Publish	lers		
Frontiers in Ne	uroanatomy		
Frontiers in Ne	uroscience		
Scientific Repo	rts		
Sinauer Associ	ates - Textbooks (Blumenfeld's Neuroanatomy Through Clinical Cases)		
Neuroscience			
Journal of Urol	ogy		

Federal Government

Stroke Program Review Panel (SPRG), National Institutes of Health

Other

04/08-pres.	Scientific Board, Highland Instruments, Inc., Cambridge, MA
08/11	External Evaluator – Department of Physiology, University of Bern, Switzerland
10/12	Grant Reviewer – Medical Research Council, UK
09/14	Review Committee, International Association of Medical School Educators
3/15-3/17	Science Fair Judge, Bromfield High School, Harvard, MA
3/15-3/17	Neuroanatomy Presentation to High School STEM students, Boston University School of
	Medicine, Boston, MA
10/18	Grant Reviewer – FWF (Austrian Science Fund)
11/18	Grant Reviewer – Boston University CTSI Program
2020	Grant Reviewer – Dutch Research Council

2020

Grant Reviewer - Royal Society, New Zealand

Research Support:

01/19-pres	High resolution, comprehensive atlas of the human brain morphology (R01MH112748 PI: Bouix, Kubicki, Makris) Role: Co-I
09/14-08/17	Using transcranial stimulation to prevent cortical spreading depression (R21NS084022 PI: Rushmore; \$275,000) Role: PI
09/14-05/15	Neurobiology of Visuospatial Neglect (CTSI Pilot Funding Award PI: Rushmore, \$20,000) Role: PI
09/10-08/11	Recovering from Chronic Brain Damage with TDCS (R21NS042317-02; PI: Rushmore; \$125,000 Role: PI
01/09-05/10	Defense Advanced Research Project Agency (FY09-008; PI: Wagner; \$99,000) Role: Key Personnel / Animal work PI
09/09-08/10	Recovering from Chronic Brain Damage with TDCS (R21NS042317-01; PI: Valero-Cabre; \$150,000 Role: Investigator
05/08-04/11	Electromechanical Noninvasive Brain Stimulation: Safety and Efficacy (R43NS062530; PI: Wagner; \$417,000) Role: Key Personnel
08/08-07/09	Neural correlates of the manipulation of visuo-spatial processing by Transcranial Direct Current Stimulation: setting the stage for future clinical applications (Spivak Grant; PI: Valero-Cabre); \$40,000) Role: Investigator
01/07-10/07	Malnutrition and Mental Health: A Rat Model (R01MH74811; PI Galler; \$1,909,380) Role: Consultant
06/04-05/08	Rehabilitation of Neural Spatial neglect (R01NS47754; PI: Payne, Moss; \$2.500,000) Role: Investigator
04/04-03/06	Cognition after Lesion of Immature Cerebral Cortex (R01NS33975; PI: Payne, Sandell; \$1,200,000) Role: Investigator
06/04-05/05	Cortical Circuits Underlying Cognitive Function (R01NS32137; PI: Payne, Sandell; \$600,000) Role: Investigator
02/02-01/04	Parietal and Temporal Circuits in Cognition (F31NS44624 – Individual Pre-doctoral Award; PI: Rushmore; \$51,700) Role: PI

Bibliography:

Original, Peer Reviewed Articles

- 1. Bronzino JD, Kehoe P, Austin-LaFrance RJ, **Rushmore RJ**, Kurdian J. (1996) Neonatal isolation alters LTP in freely moving juvenile rats: sex differences. *Brain Research Bulletin.* **41**:175-83. PMID: 13823592
- Rushmore J, Luebke J, Galler JR. (1998) Electrophysiological properties of rat hippocampal principal cells are unaltered by prenatal protein malnutrition. *Hippocampus*. 8:380-9. PMID: 9744423
- Lomber SG, Payne BR, Hilgetag CC, Rushmore RJ. (2002) Restoration of visual orienting into a cortically blind hemifield by reversible deactivation of posterior parietal cortex or the superior colliculus. *Experimental Brain Research.* 142:463-74. PMID: 11845242
- 4. Hilgetag CC, Lomber SG, **Rushmore RJ**, Payne BR. (2002) Topographic restoration of visual spatial attention in the cortically blind cat. *Neurocomputing* **44-46**:831-35.
- 5. Payne BR, Lomber SG, **Rushmore RJ**, Pascual-Leone A. (2003) Cancellation of visuoparietal lesion-induced spatial neglect. *Experimental Brain Research* 150:395-8. PMID: 12698319
- 6. **Rushmore, RJ,** Payne BR. (2003) Bilateral impact of unilateral visual cortex lesions on the superior colliculus. *Experimental Brain Research.* **151:**542-7. PMID:12802555
- 7. Payne BR, **Rushmore RJ.** (2004) Functional circuitry underlying natural and interventional cancellation of visual neglect. *Experimental Brain Research* **154**:127-53. PMID: 14625667
- 8. **Rushmore RJ**, Payne BR. (2004) Neuroplasticity after unilateral visual cortex damage in the newborn cat. *Behavioural Brain Research.* **153:** 557-565. PMID:15265654
- Valero-Cabre A, Rushmore RJ, Lomber SG, Payne BR, Pascual-Leone A. (2005) Impact of repetitive transcranial magnetic stimulation fo the parietal cortex on metabolic brain activity: a 14C-2DG tracing study in the cat. *Experimental Brain Research* 163:1-12. PMID:15688174
- Rushmore RJ, Payne BR, Lomber SG. (2005) Functional impact of primary visual cortex deactivation on subcortical target structures in the thalamus and midbrain. *Journal of Comparative Neurology* 488:414-426. PMID:1597368221.
- 11. **Rushmore RJ,** Valero-Cabre A, Lomber SG, Hilgetag CC and Payne BR. (2006) Functional circuitry underlying neglect and its reversal. *Brain* 129:1803-1821. PMID:16731540
- 12. Valero-Cabre A, **Rushmore RJ**, Payne B. (2006) Low frequency repetitive transcranial magnetic stimulation on the posterior parietal cortex induces transient contralateral visuo-spatial neglect-like syndrome. *Experimental Brain Research* **172:**14-21. PMID:16418849
- Valero-Cabre A, Rushmore RJ, Payne BR. (2006) Non Invasive induction and cancellation of visuo-spatial deficits by repetitive Transcranial Magnetic Stimulation (rTMS): Lessons on "surgery-less" manipulation of complex visuo-spatial brain networks. *Rev Brasil Neurol* 2006: 73-83.
- Rushmore RJ, Rigolo LR, Peer AK, Afifi L, Valero-Cabre A and Payne BR (2008) Age-depending sparing of visual acuity following bilateral lesions of primary visual cortex. *Behavioral Neuroscience* 122:1274-83. PMID:19045947

- 15. Valero-Cabre A, Pascual-Leone A and **RJ Rushmore** (2008) Cumulative sessions of repetitive transcranial magnetic stimulation (rTMS) builds up facilitation to further TMS-mediated behavioral disruptions. *European Journal of Neuroscience* 27: 765-74. PMID:18279329
- 16. Schweid L, Rushmore RJ and A Valero-Cabre (2008) Cathodal transcranial direct current stimulation (tDCS) on posterior parietal cortex disrupts visuo-spatial processing in the contralateral visual field. *Experimental Brain Research* 27:765-774. PMID:18196224
- Wagner T, Rushmore J, Eden U, Valero-Cabre A. (2009) Biophysical foundations underlying TMS: Setting the stage for an effective use of neurostimulation in the cognitive neurosciences. *Cortex* (Oct 22) 45(9):1025-1034. PMID: 19027896
- MacNeil MA, Purrier S, Rushmore RJ. (2009) The composition of the inner nuclear layer of the cat retina. Visual Neuroscience. 26(4):365-74. PMID:1968194
- 19. Rushmore RJ, Payne BR, Valero-Cabre A (2010) Recovery of function following unilateral damage to visuoparietal cortex. *Experimental Brain Research*. **203**(4):693-700. PMID: 20461362
- Elkin-Frankston S, Fried P, Pascual-Leone A, Rushmore RJ, Valero-Cabre A (2010) A novel approach for documenting phosphenes induced by transcranial magnetic stimulation. *Journal of Visualized Experiments*. 38, pii 1762. PMID:20360672
- Wolfe, Rushmore RJ, Valero-Cabre A (2010) Coping with spatial attention in real space: a low-cost portable testing system for the investigation of visuo-spatial processing in the human brain. *Journal of Neuroscience Methods.* 187:190-8. PMID: 20079374
- 22. Elkin-Frankston S, Fried P, **Rushmore RJ**, Valero-Cabre A (2011) From Qualia to Quantia: A System to Document and Quantify Phosphene Percepts Elicited by Non-Invasive Neurostimulation of the Human Occipital Cortex. *Journal of Neuroscience Methods* **198**:149-57. PMID: 21419796
- Fried P, Elkin-Frankston S, Rushmore RJ, Hilgetag CC, Valero-Cabre A. (2011) Characterization of visual percepts elicited by noninvasive stimulation of the human posterior parietal cortex. *PLoS ONE* 6(11):e27204, doi:10.1371/journal.pone.0027204. PMCID: 22087266
- 24. Afifi LM, Rushmore RJ, Valero-Cabre A. (2013) Benefits of multiple sessions of repetitive transcranial magnetic stimulation for an effective rehabilitation of visuo-spatial function. *European Journal of Neuroscience* 37(3): 441-54.* PMID: 23167832 Selected for the virtual issue, "Noninvasive Brain stimulation"
- 25. Rushmore RJ, Desimone C, Valero-Cabre A (2013) Multiple sessions of transcranial direct current stimulation to the intact hemisphere restores visual function after unilateral brain damage. *European Journal of Neuroscience* 38(12): 3799-807 PMID: 24118563 * Selected for the virtual issue, "Noninvasive Brain stimulation"
- 26. Wagner T, Eden U, Rushmore J, Russo CJ, Dipetro L, Fregni F, Simon S, Rotman S, Pitskel NB, Ramos-Estebanez C, Pascual-Leone A, Grodzinsky AJ, Zahn M, Valero-Cabre A. (2014) Impact of brain tissue filtering on neurostimulation fields: a modeling study. *Neuroimage* 85(3): 1048-57. PMID: 23850466
- 27. Fried P, Rushmore RJ, Moss MB, Valero-Cabre A, Pascual-Leone A (2014) Causal Evidence Supporting Functional Dissociation of Verbal and Spatial Working Memory in the Human Dorsolateral Prefrontal Cortex. *European Journal of Neuroscience 39*(11):1973-81. PMID: 24713032
- 28. McGaughy JG, Amaral A, Rushmore RJ, Mokler DM, Morgane PM, Rosene DL, Galler JR (2014) Prenatal Malnutrition Leads to Deficits in Attentional Set Shifting and Decreases Metabolic Activity in Prefrontal Subregions that Control Executive Function. *Developmental Neuroscience* 36:532-41. PMID: 25342495

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- 1. Payne BR, **Rushmore RJ**. (2002) The special relationship between beta retinal ganglion cells and primary visual cortex. In: Cat Primary Visual Cortex, (BR Payne, A Peters, editors) pp 561-608, Academic Press, San Diego.
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Educational Materials

1. Farah G & **Rushmore RJ**<u>www.brainanatomy.info</u> (2017) Website for medical neuroanatomy, with quiz resources.

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- 1. Makris N, **Rushmore RJ**, Wilson-Braun P, Papadimitriou G, Ng I, Rathi Y, Zhang F, O'Donnell L, Kubicki M, Yeterian W, Lemaire JJ, Calabrese E, Johnson GA, Kikinis R. (2019) 3D Exploration of the Brainstem in 50-micron Resolution MRI. BioRXIV
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