

Rahul Jandial, M.D., Ph.D.

Assitant Professor, Division of Neurosurgery
City of Hope Cancer Center
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EDUCATION

B.A., Molecular and Cell Biology	1995
University of California at Berkeley Berkeley, California	
M.D., Doctor of Medicine	2000
University of Southern California Los Angeles, California	
Ph.D., Doctor of Philosophy	2008
University of California at San Diego San Diego, California Dissertation: Stem cell origins of brain tumors.	

POST-DOCTORAL TRAINING

Resident Neurosurgeon	2000 – 2006
Division of Neurological Surgery University of California at San Diego Medical Center San Diego, California	
Chief Resident Neurosurgeon	2007 – 2008
Division of Neurological Surgery University of California at San Diego Medical Center San Diego, California	

EMPLOYMENT

Assistant Professor	2009
Division of Neurosurgery City of Hope Cancer Center, California	
Adjunct Assistant Professor	2009
Department of Biology, USC	
Clinical Instructor/Fellow	2008
UCSF Department of Neurological Surgery	
Adjunct Assistant Professor	2008
Scripps Research Institute, La Jolla, California	
Instructor, Department of Biology, UCSD	2006 – 2008

HONORS & AWARDS

Excellence Award	2010	
City of Hope		
Scholar, Oncology Development Award	2009	
National Institutes of Health (NIH)		
Research Award		
STOPCancer Foundation		2009
Distinguished Professor Teaching Award		
University of California		2008
Brain Tumor Award		
American Brain Tumor Foundation		2008
Research Award		
Neurosurgery Research Education Foundation		2008
Community Service Award		
American Medical Association		2007
Penfield Research Award		
Congress of Neurosurgeons		2007
America's Top Surgeons		
Excellence in Medicine		2007
American Medical Association		2006
America's Outstanding Doctors		
Public Service Award		2005
American Association of Neurological Surgeons		2004
Excellence in Teaching		
UCSD - School of Medicine		2003
Dean's Scholar		
University of Southern California- School of Medicine		2000
B.A. with Honors		
University of California, Berkeley		1995
Dean's List		
University of California, Berkeley		1994

OTHER ACTIVITIES

Panelist – Science Times Neurosurgery	2007 – Present
KTLA – Medical Correspondent	2008 – Present
Director , Neurosurgery Neuroscience Consortium	2007 – 2008
Health Contributor – Orange County Register	2007 – 2008
Editor- In-Training Liaison – <i>J of Neurosurgery</i>	2007 – 2008
Member – Resident Physician Council, UCSD	2006 – 2008
Delegate – California Medical Association	2006 – Present
Director – International Neurosurgical Children's Association	2003 – Present

PUBLICATIONS

PAPERS

1. Persson Anders I, **Jandial R**, Shchors K, Masic S, Ho A, Vandenberg S, Nicolaides T, Nguyen K, Yakovenko S, Alvarez Buylla A, Evan GI, Snyder EY, Weiss WA. Retrovirus-mediated lineage mapping of brain tumors suggests gliomas to be of polyclonal stem cell origin influenced by a pharmacologically-regulatable neurogenic-to-gliogenic switch. *Cell*. Submitted
2. **Jandial R**, Snyder EY. A safer stem cell: on guard against cancer. *Nat Med*. 2009 Sep;15(9):999-1001.
3. **Jandial R**, Persson AL, Weiss WA, et al. Retrovirus-mediated lineage mapping of brain tumors suggests gliomas to be of polyclonal stem cell origin influenced by a pharmacologically-regulatable neurogenic-to-gliogenic switch -submitted *Cell*
4. **Jandial R**. Imaging cellular therapeutics: a novel approach. *Neurosurgery*. 2009 May;64(5):N13-4.
5. Ciacci J, Ho A, Ames CP, **Jandial R**. Stem cell horizons in intervertebral disc degeneration. *Stem Cells and Cloning* 2008;1 31–39.
6. Levy ML, Ho AL, Hughes S, Menon J, **Jandial R**. Stem cells and the origin of gliomas: A historical reappraisal with molecular advancements. *Stem Cells and Cloning* 2008;1 41–47
7. **Jandial R**, U H, Levy ML, Snyder EY. Brain tumor stem cells and the tumor microenvironment. *Neurosurg Focus*. 2008;24(3-4):E27.
8. **Jandial R**, Aryan HE, Park J, Taylor WT, Snyder EY. Stem cell-mediated regeneration of the intervertebral disc: cellular and molecular challenges. *Neurosurg Focus*. 2008;24(3-4):E21.
9. **Jandial R**, Singec I, Ames CP, Snyder EY. Genetic modification of neural stem cells. *Mol Ther*. 2008 Mar;16(3):450-7. *Epub* 2008 Feb 5.
10. Dhawan N, Puangco J, **Jandial R**. In search of a treatment for Alzheimer's disease and potential immunosuppressive therapeutic interventions. *Neuro Endocrinol Lett*. 2008 Aug;29(4):410-20..
11. Singec I, **Jandial R**, Crain A, Nikkhah G, Snyder EY. The leading edge of stem cell therapeutics. *Annu Rev Med*. 2007;58:313-28. Review.
12. **Jandial R**, Reichwage B, Levy M, Duenas V, Sturdivan L. Ballistics for the neurosurgeon. *Neurosurgery*. 2008 Feb;62(2):472-80; discussion 480. Review. *Neurosurgery*. 2008 Feb;62(2):472-80; discussion 480. Review.
13. Hayden MG, **Jandial R**, Duenas HA, Mahajan R, Levy M. Pediatric concussions in sports; a simple and rapid assessment tool for concussive injury in children and adults. *Childs Nerv Syst*. 2007 Apr;23(4):431-5. *Epub* 2007 Jan 12.
14. Levy ML, Nguyen A, Aryan H, **Jandial R**, Meltzer HS, Apuzzo ML. Robotic virtual endoscopy: development of a multidirectional rigid endoscope. *Neurosurgery*. 2006 Jul;59(1 Suppl 1):ONS134-41.
15. **Jandial R**, Greenberg MS, Aryan HE, Taylor WR, Sutherland-Smith, M; Kearns, K; Morris, K. Lumbar Discectomy In A Human-Habituated Western Lowland Gorilla. *The Internet Journal of Neurosurgery*. 2005. Volume 2 Number 1.
16. Ozgur BM, **Jandial R**, Levy ML. Complications of Interhemispheric Transcallosal Approach in Children. *Clin Neurol Neurosurg*. 2005.
17. Aryan HE, **Jandial R**, Farin A, Chen JC, Granville R, Levy ML. Intradural cranial congenital dermal sinuses: diagnosis and management. *Childs Nerv Syst*. 2006 Mar;22(3):243-7. *Epub* 2005 Sep 29.
18. Aryan HE, Ghosheh FR, **Jandial R**, et al. Retinal Hemorrhage and Pediatric Brain Injury: History, Etiology, and Review of the Literature. *Journal of Clinical Neuroscience* 12(6): 624-631, August 2005.
19. Aryan HE, Ozgur BM, **Jandial R**, Levy ML. Subfrontal Transbasal Approach for Resection of Craniopharyngioma. *Neurosurgical Focus* 18(6a): E10, June 2005.
20. Aryan HE, **Jandial R**, Ozgur BM, et al. Surgical Correction of Metopic Synostosis. *Child's Nervous System* 21(5): 392-398, May 2005.
21. Aryan HE, Meltzer HS, Park MS, **Jandial R**, Levy ML. Antibiotic-Impregnated Silicone Catheters for Shunting of Cerebrospinal Fluid (CSF) in Children. *Child's Nervous System* 21(1): 56-61, January 2005.
22. **Jandial R**, Hughes SA, Aryan HE, Marshall LF, Levy ML. The Science of Shrinking Human Heads: Tribal Warfare and Revenge Among the South American Jivaro-Shuar. *Neurosurgery* 55(5): 1215-1221, November 2004.
23. **Jandial R**, Aryan HE, Hughes SA, Levy ML. Effect of Vagus Nerve Stimulator (VNS) Magnet on Programmable Shunt Settings. *Neurosurgery* 55(3): 627-630, September 2004.
24. Aryan HE, Meltzer HS, Gerras GG, **Jandial R**, Levy ML. Leptomeningeal Cyst Development After Endoscopic Craniosynostosis Repair. *Neurosurgery* 55(1): 235-238, July 2004.
25. **Jandial R**, Aryan HE, Bennett RL, Masri LS, Lavine SD, Levy ML. Gunshot Wounds to the Head: Gang and Non-Gang Related Injuries and Outcomes. *Brain Injury*. 2004
26. Aryan HE, Yanni DS, Nakaji P, **Jandial R**, Marshall LF, Taylor WR. Syringocephaly. *Journal of Clinical Neuroscience* 11(4): 421-423, May 2004.

27. Park MS, Aryan HE, Ozgur BM, **Jandial R**, Taylor WT. Stabilization of Anterior Cervical Spine with Bioabsorbable Polymer in One- and Two-Level Fusions. *Neurosurgery* 54(3): 631-635, March 2004.

BOOKS

1. **Jandial R**, Boriani, Ames C. *Advanced Operative Techniques-Spine and Spinal Cord Tumors*. QMP Inc; In Press.
2. **Jandial R**. *Essential Techniques in Operative Neurosurgery*. Elsevier, 2010.
3. **Jandial R**. *Best Evidence for spinal surgery*. Elsevier, 2011.
4. **Jandial R** *Frontiers in Brain Repair*. Springer/Landes Bioscience, Georgetown, Texas; 2009.
5. **Jandial R** *Frontiers in Spine and Spinal Cord Repair*. Springer/Landes Bioscience, Georgetown, Texas; 2010.
6. **Jandial, R**. *Code Blue: Emergent Clinical Scenarios*. Quality Medical Publishing, Inc., St. Louis, Missouri, 2009.
7. Toy E, **Jandial R**, Snyder EY. *Case Files: Neuroscience*. Lange Medical Books/ McGraw Hill, New York, New York: April 2008.
8. **Jandial R**, *100 Questions and Answers About Spinal Disorders*. Jones and Bartlett Publishing, Boston, Massachusetts: Winter 2007.
9. **Jandial R**, Hughes SA. *100 Questions and Answers About Head Injury*. Jones and Bartlett Publishing, Boston Massachusetts: Spring 2008
10. **Jandial, R**. (Associate Editor) *TRAUMA: Resuscitation, Anesthesia, & Critical Care*. Marcel Dekker, Inc., New York, New York. 2007.
11. **Jandial R**, Aryan HE, Nakaji P. *Neurosurgical Essentials*. Quality Medical Publishing, Inc., St. Louis, Missouri, 2004.

CHAPTERS

1. **Jandial R**, Snyder ES. Neural repair and stem cells. *New Encyclopedia of Neuroscience*. Elsevier. Oxford, UK2009
2. Jandial R, Persson A, Ho A, Levy ML, Snyder EY. Stem Cells and CNS Repair. *Developmental Neurobiology*. Elsevier, Aug 2009.
3. Chan J, Dhwan NK, Mahajan R, Waters D and **Jandial R**. In Vivo Imaging of Cellular Transplants. *Frontiers in brain repair*. October 2009.
4. Persson A, Tran KD, **Jandial R**. Stem Cell Transplantation Methods. *Frontiers in brain repair*. October 2009.
5. Lee JP, Clark D, Jeyakumar M, Gonzalez R, McKercher S, Park KI, **Jandial R**, Seyfried TN, Platt FM, Snyder EY. Neural Stem Cell Therapy in Lysosomal Storage Disease. *Lysosomal Storage Diseases*. Springer Publishing. New York, New York. In Press.
6. Stene JK, **Jandial R**, Churchland P. Brain Death and Organ Donation. *TRAUMA: Resuscitation, Anesthesia, & Critical Care*. Marcel Dekker, Inc., New York, New York. In Press.
7. **Jandial R**, Aryan HE, Hughes SA, U HS. Management of Intracerebral Vascular Catastrophes. *TRAUMA: Resuscitation, Anesthesia, & Critical Care*. Marcel Dekker, Inc., New York, New York. In Press.
8. Hamid RK, Newfield P, Levy ML, **Jandial R**, Davis PJ. Pediatric Neurologic Trauma and Other Emergencies. *TRAUMA: Resuscitation, Anesthesia, & Critical Care*. Marcel Dekker, Inc., New York, New York. In Press.

PROFESSIONAL MEMBERSHIPS

California Medical Association
American Medical Association
American Association of Neurological Surgeons
Congress of Neurological Surgeons
San Diego County Medical Society
Society for Neuroscience
International Neurosurgical Children's Association
Society for Neuro-Oncology
American Association of Cancer Research
American Cancer Society

CERTIFICATIONS

United States Medical Licensing Exam I
completed May, 1998
United States Medical Licensing Exam II
completed Jan, 2000
United States Medical Licensing Exam III
completed Mar, 2001
California State Licensure # A77673
Federal DEA # BJ7897753

LANGUAGES

English, Spanish

* References and list of abstracts / lectures available upon request.