

## CURRICULUM VITAE

**Date CV Prepared:** August 20, 2008

### **Personal Data:**

Name: Salomão Segal  
Birth date: February 2<sup>nd</sup>, 1962  
Birthplace: Porto Alegre, Brazil  
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### **Current Position:**

Paul Janssen Fellow in Translational Neuroscience, Department of Psychiatry, College of Physicians and Surgeons, Columbia University, New York, NY

Investigator, Division of Brain Stimulation and Therapeutic Modulation, New York State Psychiatric Institute, New York, NY

### **Education:**

1985	MD	Universidade Federal do Rio Grande do Sul	Medicine
1985		Internship, Hospital de Clinicas de Porto Alegre e Instituto de Neurocirurgia de Porto Alegre, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil	
1986		Traineeship in Neurosurgery, Hospital Universitario da Pontificia Universidade Catolica do Rio Grande do Sul, Porto Alegre, Brazil	
1987		Traineeship in Neurology, Hospital Universitario da Pontificia Universidade Catolica do Rio Grande do Sul, Porto Alegre, Brazil	
1988-1993		Residency in Neurosurgery, Department of Neurosurgery (Head: Prof. Vinko V Dolenc) - University Clinical Center - Edvard Kardelj University in Ljubljana - Feb. 1989 - Dec. 1990 - Ljubljana - Slovenia Department of Neurosurgery - Hospital Na Homolce - Feb. 1991 - Mar. 1993 - Prague - Czech Republic. Board Eligible.	
1993-1994		Traineeship in Microsurgical Anatomy, Division of Neurosurgery - Department of Surgery - Saint Louis University Health Sciences Center, Practical Anatomy Workshop of Saint Luis University, Saint Louis, MO, USA.	
2005- 2008		Post-doctoral Research Fellowship in Geriatric Psychiatric Research, Columbia University in the City of New York, Department of Psychiatry, New York, NY, USA	

### **Academic Appointments:**

1994-1997 Director of (CME) Workshops, Practical Anatomy Workshop of Saint Louis University, Saint Louis, MO, USA. Directed, organized and taught at continuing medical education activities for health care professionals.

- 1997-1998 Director of (CME) Neurosurgical Workshops, Practical Anatomy Workshop of Saint Louis University, Saint Louis, MO, USA. Directed, organized and taught at continuing medical education activities in neurosurgery.
- 1999-2001 Research Assistant Professor, Department of Neurosurgery, Mount Sinai School of Medicine, New York, NY, USA. I was commissioned with the implementation of a teaching laboratory and a curriculum in microsurgery and microanatomy applied to neurosurgery for neurosurgical residents, fellows, visitors and faculty. Taught a neuroscience course for second year medical students and post-graduate courses for residents in neurosurgery, ENT and ophthalmology.
- 2001 Adjunct Assistant Professor, Department of Cell Biology and Anatomical Sciences, The Sophie Davis School of Medicine, City University of New York, NY, USA. Taught a neuroanatomy course to second year medical students.
- 2001-2005 Assistant Professor (Research), Departments of Psychiatry and Neurology, New York University School of Medicine, New York, NY, USA. Neuroanatomist, through a NIH-funded Neuroimaging Core mechanism (PI: Mony J. de Leon, Ed.D.), trained, supervised and consulted with local and foreign visiting imaging scientists in the fields of neuroanatomy and anatomical segmentation, Neuroimaging Research Laboratory, Center for Brain Health, Department of Psychiatry, New York University School of Medicine, New York, NY

**Other appointments:**

- 2003 – 2005 Guest, Department of Chemistry, PET facility, Brookhaven National Laboratory, US Department of Energy
- 2008 - Guest Scientist, Department of Medicine, Brookhaven National Laboratory, US Department of Energy (Sponsor: Fritz Henn, M.D., Ph.D.)

**Honors and Awards:**

- 2008 The Paul Janssen Fellowship in Translational Neuroscience at Columbia University (July 2008 – July 2009)
- 2006
1. Frontier Fund Award, Department of Psychiatry, Columbia University in the City of New York
  2. 2006 NARSAD Young Investigator Award, National Alliance for Research on Schizophrenia and Depression (2006 – 2007)

### **Fellowship and Grant Support:**

- 2003-2005 NIH-NIA Research Supplement for Underrepresented Minorities. Parent Grant: 2R01AG013616 -13A1. Clinical Correlates of Longitudinal PET Changes in AD. PI: Mony J de Leon.
- 2005- NIMH funded (T-32, Training Grant, PI: Steven Roose, M.D.) Research Fellowship in Geriatric Psychiatry Research, Columbia University in the City of New York, Department of Psychiatry, New York, NY.

### **Professional Societies:**

- 2006 - New York Academy of Sciences
- 2007 Society for Neuroscience

### **Invited Seminars**

- 2008 Brodmann Area 25 – Directed Deep Brain Stimulation in Treatment Resistant Depression: Preclinical and Translational Studies, delivered at the 210<sup>th</sup> Meeting of the Psychiatric Neurosurgery Committee, Massachusetts General Hospital and Harvard Medical School. June 9<sup>th</sup>, Boston, MA, USA.
- Brodmann Area 25 – Directed Deep Brain Stimulation in Major Depression Disorder: Unveiling the Mechanisms of Action Through Preclinical and Translational Studies, delivered at the Brookhaven National Laboratory, June 11<sup>th</sup>, Upton, NY, U.S.A.
- Mechanisms of Action of Deep Brain Stimulation: Translational Studies, delivered at the Wisconsin National Primate Research Center, November 7<sup>th</sup>, Madison, WI, U.S.A.

### **Teaching Experience and Responsibilities:**

- 1993-1995 Instructor, Fourth Year Medical Student Research Elective in Basic Microsurgery (4 weeks), Saint Louis University School of Medicine, Department of Anatomy and Neurobiology
- 1996 Member of the dissertation committee for the doctoral dissertation of Karen Engdorf, M.P.H. School of Education at Saint Louis University, February 1996, Saint Louis, MO, USA.
- 1993-1997 Faculty in CME hands-on activities held at the Practical Anatomy and Surgical Technique Workshop of Saint Louis and sponsored by Saint Louis University School of Medicine, Department of Anatomy and Neurobiology:
1. Lecture and 3-D Video demonstration “Anatomy of the Ventricular System”. CME course: Practical Brain Anatomy for Nurses, Physician Assistants and Surgical Technologists. November 19, 1994. Saint Louis, MO.
  2. Lecture and 3-D Video demonstration “Anatomy of the Ventricular System”. CME course: Neurosurgical Endoscopy February 10, 1995. Saint Louis, MO.

3. Lecture and 3-D Video demonstration "Anatomy of the Ventricular System". CME course: Neurosurgical Endoscopy, April 7, 1995. Saint Louis, MO.
4. Lecture and 3-D Video demonstration "Anatomy of the Ventricular System". CME course: Neurosurgical Endoscopy, June 23, 1995. Saint Louis, MO.
5. Lecture and 3-D Video demonstration "Anatomy of the Ventricular System". CME course: Practical Brain Anatomy for Nurses, Physician Assistants and Other Health Care Professionals, September 30, 1995. Saint Louis, MO.
6. Lecture and 3-D Video demonstration "Anatomy of the Ventricular System". CME course: Neurosurgical Endoscopy, October 27, 1995. Saint Louis, MO.
7. Lecture and 3-D Video demonstration "Anatomy of the Ventricular System". CME course: Advanced Human Neuroanatomy, February 17, 1996. Saint Louis, MO.
8. Lecture and 3-D Video demonstration "Anatomy of the Ventricular System". CME course: Neurosurgical Endoscopy, March 22, 1996. Saint Louis, MO.
9. Lecture and 3-D video live demonstration "Anatomy of the Ventricular System". CME course: Neurosurgical Endoscopy, June 14, 1996. Saint Louis, MO.
10. Lecture and 3-D video live demonstration "Anatomy of the Ventricular System". CME course: Neuroanatomy for Neurologists and Psychiatrists, October 4, 1996. Saint Louis, MO.
11. Lecture and 3-D video live demonstration "Endoscopic Ventricular Anatomy" CME course: Neurosurgical Endoscopy, November 15, 1996. Saint Louis, MO.
12. Lecture and 3-D video live demonstration "Anatomy of the Ventricular System". CME course: Neurosurgical Endoscopy, May 23, 1997. Saint Louis, MO.
13. Lecture and 3-D video live demonstration "Anatomy of the Ventricular System". CME course: Neurosurgical Endoscopy, November 14, 1997. Saint Louis, MO.
14. Lecture "Surgical Anatomy of the Wrist". CME course: Endoscopic Release of the Carpal Tunnel, September 20<sup>h</sup>, 1997. Saint Louis, MO.
- 1993-1999 Faculty in CME activities delivered in neurosurgical meetings, invited presentations in Symposia and Grand Rounds related with the field of neurosurgery, microsurgical anatomy and medical education.
15. Lecture and 3-D video demonstration: "Revascularization of the Brain: General Aspects and Surgical Anatomy". Symposium on Future Directions for the Neurosurgical Team: Spinal and Vascular Neurosurgery. Department of Neurosurgery, Albert Einstein College of Medicine and Montefiore Medical Center, New York, New York, December 7, 1993.
16. Lecture and 3-D video live demonstration: "Practical Anatomy of the Skull and Intracranial Structures in 3D. The Fourth Annual Decade of the Brain: Neuroscience Nursing in the 1990s. The Toledo Hospital and Medical College Hospitals. Toledo, Ohio, November 13, 1994.
17. Lecture: "The History of Practical Anatomy Workshops and CONRIO. III CONRIO - International Practical Course of Neurosurgery". Department of Neurosurgery, Federal University of Rio de Janeiro School of Medicine. Rio de Janeiro, Brazil, July 4, 1995.

18. Lecture: "A Continuing Education Program in Neurosurgery: Practical Anatomy Workshops". Department of Neurosurgery. Federal University of Sao Paulo. Sao Paulo, Brazil, July 10, 1995.
19. Grand-Rounds: "Neuroendoscopy and Ventricular Anatomy Applied to Endoscopic Neurosurgery". Department of Neurosurgery, West Virginia University, Morgantown, West Virginia, August 27, 1995.
20. Lecture and 3-D video live demonstration. "Transcortical and Transcallosal Approaches to the Ventricular System". Singapore - St. Louis Hands-on Workshop in Microsurgical Approaches to the Brain. National Academy of Medicine of Singapore. Singapore, September 8, 1995.
21. Lecture and video demonstration. "Endoscopic and Microsurgical Anatomy of the Ventricular System". Singapore - St. Louis Hands-on Workshop in Microsurgical Approaches to the Brain. National Academy of Medicine of Singapore. Singapore, September 8, 1995.
22. Lecture and video demonstration. "Endoscopic and Microsurgical Anatomy of the Ventricular System". Singapore - St. Louis Hands-on Workshop in Microsurgical Approaches to the Brain. National Academy of Medicine of Singapore. Singapore, September 8, 1995.
23. Panel: "Resident Training: How to Teach Anatomy. The Use of Anatomic Specimens, Setting Up an Anatomic Laboratory, Developing a Curriculum Computer-Aided Anatomy Training". 87th Meeting of the Society of Neurological Surgeons. Chicago. IL, May 14, 1996.
24. Lecture: "Anatomical Foundations for Endoscopy and Microsurgery of the Ventricular System". Presented at the Plenary Session of the 25<sup>th</sup> Meeting of the Brazilian Society of Neurosurgery. September 6, 1996, Curitiba, Brazil.
25. Lecture: "Future Trends in Medical Education". Department of Neurosurgery, Faculdade de Medicina da Universidade de Santo Amaro, September 25<sup>th</sup>, 1998, Santo Amaro, SP, Brazil.
26. Lecture: "Cerebral Protection". Sao Paulo Academy of Medicine, April 20<sup>th</sup>, 1999, Sao Paulo, SP, Brazil
27. Lecture: "Complications of Neurosurgical Endoscopy". Department of Neurosurgery, Universidade Federal de Sao Paulo, June 3<sup>rd</sup>, 1999, Sao Paulo, SP, Brazil
28. Lecture and video live demonstration: Microanatomy and Microsurgical Approaches to the Orbit and Central Skull Base. Department of Ophthalmology, Mount Sinai School of Medicine, April 26, 2000, New York, NY
29. Lecture and video live demonstration: Microanatomy and Microsurgical Approaches to the Orbit, Skull base and Cavernous sinus. Department of ENT, Mount Sinai School of Medicine, April 2001, New York, NY
- 1994-1999 Director of Workshops, organized CME activities at Saint Louis University School of Medicine, Full-time
1. "Microsurgery of the Temporomandibular Joint". Sponsored by Practical Anatomy Workshop, St. Louis University School of Medicine, and St. Louis University Graduate

Program in Orthodontics in cooperation with the Oral Facial Surgery Center. October 28 - 29, 1994. Saint Louis, MO.

2. "Lumbar Spine and Hip". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology, The Department of Orthopedic Surgery St. Louis University School of Medicine. November 3, 1994. Saint Louis, MO.
3. "Chronic Ear Disease". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. November 11 - 13, 1994. Saint Louis, MO.
4. "Practical Brain Anatomy for Nurses, Physician Assistants and Surgical Technologists". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine in collaboration with Codman and Shurtleff, Inc., a Johnson & Johnson Company. November 18 - 19, 1994. Saint Louis, MO.
5. "Basic Techniques in Lumbar Decompression, Instrumentation and Stabilization". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. January 26 -28, 1995. Saint Louis, MO.
6. "The Hand". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology, The Department of Orthopedic Surgery St. Louis University School of Medicine. February 4, 1995. Saint Louis, MO.
7. "Neurosurgical Endoscopy: Basic and Advanced Application". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology, The Division of Neurosurgery St. Louis University School of Medicine. February 10 - 11, 1995. Saint Louis, MO.
8. "Advanced Human Neuroanatomy". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. February 17 - 19, 1995. Saint Louis, MO.
9. "The Knee". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology, and The Department of Orthopedic Surgery St. Louis University School of Medicine. March 11, 1995. Saint Louis, MO.
10. "Surgical Management of the Skull Base". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. March 23 - 26, 1995. Saint Louis, MO.
11. "Neurosurgical Endoscopy Basic and Advanced Applications". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. April 7 - 8, 1995. Saint Louis, MO.
12. "Microsurgical Techniques for Epilepsy and Intrinsic Brain Tumors". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. April 28 -29, 1995. Saint Louis, MO.
13. "Spinal Fracture Fixation". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology, The Department of Orthopedic Surgery, and The Division of Neurosurgery St. Louis University School of Medicine. May 1 - 5, 1995. Saint Louis, MO.
14. "Orbital Repair and Reconstruction". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine, The

Department of Ophthalmology Anheuser-Busch Eye Institute, Department of Otolaryngology - Head and Neck Surgery. May 12 - 13, 1995. Saint Louis, MO.

15. "Advanced Microsurgical Approaches to the Lumbar and Cervical Spine". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. June 2 - 4, 1995. Saint Louis, MO.
16. "Flaps for the Upper and Lower Extremity". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. June 9 - 11, 1995. Saint Louis, MO.
17. "Microsurgical Approaches to Intracranial Aneurysms". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. June 15 -17, 1995. Saint Louis, MO.
18. "Neurosurgical Endoscopy: Basic and Advanced Applications". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. June 23 - 24, 1995. Saint Louis, MO.
19. "Advanced Human Neuroanatomy with Clinical Correlations". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. September 8 - 10, 1995. Saint Louis, MO.
20. "Practical Brain Anatomy for Nurses, Physician Assistants and other Health Care Professionals". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine, in collaboration with Codman and Shurtleff, Inc., a Johnson & Johnson Company. September 29 - October 1, 1995. Saint Louis, MO.
21. "Surgical Approaches to the Skull Base". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine, in conjunction with Department of Neurosurgery University of Arkansas College of Medicine. October 10 - 12, 1995. Saint Louis, MO.
22. "Neurosurgical Endoscopy: Basic and Advanced Applications". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. October 27 - 28, 1995. Saint Louis, MO.
23. "Craniofacial Surgery and Transfacial Approaches to the Skull Base". Sponsored by Practical Anatomy Workshop, The Department of Anatomy - Neurobiology St. Louis University School of Medicine. December 8 - 10, 1995. Saint Louis, MO.
24. "Neurosurgical Approaches to the Carotid Artery". Sponsored by Practical Anatomy, Department of Anatomy and Neurobiology at Saint Louis University School of Medicine and The Joint Section on Cerebrovascular Surgery of AANS (American Association of Neurological Surgeons) and CNS (Congress of Neurological Surgeons). January 22, 1996. Saint Louis, MO
25. "Techniques of Lumbosacral Fixation and Decompression". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. January 26-7, 1996. Saint Louis, MO.
26. "Endoscopic Plastic Surgery". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. February 13-15, 1996. Saint Louis, MO.

27. "Advanced Human Neuroanatomy". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. February 16-18, 1996. Saint Louis, MO.
28. "State of the Art Temporomandibular Joint Microsurgery". Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology at Saint Louis University School of Medicine, Graduate Program in Orthodontics and Oral Facial Surgery Center, March 15-17, 1996. Saint Louis, MO.
29. "Neurosurgical Endoscopy - Basic and Advanced Applications". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. March 22-23, 1996. Saint Louis, MO.
30. "Fractures of the Upper Extremity". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. April 16, 1996. Saint Louis, MO.
31. "Microsurgical Approaches to Intracranial Aneurysms". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. April 25-26, 1996. Saint Louis, MO.
32. "Microsurgery of the Cavernous Sinus". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. May 2-4, 1996. Saint Louis, MO.
33. "Debridement - Methods to Maximize Wound Healing Potential". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. May 13, 1996. Saint Louis, MO.
34. "Neurosurgical Endoscopy - Basic and Advanced Applications". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. June 14-15, 1996. Saint Louis, MO.
35. "Surgical Management of the Skull Base". Sponsored by Practical Anatomy Workshop and the Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. June 24-27, 1996. Saint Louis, MO.
36. "The Hand". Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology and Department of Orthopedic Surgery at Saint Louis University School of Medicine. June 29, 1996. Saint Louis, MO.
37. "Neurosurgical Endoscopy - Basic and Advanced Applications". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. September 6-7, 1996. Saint Louis, MO.
38. "Spinal Fracture Fixation". Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology and Department of Orthopedic Surgery at Saint Louis University School of Medicine. September 9-12, 1996. Saint Louis, MO.
39. "The Ankle and Foot". Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology and Department of Orthopedic Surgery at Saint Louis University School of Medicine. September 19, 1996. Saint Louis, MO.
40. "Advances in Cosmetic Blepharoplasty and Brow lift". Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology and Department of Ophthalmology



- Anheuser Bush Eye Institute at Saint Louis University School of Medicine. September 20-21, 1996. Saint Louis, MO.

41. "Hands-On Intensive Course on the Perspectives of the Pterional Approaches". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. September 24-27, 1996 Saint Louis, MO...
42. "Neuroanatomy for Neurologists and Psychiatrists". Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology and Department of Neurology at Saint Louis University School of Medicine. October 4-6, 1996. Saint Louis, MO.
43. "Debridement - Methods to Maximize Wound Healing Potential". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. October 7, 1996. Saint Louis, MO.
44. "Anatomy for Microsurgery and Endoscopy of the Lumbar and Cervical Spine". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. October 18-19, 1996. Saint Louis, MO.
45. "Practical Spine Anatomy". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. October 18-19, 1996. Saint Louis, MO.
46. "Spinal Joint Pain: Pain Generators and Clinically Relevant Nociceptive Pathways". Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology at Saint Louis University School of Medicine and the National College of Chiropractics. November 8-9, 1996. Saint Louis, MO.
47. "Neurosurgical Endoscopy - Basic and Advanced Applications". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. November 15-16, 1996. Saint Louis, MO.
48. "The Wrist and the Elbow". Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology and Department of Orthopedic Surgery at Saint Louis University School of Medicine. November 23, 1996. Saint Louis, MO.
49. "Craniofacial Surgery and Transfacial Approaches to the Skull Base". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. December 6-8, 1996. Saint Louis, MO.
50. "Surgical Approaches to the Skull Base". Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology at Saint Louis University School of Medicine and Department of Neurosurgery at the University of Arkansas College of Medicine. March 27 - 29, 1997. Saint Louis, MO.
51. "II Hands-On Workshop on Microsurgical Techniques for Epilepsy and Intrinsic Brain Tumors". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. April 8 -10, 1997. Saint Louis, MO.
52. "Neurosurgical Endoscopy - Basic and Advanced Applications". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. May 23 - 24, 1997. Saint Louis, MO.

53. "Hands-On Intensive Course Microsurgery of the Cavernous Sinus". Sponsored by Practical Anatomy Workshop, Midas Rex Institute and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. June 6 - 8, 1997. Saint Louis, MO.
54. "Endoscopic Release of the Carpal Tunnel". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. September 20, 1997. Saint Louis, MO.
55. "Hands-On Intensive Course on the Perspectives of the Pterional Approaches". Sponsored by Practical Anatomy Workshop, Midas Rex Institute and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. September 23 - 26, 1997. Saint Louis, MO.
56. "Skull Base and Related Craniofacial Surgery". Sponsored by Practical Anatomy Workshop, Leibinger and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. October 3 - 5, 1997. Saint Louis, MO.
57. "Microsurgery of Peripheral Nerves". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. October 24 - 26, 1997. Saint Louis, MO.
58. "Recent Advances in Approaches to Sellar and Parasellar Pituitary Tumors". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. October 31 - November 1, 1997. Saint Louis, MO.
59. "Neurosurgical Endoscopy - Basic and Advanced Applications". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. November 14 - 15, 1997. Saint Louis, MO.
60. Craniofacial Surgery and Transfacial Approaches to the Skull Base". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. December 5 - 7, 1997. Saint Louis, MO.
61. "Surgical Approaches to the Skull Base". Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology at Saint Louis University School of Medicine and Department of Neurosurgery at University of Arkansas for Medical Sciences. April 23 - 25, 1998. Saint Louis, MO.
62. "Microsurgery of the Cavernous Sinus". Sponsored by Practical Anatomy Workshop and Department of Anatomy and Neurobiology at Saint Louis University School of Medicine. October 9 - 11, 1998. Saint Louis, MO.
63. "Neurosurgical Approaches to the Carotid Artery" Sponsored by Practical Anatomy Workshop, Department of Anatomy and Neurobiology at Saint Louis University School of Medicine and The Saint Louis Metropolitan Medical Society. March 20 - 21, 1999. Saint Louis, MO.
- 2000 Faculty, Second Year Medical Students, Course: Brain and Behavior, three hours weekly, Mount Sinai School of Medicine, New York, NY
- 2000 Faculty, Second Year Medical Students, Course: Medical Neuroscience, six hours weekly, The Sophie Davis School of Medicine, City University of New York, New York, NY

- 2000 Faculty, First Year Medical Students, Course: Anatomy, Lecture, Mount Sinai School of Medicine, New York, NY
- 2000-2001 Mentor, Neurosurgical Resident Research Elective (1 year), Mount Sinai School of Medicine, Department of Neurosurgery, New York, NY
- 2001-2005 Neuroanatomist, through a NIH-funded Neuroimaging Core mechanism (PI: Mory J. de Leon, Ed.D.), trained, supervised and consulted with local and foreign visiting imaging scientists in the fields of neuroanatomy and anatomical segmentation, Neuroimaging Research Laboratory, Center for Brain Health, Department of Psychiatry, New York University School of Medicine, New York, NY
- 2008 Faculty, "Visiting Fellowship in Electroconvulsive Therapy", Sponsored by the Division of Brain Stimulation and Therapeutic Modulation, Department of Psychiatry, Columbia university College of Physicians and Surgeons. Lecture: " Brodmann Area 25 directed deep brain stimulation in the treatment of major depression disorder". August 21-25, New York, NY.

## **Bibliography**

### **PEER REVIEWED ARTICLES:**

#### Published Articles:

1997

1. Guppy K.H., Origitano T.C., **Segal S.**, Reichman O.H. Venous Drainage of the Inferior-Lateral Temporal Lobe in Relationship to Transtemporal/Transtentorial Approaches to the Skull Base. *Neurosurgery* 41: 615 - 620, 1997.

2002

2. De Leon MJ, **Segal S**, Tarshish CY, DeSanti S, Zinkowski R, Mehta PD, Convit A, Caraos C, Rusinek H, Tsui W, Saint Louis LA, DeBernardis J, Kerkman D, Qadri F, Gary A, Lesbre P, Wisniewski T, Poirier J, Davies P. Longitudinal cerebrospinal fluid tau load increases in mild cognitive impairment. *Neurosci Lett.* 2002 Nov 29; 333(3):183-6

2003

3. Shrivastava RK, **Segal S**, Cammins MB, Sen C, Post KD. Harvey Cushing's Meningiomas text and the historical origin of respectability criteria for the anterior one third of the superior sagittal sinus. *J Neurosurg.* 2003 Oct; 99(4):787-91

2004

4. De Leon MJ, DeSanti S, Zinkowski R, Mehta PD, Pratico D, **Segal S**, Clark C, Kerkman D, DeBernardis J, Li J, Lair L, Reisberg B, Tsui W, Rusinek H. MRI and CSF studies in the early diagnosis of Alzheimer's disease. *J Intern Med.* 2004 Sep; 256(3):205-23.
5. Rusinek H, Endo Y, DeSanti S, Frid D, Tsui WH, **Segal S**, Convit A, de Leon MJ. Atrophy rate in medial temporal lobe during progression of Alzheimer's disease. *Neurology.* 2004 Dec 28; 63(12):2354-9.

2005

6. Golier JA, Yehuda R, De Santi S, **Segal S**, Dolan S, de Leon MJ. Absence of Hippocampal volume differences in survivors of the Nazi Holocaust with and without Post-traumatic stress disorder. *Psychiatric Res* 2005 May 30, 139(1):53-64

2006

7. Li Y, Li J, **Segal S**, Wegiel J, De Santi S, Zhan J, de Leon MJ. Hippocampal cerebrospinal fluid spaces on MR imaging: Relationship to aging and Alzheimer's disease. *Am J Neuroradiol.* 2006 Apr;27(4):912-8
8. de Leon MJ, DeSanti S, Zinkowski R, Mehta PD, Pratico D, **Segal S**, Rusinek H, Li J, Tsui W, Saint Louis LA, Clark CM, Tarshish C, Li Y, Lair L, Javier E, Rich K, Lesbre P, Mosconi L, Reisberg B, Sadowski M, DeBernardis JF, Kerman DJ, Hampel H, Wahlund LO, Davies P. Longitudinal CSF and MRI biomarkers improve the diagnosis of mild cognitive impairment. *Neurobiol Aging.* 2006 Mar;27(3):394-401
9. Devanand DP, Pradhaban G, Liu X, Khandji A, De Santi S, Segal S, Rusinek H, Pelton GH, Honig LS, Mayeux R, Stern Y, Tabert MH, de Leon MJ. Hippocampal and entorhinal atrophy in mild cognitive impairment: prediction of Alzheimer disease. *Neurology.* 2007 Mar 13;68(11):828-36.

#### Articles in Preparation

10. \* **Segal S**, Moore H The effects of local high frequency electrical stimulation on monoamine efflux in the subgenual cingulate cortex (Brodmann area 25) and its striatal and thalamic projection regions.

#### CHAPTERS AND BOOKS:

1997

1. \* **Segal, S.** Endoscopic Anatomy of the Ventricular System. (Chapter) In: King, W.A., Frazee, J.G., De Salles, A.: *Endoscopy of the Central and Peripheral System.* George Thieme Verlag, New York, 1997.

1999

2. \* **Segal, S.** Endoscopic Surgical Anatomy. (Chapter) In: Jimenez, D.: *Intracranial Endoscopic Neurosurgery.* AANS Publications, Chicago, 1999.

#### ABSTRACTS:

1983

1. \***Segal, S.**, Xavier, R.G.: "Bronchoalveolar Lavage in the Study of Diffuse Interstitial Lung Diseases". Presented at the 21<sup>st</sup> Brazilian Congress of Transoral Endoscopy. Brazilian Society of Transoral Endoscopy. Sao Paulo, Brazil, September 4, 1983

1986

2. \***Segal, S.**, Alencastro, L.C., Cattan, J.M., Heemann, A.C.: "Microsurgical Anatomy of the Optic Canal: Morphology and Surgical Correlations". Presented at the 3rd Scientific Week of the Federal Faculty Foundation of Medical Sciences. Porto Alegre, Brazil, April 12, 1986.

1992

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