

# CURRICULUM VITAE

Suma Jacob, M.D., Ph.D.

*University of Illinois at Chicago*

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**Suma Jacob, M.D., Ph.D.**

**BIOGRAPHICAL**

**Business Address:** University of Illinois at Chicago  
Institute for Juvenile Research  
1747 W. Roosevelt Road, MC747  
Chicago, IL 60608

**Email Address:** sjacob@psych.uic.edu

**Business Phone:** (312) 413-4623

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**EDUCATION AND TRAINING**

**UNDERGRADUATE**

1991 University of Chicago, The College A.B. Psychology

**GRADUATE**

1998 University of Chicago, Bio. Sci. Div. Ph.D. Neurobiology  
1999 University of Chicago, Soc. Sci. Div. Research Fellow  
*Mentor: M. McClintock Ph.D.*  
2001 University of Chicago, Pritzker School M.D. Medicine

**POST-GRADUATE**

2001-2003 UCLA Neuropsychiatric Institute Resident, General Psychiatry  
2003-2005 University of Chicago Resident, General & Child  
2005-2006 University of Illinois at Chicago Resident, Child Psychiatry  
2006-2007 University of Illinois at Chicago Chief Resident, Rsch. Fellow  
Lab. of Developmental Neuroscience *Mentor: E. Cook, Jr., M.D.*  
Brian Body Center *Mentor: C. Sue Carter, Ph.D.*

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**APPOINTMENTS AND POSITIONS**

2007-present Assistant Professor of Clinical Psychiatry & Clinical Physician,  
Department of Psychiatry, University of Illinois at Chicago

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**CERTIFICATION & PHYSICIAN LICENSURE**

2002 Diplomat, National Board of Medical Examiners

2004 Illinois State Medical License No. 036-111292

2006 Diplomat, American Board of Psychiatry and Neurology  
Specialty of Psychiatry, No. 56023

2007 Diplomat, American Board of Psychiatry and Neurology  
Subspecialty of Child and Adolescent Psychiatry, No. 6252

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**PROFESSIONAL SOCIETIES**

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1991-2001 American Medical Women's Association (AMWA), Pritzker Chapter Chair (1992-3)  
1994-2003 Society for Neuroscience  
1995-2001 Association for Chemoreception Sciences  
2003+ American Psychiatric Association  
2003+ American Association of Child and Adolescent Psychiatry  
2004+ Chicago Center for Study of Groups and Organizations & A. K. Rice Institute  
2004+ International Society for Research in Child and Adolescent Psychopathology

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**HONORS, FELLOWSHIPS AND AWARDS**

1991 Honors in the College, University of Chicago  
1991 Honors in Psychology, Concentration & Thesis, University of Chicago  
1993 Merit Award for Pritzker Medical School Summer Research  
1998 Association for Chemoreception Sciences, Student Travel Award  
2001 Sigma Xi Scientific Research Society  
2003 AACAP Outstanding Gen. Psychiatry Resident Award/Travel Grant  
2003-2006 HealthEmotions Research Institute Scholar Travel Awards  
2004 APA/Lilly Executive Leadership Program  
2004-2006 APA/GSK Fellowship for Future Leaders in Psychiatry  
2005 APA Research Colloquium for Junior Investigators  
2005 AKRI. & CCSGO Ruffin Scholarships for the 2005 AKRI Leadership Instit.  
2005 American College of Neuropsychopharmacology-NIMH Travel Fellow  
2004-2005 CCSGO and AKRI awarded support for Regional/National Conferences  
2006-2007 Laughlin Fellow, The American College of Psychiatry  
2006-2007 AATP Fellow, Utilizing Technology for Education and Research  
2006 Career Development Institute for Psychiatry, Univ. Pittsburgh/Stanford  
2006 AADPRT, P. Henderson Honors Award for an unpublished paper  
2006 ICCAP, J. G. Hirsch Memorial Award for an original article  
2008 Foundations of Human Social Behavior, Travel Award

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**SCHOLARSHIPS AND FUNDING SUPPORT**

1994-2001 Graduate Training in Growth and Development (5T32HD007009), M.D./Ph.D. program, the oldest integrated program in the U.S.  
1997 Women's Council of the Brain Research Foundation Scholarship  
1998-1999 The Tova National Fellowship for Olfactory Research  
2004-2007 National Institute of Health, Pediatric Research Loan Repayment Program with a competitive renewal  
2005-2007 Training in Neuroscience of Mental Health (5T32MH067631)  
2006-2008 AACAP Pilot Research Award for Junior Faculty and Child Fellows  
2007-2009 NARSAD Young Investigators Grant  
2007-2008 Center for Clinical Translational Science Scholars Award

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2008-2013

NIH-K23 Mentored Research Development Award (MH082121)

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**RESEARCH EXPERIENCE**

- 1989-1991 University of Chicago, assisted with the clinical studies examining neuropsychological effects related to physiological changes from immunotherapy treatments for cancer.
- 1990-1991 University of Chicago, conducted study on brain hemispheric asymmetry in attention processing in young adults, designed a computerized, lateralized continuous performance task, received Honors for this project and Senior Thesis.
- 1991-1992 La Rabida Children's Hospital, University of Chicago, supervised research on parent support and time management for children with cerebral palsy and diabetes mellitus.
- 1993-1994 Positron Emission Tomography (PET) Center Independent Research Project, researched memory dysfunction in schizophrenia.
- 1993 Pritzker Summer Research Program, measured brain physiology changes with Positron Emission Tomography (PET) related to implicit memory using a serial reaction time task.
- 1994-1998 Doctoral Research focused on social signals that modulate brain physiology and human emotion. Thesis Title is *Steroids as human chemosignals: how isolated putative pheromones affect behavior, physiology and brain metabolism*. Interdisciplinary methods include functional neuroimaging, anatomical dissections, in-vivo endoscopy, hormonal tracking of reproductive physiology, psychophysiology and neuropsychology testing.
- 1998-1999 Post Doctoral Research. Project leader investigating how chemosensory and potential social preferences for other individuals are genetically influenced, with M. K. McClintock and C. Ober in Human Genetics. Project leader of multidisciplinary team exploring the physiological and psychological effects of breastfeeding chemosignals on other women, in collaboration with J. Mennella at the Monell Center in Philadelphia.
- 2003+ Clinical Research. Investigating physiological influences of early emotion and social development in children.
- 2003-2005 1) Study of heart rate variability, hormonal responses related to infant behavior and maternal history in high-risk and minority populations with K. Keenan, Ph.D.
- 2005-present 2) Study of autism, genetic and hormonal associations in a clinical population with Ed Cook, Jr., M.D., and S. Carter, PhD. Methodological skills include SNP genotyping, fragment length analysis, direct gene resequencing, traditional and novel ways to measure neuropeptides.
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**TEACHING EXPERIENCE**

**Courses:**

1. Course Name: Quest for Human Nature (Humanities/Bio. Science)  
Description: Teaching Assistant, Individual Tutorials  
Year(s): 1994  
No. of Times: Academic quarter, 10 weeks, 30+ hours class  
No. of Students: approximately 30  
Where: University of Chicago
2. Course Name: Brain, Perception and Behavior (Social/ Bio. Science)

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- Description: Teaching Assistant, Reviews, Single Lectures  
Year(s): 1995, 1997  
No. of Times: Academic Quarter, 10 weeks, 60+ hours labs/class  
No. of Students: approximately 60  
Where: University of Chicago
3. Course Name: Medical Neurobiology & Neuroanatomy (Medical/Bio. Science)  
Description: Laboratory Assistant, Group Tutorials  
Year(s): 1995, 1997, 1998  
No. of Times: Academic Quarter, 10 weeks, 120+ hours labs/class  
No. of Students: approximately 100  
Where: University of Chicago
4. Course Name: Essentials of Clinical Medicine (UIC Medical School)  
Description: Leader for Mental Status Workshop with standardized patients  
Year(s): 2005  
No. of Times: 2 three hour blocks of didactic and observational teaching  
No. of Students: approximately 8  
Where: University of Illinois at Chicago
5. Course Name: Normal Development and Child/Adolescent Psychopathology  
Description: Lecture on Pervasive Developmental Disorder/Autism  
Year(s): 2006 with observation of teaching and feedback on teaching  
No. of Times: One hour lecture as part of residence course curriculum  
No. of Students: approximately 6  
Where: University of Illinois at Chicago

**Research Supervisor:**

*The following are individuals that I mentored who continued on to independent research, graduate or medical school and became authors on original research articles.*

Shiela Garcia, undergraduate, summer(s) 1995-1997  
Davinder Hayreh, undergraduate-masters, 1995-1999  
Natasha Spenser, MD/PhD lab rotation, 1996  
Bethanne Zelano, undergraduate, 1996-1999  
Michelle Byrne, undergraduate, 2004-2005

**Clinical Supervisor:**

Psychiatry Clerkship Oral Board Examiner for 3<sup>rd</sup> Year Students 2003-2005  
Supervision of Medical Students during Psychiatric Clerkships  
General Psychiatry Resident Supervision in Child Psychiatry  
2005 supervision of one resident for child therapy and medications  
2006-7 weekly supervision of 2-3 general residents for child therapy and medications

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**ADMINISTRATIVE AND CLINICAL SERVICE**

1998-2001 Women in Science, mentor/mentee panel & program, Univ. of Chicago Chapter  
1998-2000 Parents at Pritzker, co-founding member of medical school organization  
1998-2001 Pritzker Women MD/PhD Group, University of Chicago  
2002-2003 UCLA Psychiatry Resident Research Track Committee, nominated resident member  
2003-2004 Started the Resident Clinic at Student Mental Health Center, Univ. of Chicago  
2003-2004 Asian/American Mentoring Program for Undergraduates, volunteer mentor  
2004-2005 Initiated a Preschool Social Skills Group, Child Psychiatry, Univ. of Chicago  
2004-2006 Trainee Member, APA Council of Medical Education and Lifelong Learning  
2005-2006 Implemented Child and Parent OCD, CBT group, Anxiety Clinic, UIC

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- 2006-2007 Oak Forest Psychological Services, group therapy for residential patients  
2006-2007 Chief Fellow, Child and Adolescent Psychiatry Training, UIC  
2008 Administrative Staff, Group Relations Conference, Seeking Competence, Discovering Authority, sponsored by CCSGO-AKRI at the Cenacle.
- 2007-present Reviewer for journals including Biological Psychiatry, Molecular Psychiatry, Neuroscience Letters and Psychiatry Research.
- 2007-present Attending Psychiatrist, Outpatient at the UIC Pediatric Stress & Anxiety Disorders Clinic with subspecialization skills in group therapy, cognitive behavioral therapy, family intervention & medication management in children with OCD, social anxiety/selective mutism, high functioning autism & developmental disorders. Treating ages preschool through adult, including women/mothers with co-morbid anxiety & depression. Inpatient call and coverage for intensive psychiatric treatment program for DCFS wards.
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**PUBLICATIONS**

**Peer-Reviewed Research Articles:**

1. **Jacob, S.**, Zelano, B., Gungor, A., Abbott, D., Naclerio, R., and McClintock, M. K. Location and Gross Morphology of the Nasopalatine Duct in Human Adults, Archives of Otolaryngology, Head & Neck Surgery, Vol. 126, pp. 741-748, 2000.
2. **Jacob, S.** and McClintock, M. K. Psychological state and mood effects of steroidal chemosignals in women and men. Hormones and Behavior, Vol. 37, pp. 57-78, 2000.
3. **Jacob, S.**, Metz, J., Kinnunen, L., Cooper, M. and McClintock, M. K. Sustained human chemosignal unconsciously alters brain function. Neuroreport, Vol. 12 (11), pp. 2391-2394, August, 2001.
4. **Jacob, S.**, Hayreh, D. J. S. and McClintock, M. K. Context-dependent effects of steroid chemosignals on human physiology and mood. Physiology & Behavior, Vol. 74 (1-2), pp. 15-27, September 1, 2001
5. **Jacob, S.**, Garcia, S., Hayreh, D. J. S. and McClintock, M. K. Psychological effects of musk compounds: comparison of androstadienone with androstenol and muscone, Hormones and Behavior, Vol. 42 (3), pp. 274-283, 2002.
6. **Jacob, S.**, McClintock, M. K., Zelano, B., Ober, C. Paternally inherited HLA alleles are associated with women's choice of male odor. Nature Genetics, Vol. 30 (2), pp. 175-179, February, 2002.
7. McClintock, M. K., Schumm, P., **Jacob, S.**, Zelano, B., Ober, C. The MHC and body odors: arbitrary effects cause by shifts of mean pleasantness – Reply. Nature Genetics, Vol. 31 (3), pp. 237-238, July, 2002.
8. Bullivant, S. B., Sellegren, S. A., Stern, K., Spencer, N. A., **Jacob, S.**, Mennella, J. A. and McClintock, M. K. Women's sexual experience during the menstrual cycle: identification of the sexual phase by noninvasive measurement of luteinizing hormone. The Journal of Sexual Research, Vol. 41, pp. 82-93, 2004.
9. Spencer, N. A., McClintock, M. K., Sellegren, S. A., Bullivant, S. B., **Jacob, S.** and Mennella, J. A. Social chemosignals from breastfeeding women increase sexual motivation. Hormones and Behavior, Vol. 46 (3), pp. 362-370, 2004.
10. **Jacob, S.**, Spencer, N. A., Bullivant, S. B., Sellegren, S. A., Mennella, J. A. and McClintock, M. K. Effects of breastfeeding chemosignals on the human menstrual cycle. Human Reproduction, Vol. 19, pp. 422-429, 2004.
11. McClintock, M. K., Bullivant, S., **Jacob, S.**, Spencer, N., Zelano, B., Ober, C. Human body scents: conscious perceptions and biological effects. Chemical Senses 30 (S1), pp. 135-137, 2005.
12. **Jacob, S.**, Brune, C., Carter, C. S., Leventhal, B., Lord, C, Cook, E. Association with Oxytocin Receptor Gene (OXTR) in Children and Adolescents with Autism. Neuroscience Letter, 2007 Apr 24;417(1):6-9. Epub 2007 Feb 3.

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13. **Jacob, S.**, Byrne, M, Keenan, K. Neonatal physiological regulation is associated with perinatal factors: A study of neonates born to healthy African American women living in poverty. Infant Mental Health Journal, In Press.

**Book Chapters:**

1. McClintock, M. K., **Jacob, S.**, Zelano, B., Hayreh, D. J. S. Pheromones and vasanas: The functions of social chemosignals. French, J. A. (Ed); Kamil, A. C. (Ed); Leger, D. W. (Ed). Evolutionary psychology and motivation. Volume 47 of the Nebraska symposium on motivation. (pp. 75-112). Lincoln, NE, US: University of Nebraska Press. xxiii, 221 pp. (2001).
2. **Jacob, S.**, McClintock, M.K. B: iii: Social applications: Affiliation and sexuality. Cacioppo, J. T. (Ed); Berntson, G. G. (Ed); Adolphs, R. (Ed); Carter, C. S. (Ed); Davidson, R. J. (Ed); et al. Foundations in social neuroscience. Social neuroscience series. (pp. 893-961). Cambridge, MA, US: MIT Press. xii, 1345 pp. (2002).
3. **Jacob, S.**, Zelano, B., Hayreh, D. J S., McClintock, M. K. Assessing putative human pheromones. Rouby, C. (Ed); Schaal, B. (Ed); Dubois, D. (Ed); Gervais, R. (Ed); Holley, A. (Ed). Olfaction, taste, and cognition. (pp. 178-195). New York, NY, US: Cambridge University Press. (2002).
4. Keenan, K., **Jacob, S.**, D. Grace, D. Gunthorpe. Context matters: Exploring definitions of a poorly modulated stress response. Olson, S. L. (Ed); Sameroff, A. J. (Ed). Regulatory processes in the development of child behavior problems: Biological, behavioral, and social-ecological processes. New York, NY: Cambridge University Press. (In Press).
5. Jacob, S., Landeros-Weisenberger, A., Leckman, J. Interface between Autism Spectrum Disorders and Obsessive-compulsive Behaviors: A Genetic and Developmental Perspective. Amaral, D. (Ed); Geschwind, D. (Ed); Dawson, G. (Ed). Autism Spectrum Disorders. Oxford University Press (In Press).
6. Jacob, S., Carter, C. S. Neuropeptide hormones and Autism. Fein, D. (Ed). The Neuropsychology of Autism. Oxford University Press (In Preparation).

**Other Publications:**

1. Pliskin, N.H., Heller, W., **Jacob, S.**, Skosey, P., Ramming, K., Richards, J., Gregory, S., Vogelzang, N., Bluestone, J. and Yudofsky, S. The Neuropsychological Deficits Associated With OKT3 Treatment. The Eighteenth Annual Report of Cancer Research at the University of Chicago, 1991.
2. **Jacob, S.** and McClintock, M.K.M. Volatile Human Steroids: what they do and don't do. The Official Publication for the Olfactory Research Fund, Vol VII, No. 4., pp. 1-2. 1999.
3. **Jacob, S.** Steroids as human chemosignals: How isolated putative pheromones affect behavior, physiology and brain metabolism. Dissertation Abstracts International, Section B: The Sciences & Engineering, Vol. 59 (7-B) pp. 3270. January 1999.
4. **Jacob, S.** (2003, November 26) Medical reviewer for New Research in Child and Adolescent Bipolar Disorder & New Research in ADHD. Highlights of the Child and Adolescent Psychiatry Annual Meeting in Medscape Today, <http://www.medscape.com/viewprogram/2797>.
5. Huang, D., **Jacob S.** Component reports on the APA Council of Medical Education and Lifelong Learning. Apex APA Newsletter, 2004 and 2005, [www.psych.org/join\\_apa/mb/newsletters/gsk/Apex](http://www.psych.org/join_apa/mb/newsletters/gsk/Apex).
6. **Jacob, S.** (2006, July) The Impact of Insomnia on Sleep: An Expert Interview with Daniel Buysse, MD. The Neuroscience Institute, Medscape from WebMD, <http://www.medscape.com/infosite/nsi/content/article-0207-insomnia>.
7. **Jacob, S.** (2006, October 2) Diagnosis and treatment of conduct disorder. Virtual Mentor, American Medical Association Journal of Ethics, October 2006, <http://www.ama-assn.org/ama/pub/category/16858.html>.
8. **Jacob, S.** (2006, December) Highlights from the Society for Neuroscience Annual Meeting: Cognition and Diets, Alzheimer's Disease, Sleep and Gender-related Topics. The Neuroscience Institute, Medscape from WebMD, <http://www.medscape.com/infosite/nsi/content/article-0107-ns2006>.

**CONFERENCE PRESENTATIONS & ABSTRACTS**

1. Pliskin, N., Heller, W., and **Jacob, S.** Neuropsychological Aspects of Selected Cancer Treatments. The Annual Meeting of the Midwest Neuropsychology Group, Milwaukee, Wisconsin, 1991.
2. Pliskin, N., Heller, W., **Jacob, S.**, Ramming, K., Richards, J., Crone, N. and Vogelzang, N. Neuropsychological deficits and biological correlates associated with central nervous system inflammation. The 19<sup>th</sup> Annual Meeting of the International Neuropsychological Society, San Antonio, 1991. *Journal of Clinical and Experimental Neuropsychology*, 13 (1), 112, 1991.
3. Pliskin, N.H., Richards, J., **Jacob, S.**, Cunningham, J., Ramming, K., Cassisi, J. and Vogelzang, N. The Neuropsychological Effects of Concomitantly Administered Interleukin-2 (IL-2) and alpha-Interferon (INF). American Association for Cancer Research, San Diego, 1992. *Proceedings of the American Association for Cancer Research*, 33, 258, May, 1992.
4. Gosselink, C. A., **Jacob, S.**, Brazdzuinas, D. Social Support of Caregivers of Chronically Ill Children. The 120th Annual American Public Health Association Meeting, Washington, 1992.
5. **Jacob, S.**, Heller, W. and Pliskin, N.H. Hemispheric Asymmetries in Attention on a Lateralized Continuous Performance Task. The 20th Annual Meeting of the International Neuropsychological Society, San Diego, 1992. *Journal of Clinical and Experimental Neuropsychology*, 14 (1), 90, 1992.
6. **Jacob, S.**, Zelano, B., Gungor, A., Corey, R.M., Naclerio, R. and McClintock, M. K. Individual differences in the human vomeronasal organ. The 27<sup>th</sup> Annual Meeting for the Society for Neuroscience, New Orleans, LA., 1997. *Society for Neuroscience Abstracts*, Vol. 23, p. 2077, 1997.
7. **Jacob, S.** and McClintock, M.K.M. Putative human pheromones function as state modulators rather than behavior releasers. The 20th Annual Meeting for the Association for Chemoreception Sciences, Sarasota, FL, 1998. *Chemical Senses*, Vol 23 (5), p. 564, 1998.
8. **Jacob, S.** and McClintock, M.K.M. Putative human pheromones and behavior: testing the perfumer's claim. The 2<sup>nd</sup> Annual Meeting of Society for Behavioral Neuroendocrinology, Atlanta, GA, 1998.
9. **Jacob, S.** and McClintock, M.K.M. Psychological effects of musky compounds: comparison of delta-4,16 androstadien-3-one, androstenol and muscone. The 21st Annual Meeting for the Association for Chemoreception Sciences, Sarasota, FL, 1999. *Chemical Senses*, Vol. 24 (5), p. 583, 1999.
10. Bullivant, S. B., Spencer, N. A., **Jacob, S.**, Sellegren, S. A., Mennella, J. A. and McClintock, M.K.M. Odor characteristics of breastfeeding chemosignals. The 22nd Annual Meeting for the Association for Chemoreception Sciences, Sarasota, FL, 2000. *Chemical Senses*, Vol 25 (5), 2000.
11. Spencer, N. A., **Jacob, S.**, Sellegren, S. A., Bullivant, S. B., Mennella, J. A. and McClintock, M. K. Effects of breastfeeding chemosignals on the human menstrual cycle. The 22nd Annual Meeting for the Association for Chemoreception Sciences, Sarasota, FL, 2000. *Chemical Senses*, Vol. 25 (5), 2000.
12. **Jacob, S.**, Hayreh, D. J. S. and McClintock, M. K., Autonomic nervous system and psychological responses to putative human pheromones. The 30<sup>th</sup> Annual Meeting for the Society for Neuroscience, New Orleans, LA, 2000. *Society for Neuroscience Abstracts*, Vol. 26, p. 2200, 2000.
13. Hayreh, D. J. S., **Jacob, S.**, and McClintock, M. K., Context Affects ANS And Psychological Responses To Putative Pheromones. The 23rd Annual Meeting for the Association for Chemoreception Sciences, Sarasota, FL, 2001. *Chemical Senses*, Vol. 26 (8), 2001.
14. McClintock, M. K., **Jacob, S.**, Zelano, B. and Ober, C. Preferences for human odors are associated with paternally inherited HLA alleles. The 6<sup>th</sup> Annual Meeting for the Society of Behavioral Neuroendocrinology, Amherst, MA, 2002.
15. Spencer, N. A., **Jacob, S.**, Sellegren, S. A., Bullivant, S. B., Mennella, J. A. and McClintock, M. K. Effects of breastfeeding chemosignals on the human sexual motivation. The 24th Annual Meeting

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- for the Association for Chemoreception Sciences, Sarasota, FL, 2002. *Chemical Senses*, Vol. 27 (7), 2002.
16. **Jacob, S.** and Keenan, K. Heart rate and variability in healthy African-American neonates: Associations with maternal depression and pre-postnatal experiences. APA Research Colloquium for Junior Investigators, talk and poster presentation scheduled in Atlanta, GA 2005.
  17. **Jacob, S.** and Keenan, K. Individual Differences in Physiological Regulation and Early Development of African-American Infants Living in Poverty. The American College of Psychopharmacology 44<sup>th</sup> Annual Meeting, Hawaii. *Neuropsychopharmacology*, Vol. 30, S1, 2005.
  18. Anzia, J. M., Tong, L. D., Thornhill, J. T., Feldman, T. B., Lauterbach, M. **Jacob, S.** How To Be a More Creative Teacher: Winning Strategies for Residents and Faculty. APA Component Workshop. Toronto, May 2006.
  19. **Jacob, S.**, Brune, C., Carter. C. S., Leventhal, B., Lord, C, Cook, E. Association with Oxytocin Receptor Gene (OXTR) in Children and Adolescents with Autism. The American College of Psychopharmacology 44th Annual Meeting, Florida, to be presented December 2006.
  20. **Jacob, S.**, Brune, C., Carter. C. S., Leventhal, B., Lord, C, Cook, E. Association with Oxytocin Receptor Gene (OXTR) in Children and Adolescents with Autism. The International Meeting for Autism Research, Seattle, Washington, May 2007.
  21. **Jacob, S.**, Cook, E. Carter. C. S. Oxytocin & Vasopressin neuropeptide hormone genes in Autism. Tenth Annual Future Leaders in Psychiatry meeting that will be held May 22-25, 2008, in Orlando, FL
  22. **Jacob, S.**, Brune, C., Carter. C. S., Leventhal, B, Cook, E. An investigation of autism and OT & AVP neuropeptide genes. Foundations of Human Social Behavior meeting that will be held June 18-21, 2008, University of Zurich.
  23. **Jacob, S.**, Brune, C., Carter. C. S., Leventhal, B., Cook, E. Oxytocin and Vasopressin Neuropeptide Genes in Autism. 12<sup>th</sup> annual meeting of Society for Behavioral Neuroendocrinology that will be held at Groningen, July 7-10, 2008.
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**INVITED LECTURES**

1. Memory dysfunction in Schizophrenia. Lecture for the Neurology of Behavior Colloquium, Northwestern University, 1993.
2. Scents and Sensibility: Does the Accessory Olfactory System Exist in Humans? Economies of the Senses, Chicago Humanities Institute, 1995.
3. Comprehensive treatment options for mothers with a history of opiod dependence. Illinois Department of Child and Family Service Intervention, September 2005.
4. Using Buprenorphine to treat mothers with opiod addiction. Intact Family Recovery Program, Department of Child and Family Services, October 2005.
5. Neonatal differences in autonomic reactivity: Associations with maternal depression and perinatal stress. Illinois Council of Child and Adolescent Psychiatry, Chicago, 2006.
6. Neuropeptide hormones and potential pathway genes in Autism. Food for Thought Intellectual Exchange Series, UIC, June 2007.
7. Careers in Healthcare: Curing your Quandary, Panelist for Taking the Next Step, University of Chicago Class of 2009, January 2008.
8. Oxytocin and Vasopressin Genes and Autism. Center for Health Services Research & Clinical Research Training Program Works in Progress Seminar, UIC, February 2008.
9. Clinical Cross-Talk: Diagnostic Neighborhoods in Children's Mental Health. Food for Thought Intellectual Exchange Series, UIC, July 2008.