

## Virginia Commonwealth University BIRCWH Scholars

**Kristen Jacobson, Ph.D.**

**Date of BIRCWH Appointment – 9/1/01**

Kristen has been awarded an K01 and has informed this office that she will be moving off the BIRCWH program effective November 1, 2003.

### **Grants**

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|-----------|---|
| 2004-2008 | Competitive Renewal for a Twin-Family Study of Drug Use, Abuse, and Dependence. (K. Kendler, PI). NIDA \$1,000,000 total direct costs (Co-Principal Investigator). Submitted November 1, 2003.            |
| 2004-2008 | VETSA longitudinal twin study of cortisol and aging. (W. Kremen, PI). NIA1 R01 AG022982-01. \$1,504,264 total direct costs. PI of subcontract (\$163,182 total direct costs). Submitted November 1, 2003. |
| 2004-2008 | Axis I and Axis II psychiatric disorders in Norwegian Twins. (K. Kendler, PI). NIMH. \$1,500,338 total direct costs (Co-Investigator). Submitted July 1, 2003.  |
| 2004-2007 | Alternative phenotypes of substance abuse (M. Tsuang, PI). NIDA. \$375,000 total direct costs (Consultant). Submitted October 1, 2003.  |
| 2004-2009 | Risk Factors for Antisocial Behavior (L. Baker, PI). NIMH \$2,500,000 total direct costs (Consultant). Submitted November 1, 2003.  |

### **Publications**

Crider, A., Kremen, W.S., Xian, H., **Jacobson, K.C.**, Waterman, B., Eisen, S.A., Tsuang, M.T., & Lyons, M.J. (Accepted for publication). Stability, consistency, and heritability of electrodermal response lability in middle-aged Male Twins. *Psychophysiology*.

**Jacobson, K.C.**, Prescott, C.A., & Kendler, K.S. (Accepted for publication). Secular trends in similarity of childhood twin environments: Effects on twin similarity for Conduct Disordered behavior. *Twin Research*.

Kendler, K.S., Aggen, S.A., **Jacobson, K.C.**, & Neale, M.C. (2003). Does the level of family dysfunction moderate the impact of genetic factors on the personality trait of Neuroticism? *Psychological Medicine*, 33, 817-825.

Kendler, K.S., **Jacobson, K.C.**, Prescott, C.A., & Neale, M.C. (2003). The specificity of genetic and environmental risk factors in men for the illicit use and abuse/dependence of cannabis, cocaine, hallucinogens, sedatives, stimulants, and opiates. *American Journal of Psychiatry*, 160(4), 687-695.

Agrawal, A., **Jacobson, K.C.**, Prescott, C.A., & Kendler, K.S. (2002). A twin study of sex differences in social support. *Psychological Medicine*, 32, 1155-1164.

**Jacobson, K.C.**, Prescott, C.A., & Kendler, K.S. (2002). Sex differences in genetic and environmental influences on antisocial behavior from childhood to adulthood. *Development and Psychopathology*, 14, 395-416.

Kendler, K.S., **Jacobson, K.C.**, Myers, J. M., & Prescott, C.A. (2002). Sex differences in genetic and environmental risk factors for irrational fears and phobias. *Psychological Medicine*, 32, 209-217.

Kendler, K.S., Prescott, C.A., **Jacobson, K.C.**, Myers, J., & Neale, M.C. (2002). The joint analysis of personal interview and family history assessments: Evidence for validity of diagnosis and increased heritability estimates. *Psychological Medicine*, 32, 829-842.

Nuechterlein, K.H., Asarnow, R.F., Subotnik, K.L., Fogelson, D.L., Payne, D.L., Kendler, K.S., Neale, M.C., **Jacobson, K.C.**, & Mintz, J. (2002). The structure of schizotypy: Relationships between neurocognitive and personality disorder features in relatives of schizophrenic patients in the UCLA Family Study. *Schizophrenia Research (special edition)*, 54(1-2), 121-130.

### **Book Chapters & Reviews**

**Jacobson, K.C.** (In press). The genetic basis of substance use and abuse. To be published in *Bibliotheca Psychiatrica, Vol. No. 171, Special Issue: Dual Diagnosis*. R. Stohler & W. Rossler (Eds.). Basel, Switzerland: Karger Publications. (Book chapter)

**Jacobson, K.C.** (In press). Review of Pliskza, S.R. Neuroscience for the mental health clinician. *Psychological Medicine*.

**Robert McKallip, Ph.D.**

**Date of BIRCIWH Appointment – 11/10/02**

### **Grants**

- 2003- “The role of CD44 isoforms in immunotherapy of melanoma”  
NCI/NIH (K22) submitted for review, Oct 1, 2003. PI – McKallip
- 2003- “The effects of cannabinoid exposure on tumor growth and the anti-tumor immune response. Jeffress Memorial Trust, Submitted for review Sept 1, 2003.  
PI – McKallip
- 2003- “The effects of cannabinoid exposure on tumor growth and the anti-tumor immune response. Submitted to the Department of Pharm/Tox NIDA Small grants program. Submitted September, 2003. PI – McKallip
- 2004 “The effects of cannabinoid exposure on tumor growth and the anti-tumor immune response. NIDA/NIH. R21 To be submitted in Feb 2004. PI – McKallip

### **Awards**

- 2003-2004 “Targeting cannabinoid receptors as a novel treatment of breast cancer” January 2003. American Cancer Society (IRG-100036), 2003-2004. \$15,000.

2004                      The American Association of Immunologists Minority Scientist Travel Award.  
Supported travel to the AAI national meeting in Denver, Colorado.

### **Publications**

Mustafa, A., **McKallip, R.J.**, Fisher, M., Duncan, R., Nagarkatti, P.S., Nagarkatti, M. 2002. Regulation of IL-2-induced vascular leak syndrome by targeting CD44 using hyaluronic acid and anti-CD44 antibodies. *Journal of Immunotherapy* 25(6):476

**McKallip, R.J.**, Fisher, M., Szakal A., Nagarkatti, P.S., Nagarkatti, M. 2003. Targeted deletion of CD44v7 exon leads to decreased endothelial cell injury and vascular leak syndrome induced by IL-2 activated cytolytic lymphocytes. *The Journal of Biological Chemistry* 278(44):43818.

Yoonkyung, D., Rafi-Janajreh, A., **McKallip, R.J.**, Nagarkatti, P.S., Nagarkatti, M. 2003. Combined Deficiency of CD44 and Fas Leads to Early Onset and More Severe Form of Lymphoproliferative Disease. *International Immunology* 15(11): 1327.

Lombard, C., **McKallip, R.J.**, Nagarkatti, P.S., Nagarkatti, M. 2003. Fas ligand dependent and independent mechanisms of toxicity seen in lymphoid and non-lymphoid organs of tumor-bearing mice. *Clinical Immunology* 109(2):144.

**McKallip, R.J.**, Szakal, A., Nagarkatti, P.S., Nagarkatti, M. 2003. The Role of CD44 in SEB-induced Hepatitis: CD44 deficiency leads to reduced lymphocyte apoptosis resulting in increased liver damage. In preparation.

Do, Y., **McKallip, R.J.**, Nagarkatti, M., Nagarkatti, P.S., 2003. Ligation of cannabinoid CB1 and CB2 receptors on dendritic cells triggers apoptosis: novel role for endogenous and exogenous cannabinoids in immunoregulation. In preparation.

**McKallip, R.J.**, Nagarkatti, P.S., Nagarkatti, M. 2003. The Effects of Cannabinoid Exposure on Tumor Growth and the Anti-Tumor Immune Response. In preparation

**Paulina Essah, M.D.**

**Date of BIRCWH Appointment – 9/1/01**

### **Grants**

2003                      Recently submitted a R03 grant as principal investigator to the NICHD (deadline Oct.1st). Grant title: Combination metformin and oral contraceptive for PCOS. Amount: \$150,000

### **Awards**

2003                      Travel Grant Award for \$500 from the Endocrine Society to attend the Endocrine Society Annual Meeting in June 2003.

2003                      Invited to give an oral presentation at the Endocrine Society 2003 Annual Meeting: Title of presentation: “Reduced serum glycodelin and IGFBP-1 in women with polycystic ovary syndrome during first trimester of pregnancy”.

2003                      Accepted into the following graduate program at VCU: Master's of Science in Clinical Research and Biostatistics (advisor: Dr. Russell Boyle).

**Donna Miles, Ph.D.**

**Date of BIRCWH Appointment – 9/1/01**

**Grants**

2003 RO1 application - Title: Longitudinal Twin Study: Child Psychopathology-Adult SUD”, submitted to NIDA Oct. 1, 2003.

**Publications**

Miles DR, van den Bree MBM, & Pickens RW. (2002) Sex differences in shared genetic and environmental influences between conduct disorder symptoms and marijuana use in adolescents. *Neuropsychiatric Genetics*, 114 (2), 159-168.

Miles DR, Kulstad JL, & Haller DL. (2002) Severity of substance abuse and psychiatric problems among perinatal drug dependent women, *Journal of Psychoactive Drugs*, 34 (4), 339-346.

Haller DL, Miles DR & Dawson KS. (2002) Psychopathology influences treatment retention in drug dependent women, *Journal of Substance Abuse Treatment*, 23, 431-436.

Haller DL, Miles DR, & Dawson KS. (2003) Factors influencing treatment enrollment by pregnant substance abusers, *American Journal of Drug and Alcohol Abuse*, 29(1), 117-131.

Haller DL & Miles DR. (2003) Suicidal ideation among HIV-seropositive psychiatric patients: Role of psychiatric morbidity and quality of life, *AIDS and Behavior*, 7(2), 101-108.

Haller DL & Miles DR. (2003) Victimization and perpetration among perinatal substance abusers, *Journal of Interpersonal Violence*, 18 (7), 760-780.

Haller DL, & Miles DR. Drug dependent women: Psychopathology is associated with completion of residential treatment, *Journal of Addictive Diseases*, 23 (1), 17-28.

Haller DL, Miles DR, & Cropsey KL, Smoking stage of change is associated with retention in a smoke-free residential drug treatment program for women, *Addictive Behaviors*, in press.

**Charles Cook, Ph.D.**

**Date of BIRCWH Appointment – 11/10/02**

**Grants**

2003 – 2004 Currently working on RO1 grant. PI, Charles Cook, & William Dewey. \$175,000 Submit Feb 1, 2004 to NIDA. “Sex differences in chronic pain”.

**Publications**

**Cook CD**, Newman JL, Winfree JC and Beardsley PM (in press) Blockade of the psychomotor stimulant effects of the noncompetitive NMDA receptor antagonist MK801 by D2/3 receptor agonists.

**Cook CD** and Beardsley PM (2003) The modulatory actions of dopamine D2/3 agonists and antagonists on the locomotor activating effects of morphine and caffeine in mice. Pharmacology Biochemistry & Behavior, 75: 363-371.

Selley DE, Herbert, JT, Morgan D, **Cook CD**, Picker MJ and Sim-Selley LJ (2003) Effect of strain and sex on mu opioid receptor-mediated G-protein activation in rat brain. Brain Research Bulletin, 60: 201-208.

Terner JM, Barrett AC, **Cook CD** and Picker MJ (2003). Sex and strain differences in the antinociceptive effects of (-)-pentazocine: Comparison to morphine and spiradoline. Behavioural Pharmacology, 14: 77-85.

Ghorai S, **Cook CD**, Davis M, Venkataraman S, George C, Beardsley PM, Reith MEA and Dutta AK (2003) Hydroxy-piperidine analogues of GBR 12935 with high affinity for the dopamine transporter: Stereospecific interaction in vitro and in vivo. Journal of Medicinal Chemistry, 46: 1220-1228.

**Gayle Roux, Ph.D.**

**Date of BIRCWH Appointment – 9/1/01**

### **Grants**

2004            R21 in progress: Roux, G. & Wilson, D., “Self-Directed Interventions for Cancer Survivors”. Submitted to NCI for R21. \$250,000 Resubmitting in February.

2004            Wilson, D. & Roux, G., “Community-Based vs. Group Walking and Nutrition Interventions for African American Breast Cancer Survivors”. Submitted to Susan G. Komen Breast Cancer Foundation. \$250,000. Announcement April, 2004

### **Publications**

Nichols, M., & Roux, G. (In Press, 2004). Maternal perspectives on postpartum return to the workforce. *JOGNN*.

Sawin, K., Bellin, M., Roux, G., Buran, C., Brei, T., & Fastenau, P. (In Press, Dec. 2003). The experience of parenting an adolescent with Spina Bifida. *Journal of Rehabilitation Nursing*.

Roux, G., Lewis, K., Younger, J. & Dingley, C. (2003). Development and testing of the Inner Strength Questionnaire. *Journal of Cultural Diversity* 10(1), 4-5.

Roux, G. (2003). Culture & women’s health: Building inner strength in women (Editorial). *Journal of Cultural Diversity* 10(1), 3.

Dingley, C., & Roux, G. (2003). Inner Strength in older Hispanic women living with chronic illness. *Journal of Cultural Diversity* 10(1), 11-23.

Koob, P., Roux, G., & Bush, H. (2002). Inner strength in women dwelling in the world of multiple sclerosis. *International Journal of Human Caring*, 6(2), 21-28.

Roux, G., Anderson, C., & Roan, C. (2002). Postpartum depression, marital dysfunction, and infant outcome: A longitudinal study. *The Journal of Perinatal Education*, 11(4), 25-36.

Roux, G., Dingley, C., & Bush, H. (2002). Inner strength in women: Metasynthesis of qualitative findings in theory development. *Journal of Theory Construction & Testing*, 6(1), 4-15.

Rutherford, M., & Roux, G. (2002). Health beliefs and practices in rural El Salvador: An ethnographic study. *Journal of Cultural Diversity*, 9(1), 3-11.

Anderson, C., Roux, G. & Pruitt, A. (2002). Prenatal depression, violence, substance use, and perception of support in pregnant middle-class women. *Journal of Perinatal Education* 11(1), 14-21.

### **International Conference Presentations**

Roux, G., Dingley, C., & Lewis, K. "Inner Strength in Women with Chronic Health Conditions: Instrument Development." Research paper to be presented at the Scientific Sessions of the Sigma Theta Tau International Biennial Convention, Toronto, Ontario, Canada, November 3, 2003.

Roux, G., Dingley, C. & Lewis, K. "Integration of Inquiries: Qualitative Findings for Theory and Instrument Development." Research paper presented at the Fourth International Advances in Qualitative Methods Research Conference, Banff, Alberta, Canada, May 2-5, 2003.

Roux, G., Dingley, C. & Bush, H. "Inner Strength in Women: A Qualitative Metasynthesis for Theory Development." Research paper presented at the Eighth Annual International Qualitative Health Research Conference, Banff, Alberta, Canada, April 4-6, 2002.

Roux, G. & Bawel, K. "Health Behaviors and Strengths in Incarcerated Females." Research paper presented at the Eighth Annual International Qualitative Health Research Conference, Banff, Alberta, Canada, April 4-6, 2002.

Roux, G. & Bawel, K. "Health Practices in Incarcerated Females: An Ethnographic Study." Research paper presented at the Scientific Sessions of the Sigma Theta Tau International Biennial Convention, Indianapolis, IN, November 11, 2001.

**Maria Iuorno, M.D.**

**Date of BIRCWH Appointment – 11/10/02**

### **Grants**

2003-2005 "Coupling of D-chiro-inositol to insulin in polycystic ovary syndrome"  
Principal Investigator: Maria J. Iuorno, M.D., Agency: NIH/NICHD - Type:  
R03 HD44455-01, Direct Costs: \$100,000 Period: 7/1/03-6/30/05

### **Awards**

2002-2003 NIH Medical Scientist Training Program; Phi Beta Kappa Honor Society member, American Diabetes Association Sandra Tate Russell Memorial Research Award, 9/99, Outstanding Teacher Awards for M-2 Endocrine Course 2002 and for M3 Medicine Clerkship.

### **Publications**

**Iuorno, M.J.**, Nestler, J.E.: Insulin lowering drugs in polycystic ovary syndrome. Infertility and Reproductive Medicine Clinics of North America. Volume 14:4, pp639-654, 2003.

**Iuorno, M.J.**, Jakubowicz, D.J., Dillon, P., Gunn, R.D., Allan, G., Nestler, J.E.: Effects of D-chiro-inositol on serum androgens and ovulation in lean women with the polycystic ovary syndrome. Endocrine Practice (in press), 2003

Jakubowicz, D.J., **Iuorno, M.J.**, Jakubowicz, S., Roberts, K.A., Nestler, J.E.: Effects of metformin on early pregnancy loss in the polycystic ovary syndrome. J Clin Endocrinol Metab 87: 524-529, 2002.

Peppard, H.R., Marfori, J., **Iuorno, M.J.**, Nestler, J.E.: Prevalence of polycystic ovary syndrome among premenopausal women with type 2 diabetes. Diabetes Care 24: 1050-1052, 2001

### **Reviews and Book Chapters**

Diamanti-Kandarakis, E., Baillargeon, J.P., **Iuorno, M.J.**, Jakubowicz, D.J., Nestler, J.E. A modern medical quandary: Polycystic ovary syndrome, insulin resistance, and oral contraceptive pills. J Clin End Metab 88: 1027-1932. 2003.

**Iuorno, M.J.**, Baillargeon, J.P., Nestler, J.E.: Primary Care for Women, Chapter: "Polycystic Ovary Syndrome", Edited by Phyllis C. Leppert, 2<sup>nd</sup> Edition, Lippincott Williams and Wilkins, Philadelphia, (in press), 2002.

Pierce, J.G., **Iuorno, M.J.**: Diabetes for the Women's Health Care Practitioner. Female Patient (in press), 2002.

Baillargeon, J.P., **Iuorno, M.J.**, Nestler, J.E.: Comparison of metformin and thiazolidinediones in the management of polycystic ovary syndrome. Curr Opin Endocrinol Diabetes 9: 303-311, 2002.

### **Martha Wunsch, M.D.**

As stated in your message to Cora Lee, Dr. Martha Wunsch, who was appointed a scholar position effective 9/15/01, has moved on to another position at Virginia Tech. She resigned her scholar position on July 1, 2002.