

# **WENDY B. SHELLY, M.D.**

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## **EDUCATION AND TRAINING:**

### **Undergraduate:**

Pennsylvania State University, State College, Pennsylvania  
Bachelor of Science, Biology, May 1997  
University Scholars Program, merit based scholarship, August 1993-May 1997

### **Graduate:**

Milton S Hershey Medical Center, Pennsylvania State University, Hershey,  
Pennsylvania  
Doctor of Medicine, May 2001

### **Postgraduate:**

University of Virginia Health System, Charlottesville, Virginia  
Internship and Residency, Department of Obstetrics and Gynecology, July 2001-  
June 2005

University of California San Francisco, San Francisco, California  
Fellowship, Reproductive Endocrinology and Infertility, July 2005 – June 2008

## **LEADERSHIP ACTIVITIES:**

Administrative Chief Resident, July 2004-June 2005  
Chair, Annual Resident Retreat Committee, 2002-2004  
Department Representative, District IV ACOG Junior Fellows, 2002-2005

## **RESEARCH EXPERIENCE:**

### **Research in Progress:**

Shelly WB, Cedars MI, Mellon SH “Role of Oxidative Stress in Ovarian Aging,”  
June 2006 – present.

Fujimoto VF, Shelly WB “Impact of Oxidative Stress on Embryo Quality,”  
March 2007 - present.

Wolkowitz O, Mellon SH, Burke H, Closshey WB “Serum BDNF as a Predictor  
of Antidepressant Response to Escitalopram,” July 2004 – present.

Wolkowitz O, Mellon SH, Burke H, Closshey WB “ The Neurobiology of Stress  
and Depression,” Jan 2005 – present.

### **Extramural Funding:**

Howard Hughes Summer Research Associate, Pennsylvania State University. Linked the immune function of FAD-glucose dehydrogenase to gene expression in *D. melanogaster*. Faculty advisor Diana Cox-Foster. May 1995-August 1995.

Grant Recipient, Pennsylvania State University. Wrote and received grant from PSU Electron Microscope Lab to train on microscope and incorporate technique into research project. August 1994-August 1995.

WISER Intern, Pennsylvania State University. Investigated the role of FAD-glucose dehydrogenase gene in the encapsulation response of insects. Funded by Women in Science and Engineering Research NASA Space Grant. Faculty advisor Diana Cox-Foster. February 1994-May 1995.

### **Oral presentations/Poster presentations/Abstracts/Awards:**

Shelly WB, Browne RW, Bloom MS, Huddleston HG, Sandler JR, Fujimoto VY. "Alpha-tocopherol is a predictor of human embryo fragmentation but not independent of high-density lipoprotein(HDL)." Oral Presentation, Annual Meeting of the American Society for Reproductive Medicine 2008.

Shelly WB, Browne RW, Bloom MS, Huddleston HG, Sandler JR, Fujimoto VY. "Antioxidant enzymes glutathione peroxidase and glutathione reductase correlate with human embryo cell number." Oral Presentation, Annual Meeting of the American Society for Reproductive Medicine 2008.

Shelly WB, Bloom MS, Sandler JR, Fujimoto VY, Mellon SH, Cedars MI. "Follicular fluid brain-derived neurotrophic factor (BDNF) concentrations higher in women with diminished ovarian reserve." Poster Presentation, Annual Meeting of the American Society for Reproductive Medicine 2008.

Shelly WB, Browne RW, Bloom MS, Huddleston HG, Sandler JR, Fujimoto VY. "Beta-carotene levels in follicular fluid correlate with successful *in vitro* fertilization of human oocytes." Poster Presentation, Annual Meeting of the Society for Gynecologic Investigation 2008.

Holland C, Fisher M, Merzenich M, Closshey WB, Mellon SH, Wolkowitz OM, Vinogradov S. "Increases in serum BDNF are correlated with response to neuroplasticity-based cognitive training in patients with schizophrenia." Presentation, Conference of the Cognitive Neuroscience Society 2008.

Closshey WB, Browne RW, Huddleston HG, Sandler JR, Fujimoto VY. "High activity of Paraoxonase 3 (PON3), a known potent antioxidant, identified in follicular fluid." Poster Presentation, Annual Meeting of the American Society for Reproductive Medicine 2007.

Closshey WB, Shen S, Rosen M, Cedars MI, Fujimoto VF, Rinaudo PF. "IVF vs ICSI in cases of low egg number and normal semen parameters." Oral Presentation, Annual Meeting of the American Society for Reproductive

Medicine 2006.

Wolkowitz OM, Mellon SH, Wolf J, Lerner GK, Rios M, Closshey WB, Reus VI. “Serum BDNF levels during antidepressant treatments predict response.” 2006 ISPNE Annual Meeting, Leiden, The Netherlands.

Closshey WB, Cox-Foster DL. “Linking the immune function of FAD-glucose dehydrogenase to gene expression in hemocytes of *D. melanogaster*.” Fifth Annual Undergraduate Research Fair, Pennsylvania State University, April 1996. Research Fair Winner.

Closshey WB, Cox-Foster DL. “Insect Immune Defenses: Insights into Combating Disease.” Student Competition for Presidents Prize, ESA National Meeting, December 1995. Honorable mention.

Closshey WB, Cox-Foster DL. “Insect Immune Defenses: Insights into Combating Disease.” Fourth Annual Undergraduate Research Fair, Pennsylvania State University, April 1995. Research Fair Winner.

Closshey WB, Cox-Foster DL. “Insect Immune Defenses: Insights into Combating Disease.” First Annual Research Exhibition, Pennsylvania State University AgSci Department, March 1995. First place Winner.

Closshey WB, Cox-Foster DL. “FAD-glucose dehydrogenase: Essential role in encapsulation of fungal invaders.” Keystone Symposium on Molecular and Cellular Biology, Pennsylvania State University, March 1995.

Closshey WB, Cox-Foster DL. “FAD-glucose dehydrogenase: Role and biochemistry of an “escape artist” enzyme in insect molting and cellular immune defense against pathogens.” Penn State Summer Molecular Biology Symposium, Pennsylvania State University, July 1994.

### **Publications:**

Browne RW, Shelly WB, Bloom MS, Ocque AJ, Sandler JR, Huddleston HG, Fujimoto VY. “Distributions of High Density Lipoprotein Particle Components in Human Follicular Fluid and Sera and their Associations with Embryo Morphology Parameters during *In vitro* Fertilization.” Human Reproduction, accepted for publication.

Shelly WB, Draper MW, Krishnan V, Wong M, Jaffe RB. “Selective estrogen receptor modulators: an update on recent clinical findings.” Obstetrical & Gynecological Survey 63(3):163-81, 2008.

Smith LP, Williams CD, Doyle JO, Closshey WB, Brix WK, Pastore LM “Effect of endometrioma cyst fluid exposure on peritoneal adhesion formation in a rabbit model.” *Fertility and Sterility*.87(5):1173, 2007.

Closshey WB, Cedars MI. “Intrauterine Adhesions” in Up To Date, April 2006.

Closshey WB. “Menopause,” “Teratogenicity,” “Preventative Care,” in *Obstetrics & Gynecology Recall 2<sup>nd</sup> Edition*, Bourgeois FJ (Ed.), 2005.

Cox-Foster DL, Stehr JE, Closshey WB, Pieffer M, Zheng S. FAD-glucose dehydrogenase: Essential Role in Encapsulation of Fungal Invaders in Insects. *Journal of Cellular Biochemistry*. S21A: 206, December 1995.

#### **AWARDS:**

Outstanding Resident Teaching Award for Exceptional Achievements in Resident Education, University of California San Francisco, Department of Obstetrics, Gynecology and Reproductive Sciences, June 2006.

Resident Teaching Award for Best Medical Student Teaching, University of Virginia Health System, Department of Obstetrics and Gynecology, May 2004.

Award for Excellence in Obstetrics and Gynecology, Milton S Hershey Medical Center, Pennsylvania State University, May 2001.

#### **TEACHING EXPERIENCE:**

Closshey WB. “Amenorrhea,” University of Virginia Health System Department of Obstetrics and Gynecology Resident Didactic Series, given annually.

Closshey WB. “PCOS,” University of Virginia Health System Department of Obstetrics and Gynecology Resident Didactic Series, given annually.

Closshey WB. “Extended Cycle Contraception,” University of Virginia Health System Department of Obstetrics and Gynecology Weekly Resident Didactic Series, given annually.

Pennsylvania State University College of Medicine, May – August 1998, paid medical student peer tutor.

#### **CERTIFICATION:**

United States Medical Licensing Exam, Completion of Step 1,2,3  
Diplomate, American Board of Obstetrics and Gynecology