

## Curriculum Vitae

**Name:** Mandy J. (Bell) Schmella

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## Education and Training

### **Undergraduate**

2001-2005

University of Pittsburgh  
Pittsburgh, PA

BSN  
Nursing  
Summa cum Laude

### **Graduate**

2007-2012

University of Pittsburgh  
Pittsburgh, PA

PhD  
Nursing with Minor in  
Healthcare Genetics

2009

Summer Genetics Institute  
National Institute of Nursing  
Research; Georgetown University  
Bethesda, MD

Certificate

### **Postgraduate**

2012-2015

University of Pittsburgh  
Magee-Womens Research Institute  
School of Nursing  
Pittsburgh, PA

Postdoctoral Scholar  
F32NR014622 (NINR)  
T32NR009759 (NINR)

## Appointments and Positions

### **Academic**

2015-present

University of Pittsburgh  
School of Nursing  
Health Promotion and Development

Assistant Professor

	Pittsburgh, PA	
2013-2015	Magee-Womens Research Institute University of Pittsburgh School of Medicine Obstetrics, Gynecology, & Reproductive Sciences Pittsburgh, PA	Postdoctoral Scholar F32NR014622
2012-2013	University of Pittsburgh School of Nursing Pittsburgh, PA	Postdoctoral Scholar T32NR009759
2007-2012	University of Pittsburgh School of Nursing Dr. Yvette Conley's Molecular Genetics Laboratory Pittsburgh, PA	Graduate Student Researcher
2007-2012	University of Pittsburgh School of Nursing Pittsburgh, PA	Predocctoral Scholar T32NR009759 F31NR011379
<b>Non-Academic</b>		
2005-2007	Penn State Milton S. Hershey Medical Center Hershey, PA	Staff Nurse Women's Health Unit
5/2004-8/2004	Lewistown Hospital Lewistown, PA	Nurse Extern Emergency Department
5/2003-8/2003	Lewistown Hospital Lewistown, PA	Nurse Extern Medical-Surgical; Pediatrics
5/2002-8/2002	Ohesson Manor Lewistown, PA	Certified Nurse Aide Alzheimer's Unit

**Licensure and Certification**

Initial License Date: 7/27/2005      RN563961      Pennsylvania  
 Expiration Date: 10/31/2018

3/6/2017      American Heart Association      BLS Provider (CPR & AED)

**Membership in Professional and Scientific Societies**

2012-present	The American Society for Human Genetics
2008-present 2015	Association of Women’s Health, Obstetrics, and Neonatal Nurses Pennsylvania State Conference Planning Committee Member
2008-present 2018 2017 2017	International Society of Nurses in Genetics ISONG Congress Planning Committee Member ISONG Congress Planning Committee Member ISONG Congress Research Abstract Reviewer/ Congress Moderator
2004-present 2011-2013 2014, 2017-present	Sigma Theta Tau International Honor Society of Nursing Co-chair of Scholar’s Night (Eta Chapter) Research Award Grant Review Committee Member
2012-present	The Society for Gynecologic Investigation

**Honors**

2014	International Society for the Study of Hypertension in Pregnancy Travel Award (XIX World Congress in New Orleans, LA)
2013-2015	Postdoctoral Scholar, Ruth F. Kirschstein National Research Service Award (F32NR014622)
2012-2013	Postdoctoral Scholar, “Targeted Research and Academic Training of Nurses in Genomics” (T32NR009759)
2009-2012	Predocctoral Scholar, Ruth F. Kirschstein National Research Service Award (F31NR011379)
2007-2009	Predocctoral Scholar, “Targeted Research and Academic Training of Nurses in Genomics” (T32NR009759)
2005	University of Pittsburgh School of Nursing Keeper of the Light (given to the graduating student nurse with the highest academic standing in his/her class)
2005	Summa cum Laude, University of Pittsburgh
2003	Ann M. J. Reed Memorial Scholarship

**Publications**

**Refereed Articles** \* = Data Based

1. **Bell, M. J.** (2010). A historical overview of preeclampsia-eclampsia. *Journal of Obstetric, Gynecologic, and Neonatal Nursing*, 39(5), 510-518. doi: 10.1111/j.1552-6909.2010.01172.x. PMID: PMC2951301.

2. Baumgartel K., Zelazny, J., Timcheck, T., Snyder, C., **Bell, M.**, & Conley, Y. P. (2011). Molecular research designs. *Annual Review of Nursing Research*, 29, 1-26. PMID: PMC3422781. (\*note: all first authors)
3. **Bell, M. J.**, & Conley, Y. P. (2013). A systematic review of endoglin gene expression in preeclampsia. *Biological Research for Nursing*, 15(2), 129-136. Epub ahead of print on September 15, 2011. doi: 10.1177/1099800411420133. PMID: PMC3746550.
4. \***Bell, M. J.**, Roberts, J. M., Founds, S. A., Jeyabalan, A., Terhorst, L., & Conley, Y. P. (2013). Variation in endoglin pathway genes is associated with preeclampsia: A case-control candidate gene association study. *BMC Pregnancy & Childbirth*, 13, 82. doi: 10.1186/1471-2393-13-82. PMID: PMC3651360.
5. \***Bell, M. J.**, Terhorst, L., & Bender, C. M. (2013). Psychometric analysis of the Patient Assessment of Own Functioning Inventory in women with breast cancer. *Journal of Nursing Measurement*, 21(2), 320-334. PMID: PMC4011069.
6. Roberts, J. M., & **Bell, M. J.** (2013). If we know so much about preeclampsia, why haven't we cured the disease? *Journal of Reproductive Immunology*, 99(1-2), 1-9. doi: 10.1016/j.jri.2013.05.003. PMID: PMC4066309.
7. \***Schmella, M. J.**, Ferrell, R. E., Gallaher, M. J., Lykins, D. R., Althouse, A. D., Roberts, J. M., & Hubel, C. A. (2015). The -93T/G *LPL* promoter polymorphism is associated with lower third-trimester plasma triglycerides in pregnant African American women. *Biological Research for Nursing*, 14(4), 429-437. doi: 10.1177/1099800414561475. PMID: PMC4474765.
8. \***Schmella, M. J.**, Clifton, R. G., Althouse, A. D., & Roberts, J. M. (2015). Uric acid determination in gestational hypertension: Is it as effective a delineator of risk as proteinuria in high risk women? *Reproductive Sciences*, 22(10), 1212-1219. doi: 10.1177/1933719115572477.
9. Dorman, J. S., **Schmella, M. J.**, & Wesmiller, S. W. (2017). Primer in genetics and genomics, article 1: DNA, genes, and chromosomes. *Biologic Research for Nursing*, 19(1), 7-17. doi: 10.1177/1099800416678321.
10. Anderson, C. M., & **Schmella, M. J.** (2017). CE: Preeclampsia: Current approaches to nursing management. *The American Journal of Nursing*, 117(11), 30-38. doi: 10.1097/01.NAJ.0000526722.26893.b5. (\*note: both authors contributed equally to article)
11. \***Schmella, M. J.**, Roberts, J. M., Conley, Y. P., Ren, D., Storvold, G. L., Ingles, S. A., Wilson, M. L., Staff A. C., & Hubel, C. A. (2017). Endoglin pathway genetic variation in preeclampsia: A validation study in Norwegian and Latina cohorts. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health*. (in press, available online November 15, 2017, <http://www.sciencedirect.com/science/article/pii/S2210778917300570?via%3Dihub>).
12. Demirci, J., \***Schmella, M. J.**, Glasser, M., Bodnar, L., & Himes, K. Delayed lactogenesis II and potential utility of antenatal milk expression in women developing late-onset preeclampsia: A case series. *BMC Pregnancy and Childbirth* (under review).

#### Published Abstracts

1. \***Schmella, M. J.**, Roberts, J. M., Althouse, A. D., & Hubel, C. A. (2015). Evaluation of the association between maternal endoglin genetic variation and circulating soluble endoglin concentrations in women with and without preeclampsia. [Abstract]. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health* [Abstracts of the XIXth World Congress for the Study of Hypertension in

*Pregnancy Preeclampsia/Hypertension- Future Risks and Novel Therapies*, 5(1), 14.  
doi: 10.1016/j.preghy.2014.10.033.

### **Research**

#### **ACTIVE:**

##### **Principal Investigator**

Eunice Kennedy Shriver National Institute of Child Health & Human Development (NICHD)  
R21HD092770

*DNA Methyloomic Profiling of Preeclampsia Across Pregnancy*

September 1, 2017-August 31, 2019/ 25% effort

\$275,000 (total direct costs)

CRE Pilot/Feasibility Study Program

*DNA Methyloomic Profiling Before and After Onset of Clinically Overt, Preterm Preeclampsia*

April 1, 2017-March 31, 2018/ 20% contributed effort

\$15,000

**COMPLETED:** The completed grants below were supplements to my NIH training grants listed under the section titled “Educational or Training Grants”

##### **Principal Investigator**

Sigma Theta Tau International Honor Society of Nursing, Eta Chapter

*Genomics of Endoglin Pathway in Preeclampsia (GEPP)*

2010-2012

\$1,250

International Society of Nurses in Genetics

*Genomics of Endoglin Pathway in Preeclampsia (GEPP)*

2011

\$1,500

Sigma Theta Tau International Honor Society of Nursing, Eta Chapter

*Mechanisms Modulating the Association between the Endoglin Pathway and Preeclampsia*

2013-2014 (one year, no cost extension granted)

\$2,500

Preeclampsia Foundation Vision Grant

*Mechanisms Modulating the Association between the Endoglin Pathway and Preeclampsia*

January 2014-December 2014 (one year, no cost extension granted)

\$25,000

### **Other Scholarly Activities**

#### **Educational or Training Grants**

National Institute of Nursing Research (T32NR009759)

*Targeted Research and Academic Training of Nurses in Genomics*

2007-2009

National Institute of Nursing Research (F31NR011379)  
*Genomics of Endoglin Pathway in Preeclampsia (GEPP)*  
2009-2012

National Institute of Nursing Research (T32NR009759)  
*Targeted Research and Academic Training of Nurses in Genomics*  
2012-2013

National Institute of Nursing Research (F32NR014622)  
*Mechanisms Modulating the Association between the ENG Pathway and Preeclampsia*  
2013-2015

### **Grant Reviewer**

2014, 2017-present   Sigma Theta Tau International Honor Society of Nursing, Eta Chapter

### **Manuscript Reviewer**

2013, 2017   Biologic Research for Nursing  
2014        BMC Pregnancy & Childbirth  
2013        Hypertension  
2015        Hypertension in Pregnancy  
2015        Journal of Women's Health  
2014        Placenta

### **Unpublished Presentations** **(International; National; Regional; Local)**

#### **International**

1. **Bell, M.**, Deslouches, S., Roberts, J., & Conley, Y. (2011, October). *Small-volume umbilical cord serum aliquots: A viable option for DNA extraction*. Poster presentation at the 24<sup>th</sup> Annual International Society of Nurses in Genetics Conference, Montreal, Canada.
2. **Bell, M. J.**, Roberts, J. M., Founds, S. A., Jeyabalan, A., Terhorst, L., & Conley, Y. P. (2012, November). *Preeclampsia is associated with variation in endoglin pathway genes*. Poster presentation at the American Society of Human Genetics Annual Meeting, San Francisco, CA.
3. **Bell, M. J.**, Roberts, J. M., Founds, S. A., Jeyabalan, A., Hubel, C. A., Terhorst, L., & Conley, Y. P. (2013, March). *Variation in endoglin pathway genes is associated with preeclampsia*. Poster presentation at the Society for Gynecologic Investigation 60<sup>th</sup> Annual Meeting, Orlando, FL.
4. **Bell, M. J.** (2013, June). *The endoglin pathway in preeclampsia: Genomics and beyond*. Podium presentation at Tox Tox 13, Mill Valley, CA. (Invited)
5. Lucero, J., Wilhelmsen, K., Tran, A., **Bell, M.**, Fisher, S., & Hellman, J. (2014, May). *IL-8 production in lung endothelial cells after exposure to preeclamptic plasma*. Poster presentation at the 2014 Society for Obstetric Anesthesia and Perinatology Annual Meeting, Toronto, Canada.
6. **Schmella, M. J.**, Roberts, J. M., Althouse, A. D., & Hubel, C. A. (2014, October). *Evaluation of the association between maternal endoglin genetic variation and*

- circulating soluble endoglin concentrations in women with and without preeclampsia.* Podium presentation at the International Society for the Study of Hypertension in Pregnancy (ISSHP) XIX World Congress, New Orleans, LA.
7. **Schmella, M. J.**, Roberts, J. M., Conley, Y. P., Ren, D., Storvold, G., Ingles, S., Wilson, M., Staff, A. C., & Hubel, C. A. (2016, August). *Endoglin pathway genetic variation in preeclampsia: A replication study in Norwegian and Latina cohorts.* Podium presentation at the International Society of Nurses in Genetics World Congress, Dublin, Ireland.
  8. Wesmiller, S., **Schmella, M.**, & Dorman, J. (2016, August). *Using the scholarship of teaching and learning approach to re-design a human genetics and genomics course for undergraduate nursing students.* Poster presentation at the International Society of Nurses in Genetics World Congress, Dublin, Ireland.
  9. Rietze, A., Conley, Y., Hubel, C., Jeyabalan, A., Roberts, J., & **Schmella, M.** (2017, November). *Blood-based DNA methylation levels of endoglin pathway candidate genes: Do they differ in women with and without clinically-overt preeclampsia?* Oral presentation at the International Society of Nurses in Genetics World Congress, Reston, Virginia.

### National

1. **Bell, M.**, & Conley, Y. (2009, July). *Genomics of endoglin pathway in preeclampsia.* Poster presentation at the National Institute of Nursing Research Summer Genetics Institute Graduation Ceremony, Bethesda, MD.
2. **Bell, M.**, & Conley, Y. (2009, October). *Genomics of endoglin pathway in preeclampsia.* Poster presentation at the Council for the Advancement of Nursing Science 2009 Special Topics Conference: Technology, Genetics, and Beyond: Research Methodologies of the Future, Washington, DC.
3. **Bell, M.**, & Conley, Y. (2010, September). *Genomics of endoglin pathway in preeclampsia.* Poster presentation at the National Institute of Nursing Research 25<sup>th</sup> Anniversary Scientific Symposium: Bringing Science to Life, Washington, DC.

### Local

1. **Bell, M.**, & Conley, Y. (2009, February). *Genomics of endoglin pathway in preeclampsia.* Poster presentation at the 10<sup>th</sup> Annual Research and Clinical Poster Session of Eta Chapter of Sigma Theta Tau International, Pittsburgh, PA.
2. **Bell, M.**, & Conley, Y. (2009, June). *Genomics of endoglin pathway in preeclampsia.* Poster presentation at the 1st Annual PhD Research Poster Event: The Road Less Traveled: Becoming a Nurse Researcher, University of Pittsburgh, Pittsburgh, PA.
3. **Bell, M.**, & Conley, Y. (2010, June). *Genomics of endoglin pathway in preeclampsia.* Poster presentation at the 2<sup>nd</sup> Annual PhD Research Poster Event: Developing a Research Career: An Opportunity Awaits You, University of Pittsburgh, Pittsburgh, PA.
4. **Schmella, M. J.** (2014, March). *Anti-angiogenic factors and preeclampsia: Examining endoglin's role in preeclampsia pathophysiology.* Podium presentation at the Research Seminar in Reproductive, Perinatal, and Pediatric Epidemiology, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA. (Invited)

### Other Presentations

1. Dorman J., **Schmella, M.**, & Wesmiller, S. (2016, November). *Precision medicine: Incorporation of genetics and genomics into nursing practice*. University of Pittsburgh School of Nursing Continuing Education Activity (3 contact hours awarded) presented at the University of Pittsburgh, Pittsburgh, PA. [Note: The CEU activity is now available as an online learning activity through the University of Pittsburgh School of Nursing).

### Teaching

#### Primary Teacher

Term / Years	Course Number & Title	No. of Students	Level	Didactic or Clinical
Spring 2016	NUR1680: Introduction to Genetics and Molecular Therapeutics	82	Sophomores & Seniors	Didactic (co-taught with Jan Dorman)
Fall 2016	NUR1680: Introduction to Genetics and Molecular Therapeutics	52	Sophomores & Seniors	Didactic
Spring 2017	NUR1680: Introduction to Genetics and Molecular Therapeutics	45	Sophomores & Seniors	Didactic
Fall 2017	NUR1061 (Independent Study): Dissemination of Research Results	1	Senior	Independent Study
Spring 2018	NUR1680: Introduction to Genetics and Molecular Therapeutics	84	Sophomore	Didactic

#### Lecturer / Guest Lecturer

Term/ Years	Course Number & Title	Level	Topic of Lecture
Spring 2012	PT2045: Survey of Human Disease 2	Graduate	Genetics in Human Disease
Summer 2013	University of Pittsburgh Health Careers Scholars Academy	High School	Genetics in Human Disease
Fall 2017	NUR1680: Introduction to Genetics and Molecular Therapeutics	Undergraduate	Genetic Testing
Fall 2017	NUR1680: Introduction to Genetics and Molecular Therapeutics	Undergraduate	Quantitative Genetics

#### BSN-Honors Theses

Allison Rietze, “*Blood-based DNA methylation levels of endoglin pathway candidate genes: Do they differ in women with and without clinically-overt preeclampsia?*” Chair, 2015-present. [Ms. Rietze is scheduled to defend her thesis in the Spring of 2018].

#### Other Mentoring Activities

University of Pittsburgh School of Nursing Undergraduate Research Mentoring Program (URMP)

Emily Williams, faculty mentor, 2015



Jaqueline Lee, faculty mentor, 2016-present

**Service**

**School Committees**

BSN Council

member, 2015-present

Faculty Staff and Welfare Committee

member, 2016-present

co-chair, 2017-present

**Other Professional Activities**

1. 2015 Invited speaker for Dr. Mary Korytkowski's "Introduction to Being a Physician" course for 1<sup>st</sup> year University of Pittsburgh Medical students (asked to discuss management of my Type 1 diabetes)
2. 2015 Research Participant: DIADIC study (Diabetes Across Development in Couples)
3. 2016 Curriculum Development (genetics component of a nursing prep Program): Narabayev University in Kazakshstan
4. 2016 Participation in the *Under Pressure: The Hidden Story of Pregnancy and Preeclampsia* documentary by Kristine Weatherston from Temple University
5. 2017 Curriculum Development (online version of NUR1680: Introduction to Genetics and Molecular Therapeutics for the Online RN-Options program at the University of Pittsburgh)
6. 2017 Team Leader for 5<sup>th</sup> Annual Pittsburgh Promise Walk for Preeclampsia (Magee-Womens Research Institute Investigators and Friends)