**Kelley Baumgartel, PhD, FAAN**

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**Performance-driven and focused clinical research professional with 15+ years of experience designing, conducting, and analyzing clinical trials and research studies for the advancement of academic and public health. Skilled in driving initiatives related to organizational development, education, and research to enhance human health, professional development, and overall organizational effectiveness. Excel in designing and developing course content based on the curriculum and program requirements. Well-versed in academic writing, proposal design, scientific writing, public speaking, management, and regulatory oversight.**

**Core Competencies**

Research & Analysis **|** Strategic Planning & Implementation **|** Curriculum Development **|** Organizational Development **|** Healthcare Management **|** Grants Administration **|** Literature Review **|** Medical Writing **|** Regulatory Oversight **|** Team Building & Leadership **|** Public Speaking **|** Data Gathering & Analysis **|** Project Management **|** Staff Training & Development **|** Start-up Design & Execution **|** Community Outreach **|** Medical Research

**Education and Credentials**

**University of Pittsburgh School of Medicine,** Pittsburgh, PA  
Postdoctoral Scholar, 2018 | Mentor: Michael Morowitz, MD

**University of Pittsburgh School of Nursing,** Pittsburgh, PA  
PhD (Nursing), Minor: Healthcare Genetics, 2017 | Mentor: Yvette Conley, PhD

**University of Pennsylvania School of Nursing, Philadelphia, PA**Bachelor of Science in Nursing, French (certificate), 2006

**National Institutes of Health, Bethesda MD**Fellow, Summer Genetics Institute, 2011

**Accomplishments**

* Recently accepted as a fellow into the American Academy of Nursing for demonstrating solid work to minimize health disparities and dedication to ensuring access to donor milk.
* Named a 40 under 40 recipient in Pittsburgh due to solid leadership in the region in the area of research, access, and advocacy.
* Spearheaded and completed complex projects and programs, such as Community Health Advisor to Pierre Gooding, Western Pennsylvania Hospital Breastfeeding Initiation Project, and Obstetrics Clinic Flu Vaccine Program within a set time, budget, and specifications.

**Professional Experience**

University of South Florida – College of Nursing, Tampa, FL

**Assistant Professor,** Jan 2021 to Present

**Conduct and publish interdisciplinary scholarly research in, actively seeking external funding and collaborating with colleagues on research projects.** **Design and deliver engaging and innovative courses across campus with a keen focus on contributing to the academic development and success of students.**

* Provided mentorship and advisement to students, fostering their academic and professional development.
* Cultivated productive relationships with students by using strong interpersonal and communication skills.

Human Milk Science Institute and Biobank, Pittsburgh, PA

**President and Co-Founder,** Nov 2018 to Jan 2023

**Delivered strategic direction and leadership in the development and execution of the institute's mission and objectives. Coordinated with the board of directors, stakeholders, and partners to drive the organization's growth and impact. Devised, implemented, and maintained quality control processes for the biobank's operations.**

* Recognized for managing the operations of the biobank, ensuring the collection, storage, and distribution of human milk samples comply with ethical and regulatory standards.
* **Nurtured collaborations with academic institutions, industry partners, and other relevant stakeholders.**
* **Communicated research outcomes through various channels to contribute to public health knowledge.**

Duquesne University – School of Nursing, Pittsburgh, PA

**Assistant Professor,** Aug 2018 to Dec 2020

**Collaborated with colleagues on research projects, curriculum development, and other initiatives to enhance the School's academic programs.** **Established and maintained an active program of research for contributing to the advancement of nursing knowledge and participating in scholarly activities.**

* **Engaged in service activities at the departmental, school, and university levels, contributing to the academic and professional community.**
* Developed comprehensive lesson plans, assignments, and opportunities for practical use of education.

***Clinical Experience as a Neonatal Intensive Care Clinical Nurse II at West Penn Hospital Neonatal Intensive Care Unit and as a Pediatric Intensive Care Nurse at UPMC Children’s Hospital***

**Publications**

* 1. **Baumgartel, K.**, Saint Fleur, A., Prescott, S., Fanfan, D., Elliott, A., Yoo, J., Harrington, M., Koerner, R., Ozorio-Dutra, S., Duffy. A., Groer, M.W. Social Determinants of Health Among Pregnant Hispanic Women and Associated Psychological Outcomes. Journal of Racial and Ethnic Disparities (in press), 2023
  2. **Baumgartel, K.**, Stevens, M., Prescott, S., Saint-Fleur, A., & Groer, M.W. The Human Milk Metabolome: A Scoping Literature Review. Journal of Human Lactation. May 39(2):255-277, 2023
  3. Surendra, S., Wira, C., Prescott, S., Mutka, T., **Baumgartel, K.**, Yoo, J., Morgan, H., Postola, T., Seyfang, A., Gostner, J., Fusch, D., Kim, K, Groer, M. Tryptophan Metabolism/Immune Alterations in Pregnant Hispanic Women with Chronic Toxoplasma Gondii Infection. American Journal of Reproductive Immunology (Accepted), 2023
  4. **Baumgartel, K.**, Caplan, E., Glover, C., Louis, J. Schrieber, J. A Feasibility Study to Assess Sleep and Subsequent Breast Milk Volume Among Mothers with Hospitalized Infants. Journal of Perinatal and Neonatal Nursing, 2022
  5. Prescott, S., Dreisbach, C., **Baumgartel, K.**, Koerner, R., Gyamfi, A., Canellas, M., St. Fleur, A., Henderson, W., & Trinchieri, G. Impact of Intrapartum Antibiotic Prophylsaxis on Offspring Microbiota. Fron, Pediatri.10(9), 2021
  6. Spatz D.L., **Baumgartel, K.** Not All Donor Milk is Equal: Impact of Processing Methods on Bioactive Compounds. Neonatal Intensive Care. 34(3):42-45, 2021
  7. Davis J, **Baumgartel, K**., Morowitz M, Giangrangrasso V, Demirci J. The Role of Human Milk in Decreasing Necrotizing Enterocolitis Through Modulation of the Infant Gut Microbiome: A Scoping Review. J Hum Lact. 36(4):647-656, 2020
  8. Wen G, **Baumgartel, K.**, Alexander S. The Gut Microbiome as a Component of the Gut-Brain Axis in Cognitive Health. Biol Res Nurs. 22(4):485-494, 2020
  9. **Baumgartel, K.L.**, Deem, M. Promoting the Use of Pasteurized Human Donor Milk in the NICU: Benefits, Access, and Parental Choice. (2019). Nursing2019 (in press), 2019
  10. **Baumgartel, K.L.**, Facco, F. An Integrative Review of the Sleep Experiences of Mothers of Hospitalized Preterm Infants. (2018). Nursing for Women’s Health. (4):310-326, 2018
  11. **Baumgartel, K.L.**, Sneeringer, L., Cohen, S.M. From Royal Wet Nurses to Facebook: The Evolution of Milk Sharing. (2016). Breastfeeding Rev J. 24(3):25-32, 2016
  12. **Baumgartel, K.L.**, Groer, M., Cohen, S.M., Ren, D., Spatz, D.L., Conley, Y.P. (2016). Maternal Interleukin Genotypes are Associated with NICU Outcomes Among Low Birthweight Infants. Biological Research for Nursing. 19(1):36-44, 2016
  13. **Baumgartel, K.L.**, Groer, M., Cohen, S.M., Ren, D., Spatz, D.L., Conley, Y.P. (2016). The Impact of Promoter Polymorphisms on cytokine concentration in preterm breast milk and subsequent infant outcomes. Journal of Human Lactation. 32(3):425-37, 2016
  14. **Baumgartel, K.L.**, Spatz, D.L., American Academy of Nursing Expert Breastfeeding Panel. (2013). WIC (Special Supplemental Nutrition Program of Women, Infants, and Children): Policy versus Practice Regarding Breastfeeding. Nursing Outlook, 61(6):466-70, 2013
  15. **Baumgartel, K.L.**, Terhorst, L., Conley, Y.P., & Roberts, J.M. (2013). Psychometric evaluation of the Epworth Sleepiness Scale in an obstetric population. Sleep Medicine, 14(1):116-21, 2013
  16. **Baumgartel, K.L.,** & Conley, Y.P. (2012). The utility of breast milk in genetic or genomic studies. Breastfeeding Medicine, 8(3): 249-256, 2012
  17. **Baumgartel, K.**, Zelazny, J., Timcheck, T., Snyder, C., Bell, M., Conley, Y.P. (2011). Molecular Genomics Research Designs, Annual Review of Nursing Research, Vol. 29, 2011

**Scholarly Presentations**

1. **Podium Presentation, International Society for Research in Human Milk & Lactation, 2022**
2. **Invited Speaker, Pittsburgh Life & Sciences Biomedical Breakfast, 2022**
3. **Invited Speaker, Children’s Hospital of Philadelphia; Ambulatory Breastfeeding Consortium, 2022**
4. **Invited Speaker, Sleep and Circadian Rhythm & Maternal Perinatal Reproductive Health Research Hubs – University of Pittsburgh, 2021**
5. **Invited Speaker, Perinatal Research Seminar – University of South Florida, 2021**
6. **Invited Speaker,** Human Milk Metabolites in Antepartum and Postpartum Milk – Emory University School of Nursing, 2020
7. **Invited Speaker,** The Future of Feeding Preterm Infants – Medela, 2020
8. **Invited Speaker,** Maternal Sleep and Subsequent Breast Milk Volume – Association of Women’s Health, Obstetrics, and Neonatal Nursing, 2019
9. **Invited Speaker, International Society of Nurses in Genetics – The Development of a Biological Bank and Repository, 2019**
10. **Invited Speaker, Maternal Factors and Breast Milk Profiles: The Future of Feeding Preterm Infants An Ounce of Education: Mid-Atlantic Mothers’ Milk Bank Mini-conference, 2018**
11. **Invited Speaker, Maternal Factors and Breast Milk Profiles: The Future of Feeding Preterm Infants Western PA Lactation Consultants**
12. **Invited Speaker, Western Pennsylvania Breastfeeding Conference – Mercy Hospital UPMC, 2017**
13. **Keynote Speaker, University of Pittsburgh, School of Nursing, 2016**
14. **Invited Speaker, Factors Associated with Breast Milk Immunity: The Future of Feeding Preterm Infants – Excela Healthcare, 2016**
15. **Podium Presentation, An Epigenetic Approach to Examine DNA from Breast Milk – International Society of Nurses in Genetics, 2015**

**Poster Presentations**

1. **Baumgartel, K.,** Saint Fleur, A., Prescott, S., Fanfan, D., Elliott, A., Yoo, J., Harrington, M., Koerner, R., Ozorio-Dutra, S., Duffy. A., Groer, M.W. Social Determinants of Health Among Pregnant Hispanic Women and Associated Psychological Outcomes. American Academy of Nursing, 2023
2. **Baumgatel, K. L.,** O’Connor, D., Verardi, C., Boufford, C., Groer, M. A Nurse-Developed Human Milk Science Institute and Biobank, International Society for Research in Human Milk and Lactation, 2022
3. **Glover, C.F., Baumgartel, K., Circadian Rhythms of Mammalian Milk: A Systematic Literature Review, University of Pittsburgh Center for Sleep Medicine Regional Conference, 2021**
4. **Baumgartel, K.L., O’Connor D., Verardi C., Mullett, S., Wendell, S., Metabolites in Daytime versus Nighttime Human Milk, International Society of Research in Human Milk and Lactation, 2021**
5. **Baumgartel, K.L., DeMirci, J., Conley, Y.P., A Nurse-Initiated Repository: The Human Milk Science Institute and Biobank, International Society of Nurses in Genetics, 2019**
6. **Baumgartel, K.L., DeMirci, J., Conley, Y.P., The Human Milk Science Institute and Biobank: Microbiome and Fresh Breast Milk, Center for Medicine and Microbiome, University of Pittsburgh School of Medicine, 2019**
7. **Baumgartel, K.L., Facco, F.L. Maternal Sleep Among Mothers with Hospitalized Preterm Infants**
8. **PhD Program 25th Anniversary, Duquesne University, 2019**
9. **Baumgartel, K.L., Facco, F.L., The Sleep Experience of Mothers with Hospitalized Preterm Infants: A Review of the Literature. Sleep Research Day, University of Pittsburgh Sleep & Chronobiology Center, 2016**
10. **Baumgartel, K.L., Koleck, T., Osier, N., Conley, Y.P., Molecular Genomics Fellowship Program for Future Nurse Scientists. Women in Science and Medicine, University of Pittsburgh School of Medicine \*Award: Best Poster, 2015**
11. **Baumgartel, K.L., Cohen, S.M., Ren, D., Spatz, D.L., Groer, M., Conley, Y.P., The Impact of Promoter Polymorphisms on Cytokine Concentration in Preterm Breast Milk and Subsequent Infant Outcomes. American Society of Human Genetics, 2015**
12. **Baumgartel, K.L., Conley, Y.P., Ren, D., Groer, M., Trajectory Analysis of IL4, IL6, and IL10 in Preterm Breast Milk over the First Six Weeks Postpartum. International Society of Research in Human Lactation, 2014**

**Funding**

**IGNITE Award (Microbiome),** 2023

**Funding Source:** University of South Florida Microbiome Institutes **| Study Design:** Observational

**Francis Perkins Kuehn Research Award –** The Administration of Time-Matched Breast Milk: Infant Sleep Protection and Promotion, 2021

**Funding Source: University of Pittsburgh School of Nursing | Study Design: Randomized Controlled Trial**

**Dean’s Award –** The Impact of Maternal Sleep on Human Milk Oligosaccharides and Microbiome, 2021

**Funding Source: University of South Florida College of Nursing | Study Design: Observational**

**Principal Investigator –** Circadian Impact on Human Milk Metabolites, 2019

**Funding Source: Duquesne University | Study Design: Observational**

**Principal Investigator –** Milk Macronutrients and Subsequent Preterm Infant Growth, 2019

**Funding Support: Duquesne University | Study Design: Observational**

**Principal Investigator –** The Sleep Experience of Mothers with Hospitalized Preterm Infants and Subsequent Breast Milk Profiles, 2016 to 2018

**Funding Support: NIH, F32NR017113 | Association of Women’s Health, Obstetrics and Neonatal Nursing | Study Design: Observational**

**Principal Investigator –** The impact of promoter polymorphisms on cytokine concentration in preterm breast milk and subsequent neonatal outcomes, 2015

**Funding Support: Judith A. Erlen Research Award | Corrine M. Barnes Award | Study Design: Observational**

**Principal Investigator –** Pilot study: Breast milk is not a uniform substance: epigenetic mechanisms, 2011 to 2013

**Funding Support: International Society of Nurses in Genetics; Medela, Sigma Theta Tau | Study Design: Observational**

**Litigation History**

**Expert Testimony Witness (Deposition) –** Markun Zusman &Compton LLP; Testimony related to state-of-the-science human milk handling procedures, 2023

**Relevant Service**

**PhD Admissions Committee, Chair, BS-PhD Recruitment Subcommittee – University of South Florida, College of Nursing, 2021 – Present**

**Member, Medical Advisory Board, Mid-Atlantic Mothers’ Milk Bank, 2020 – Present**

**Founder and President, Human Milk Science Institute & Biobank, Pittsburgh, PA | Contribution: Obtained more than $750,000 in grants to support laboratory, 2018 – Present**

**Research Advisory Committee, International Society of Nurses in Genetics, 2015 – Present**

**Abstract Reviewer / Judge – University of South Florida, Undergraduate Research Seminar, 2021**

**Vice President, Sigma Theta Tau, Duquesne University School of Nursing, 2019 – 2020**

**Community Health Advisor, New York City District 9 City Council Candidate, Harlem, NY, 2016 – 2020**

**Invited Guest, Expert Panel on Breastfeeding, American Academy of Nursing, 2012 – 2014**

**Board Member, Mid-Atlantic Mothers’ Milk Bank (Pittsburgh, PA) | Obtained more than $1,000,000 in grants to support initiation, 2012 – 2019**

**Awards & Honors**

**Led the development of the 1st non-profit biological bank for breast milk research in the US (Human Milk Science and Biobank, Pittsburgh PA) (2015 – Present)**

**American Academy of Nursing Fellow, Inducted October 2023 (2023)**

**Outstanding Young Alumni Award, University of Pittsburgh - School of Nursing (2021)**

**40 Under 40, Pittsburgh Magazine (2020)**

**Research Award: Human Milk and Lactation, University of Pennsylvania School of Nursing (2020)**

**NINR/NIH Ruth L. Kirschstein National Research Service Award (NRSA) Individual Postdoctoral Fellowship (F32): The Sleep Experience of Mothers with Hospitalized Preterm Infants and Subsequent Breast Milk Profiles (2017 – 2018)**

**Association for Women’s Health, Obstetrics, and Neonatal Nurses / March of Dimes “Saving Babies, Together” (2017)**

**Community Health Advisor, New York City District 9 City Council Candidate (2016 – 2018)**

**Outstanding Community Service Award, University of Pittsburgh School of Nursing (2016)**

**Dorothy Drake Brooke Endowment Award (2013)**

**International Society of Nurses in Genetics, Research Award (2013)**

**Judith A. Erlen Research Award (2013)**

**Sigma Theta Tau Research Award (2012)**

**Corrine M. Barnes Award (2011)**

**Initiated and developed a free weekly breastfeeding class offered to clinic patients. Obtained approval from the health department to donate 300+ flu shots for pregnant women, during nationwide supply shortages. (2007 - 2008)**

**Professional Associations**

Fellow, American Academy of Nursing, 2023 – Present

Associate Member, International Society for Research in Human Milk and Lactation, 2015 – Present

Member, Association of Women’s Health, Obstetric and Neonatal Nurses, 2016 – Present

Member, American Nurses Association, 2016 – 2020

Member, National Association of Neonatal Nurses, 2015 – 2019

Member, American Society of Human Genetics, 2013 – 2015

Member, International Society of Nurses in Genetics, 2009 – Present

Member, Sigma Theta Tau, 2005 – Present

Board of Directors, Vice President, Hello Bully, 2013 – 2016

Co-chair, Student Alumni Relations Committee, Penn Nursing Alumni Board, 2011 – 2013

Founding Board Member, Mid-Atlantic Mothers’ Milk Bank, 2013 – 2019

Dean’s Advisory Committee, University of Pittsburgh School of Nursing, 2011 – 2012

Board Member, Lactation Committee of the Western Pennsylvania Hospital, 2007 – 2009

Legislative Coordinator, Student Nurses Association of Pennsylvania, 2006 – 2008

Nursing Representative, University of Pennsylvania Class of 2006, 2004 – 2006

President/Secretary/Treasurer/Board of Directors, Student Nurses at Penn, 2003 – 2005

**Technical Skills**

SAS **|** SPSS **|** Electronic Medical Records **|** Qualtrics **|** Survey Monkey **|** Redcap **|** Microsoft Office Suite

**Language Proficiencies**

English (Native) **|** French (Proficient)