

Obstetrics & Gynecology NEWSLETTER

SCIENCE FEATURE:

Janet Rader, MD, one of the supervising senior authors of *Analysis of Ugandan Cervical Carcinomas Identifies Human Papillomavirus Clade-specific epigenome and transcriptome landscapes* — published in the *nature genetics journal*

Cervical cancer is the most common cancer affecting sub-Saharan African women and is prevalent among HIV-positive (HIV+) individuals. No comprehensive profiling of cancer genomes, transcriptomes or epigenomes has been performed in this population thus far. We characterized 118 tumors from Ugandan patients, of whom 72 were HIV+, and performed extended mutation analysis on an additional 89 tumors. We detected human papillomavirus (HPV)-clade-specific differences in tumor DNA methylation, promoter- and enhancer-associated histone marks, gene expression and pathway dysregulation. Changes in histone modification at HPV integration events were correlated with upregulation of nearby genes and endogenous retroviruses.

NEW GRANT:

- **Emily Davidson, MD (co-investigator):** NIH Diabetes, Digestive and Kidney Disease (NIDDK)—1 P20 DK127511-01 —Wisconsin Exploratory Center for Interdisciplinary Research in Benign Urology

EDUCATION

RESEARCH FEATURE:

Abbey Kruper, PsyD; Amy Domeyer-Klenske, MD; Kristina Kaljo, PhD; authors of *Secondary Traumatic Stress in Ob-Gyn: A Mixed Methods Analysis Assessing Physician Impact and Needs* — published in the *Surgical Education journal*

Obstetrics and Gynecology providers are likely to experience symptoms of secondary traumatic stress following adverse patient events similar to other medical specialties. Comprehensive programs to address emotional well-being of physicians are important to promote collegiality and reduce symptoms of secondary traumatic stress. Safety and transparency with opportunities for group processing are identified as essentials for positive institutional culture, as well as peer support programs.

FEATURED CLINICAL TRIALS:

A Trial of Pessary and Progesterone for Preterm Prevention in Twin Gestation With a Short Cervix (PROSPECT) - The Prospect study is a research study designed to find out whether pessary use or vaginal progesterone lowers the risk of babies being born preterm to women who are carrying twins and have a short cervix. It is funded by the Eunice Kennedy Shriver National Institute of Child Health and Human Development. Fourteen medical centers across the country are part of this research study, and in all, 630 women with twin pregnancies who have a short cervix will be enrolled. MCW is one of the sites for the study with Dr. Palatnik serving as a site- PI. If your patient carries twins and is diagnosed with short cervix <3 cm, she may be eligible to participate. Thank you in advance for referring your patients to the trial.

To donate, visit our website at <https://obgyn.mcw.edu/about/donate/> or call (414) 955-4711



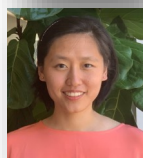
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WELCOME:

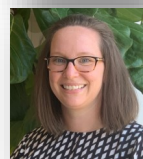
Stephanie Gunderson, MD—Assistant Professor in Reproductive Endocrinology & Infertility, joining us from Washington University in St. Louis (OBGYN Alumni 2017)



Lisa Lockett-Neumuth, CNM —Certified Nurse Midwife in Maternal-Fetal Medicine



Yiwen Cui, MD—Fellow in Maternal-Fetal Medicine, joining us from Albany Medical Center in New York



Lindsey McAlarnen, MD—Fellow in Gynecologic Oncology, joining us from Loyola University Medical Center in Chicago

IN THE NEWS:

- American Association for Cancer Research recognizes **Dr. Janet Rader** with Team Science Award
- **Dr. Timothy Klatt** honored with 2020 Smallwood Award for Clinical Excellence
- **Seema Menon, MD**—Assistant Professor, featured on CNN Health for “Teens need easy access to condoms and long-acting reversible contraception, say pediatricians”
- **Dr. Garrett Fitzgerald** featured on “The Latest Word on Medicine” talking about Covid-19 during pregnancy

CLINICAL UPDATES:

Accreta Program at Froedtert & The Medical College of Wisconsin—Partnering with many non-obstetric subspecialists on campus, our MFM physicians have developed a Morbidly Adherent Placenta Spectrum (MAPS) team to make innovative, individualized care plans to reduce the health complications for mothers and newborns. Our goal is to serve as the regional leader in managing this serious diagnosis.

Virtual Visits—The COVID-19 pandemic has pushed us to enter into the world of virtual visits and allow for stable technology for it.

UroGyn—Carol Eling, our NP, is now offering UroGyn services.

A long time employee, friend, nurse, researcher, manager, **Mary Pipkin, RN**, retired on April 23. Her longtime career started supporting providers as a nurse at Waukesha Hospital. Her Froedtert and MCW career started when she became the OBGYN clinic manager, then the MFM clinic manager, then a research nurse where she ended her career. Mary has been with the OBGYN department and FH for over 20 years. She worked in L&D for many years and later transitioned to research, participating in gyn-onc clinical trials. Mary has been an integral part of our research team and her contribution to the department will be long valued and remembered. Her hard work, dedication and commitment are admirable. Filling her shoes will be an impossible task. She will be greatly missed by our OBGYN family, and of course by all of our patients.



✓ MARK YOUR CALENDARS:**VIRTUAL COMMUNITY TALKS:**

How Does Preeclampsia Impact Your Pregnancy and Your Future Health? with Jennifer Jury

McIntosh, DO —December 9

Find virtual information on our website under events

**Department Professional
Development Talks:**

Our department has supported having a number of guest speakers come in and further educate our faculty for development. Topics such as work/home balance, faculty profiles, well being and burnout, health care disparities, research and scholarly writing, choosing when to advise, coach, or mentor, research mentoring and ethics.

Linda G. Buchsbaum, LCSW, LMFT, MSW, wife of previous OBGYN chair Herbert Buchsbaum, passed away on November 21, 2020 at age 83. Linda practiced as a marriage and family psychotherapist since moving to Milwaukee from Pittsburgh in 1988. She was on the faculty at the Medical College of Wisconsin where she supervised trainees. She had professional memberships in many societies and was a mentor to workplace colleagues. She was a caring family member, friend to many and passionate about being a mother and helping families overcome difficulties.

Memorial contributions in Linda's name may be made to The Buchsbaum Family Endowment Memorial Fund: Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226 Attn: Office of Development.



Stay in touch and follow us!
Have something to share?
Send it our way!

DEPARTMENT NEWS:

- **Kate Dielentheis, MD** —Assistant Professor, received the 2020 Lennon Award. It is given annually to a full-time junior faculty member engaged in clinical practice who has demonstrated a proclivity for teaching at the Medical College of Wisconsin and who is committed to excellence in teaching or educational development. This award was specifically created by Dr. Lennon to recognize faculty who have clearly “made a difference” to the teaching programs at our institution.
- **William Bradley, MD**—Associate professor, selected to be a GOG Partners Investigator Council, a National/International clinical trials group
- **Pradeep Chaluvaly-Raghavan, PhD** featured in Department of Defense Congressionally Directed Medical Research Programs on “Targeting miR551b to Prevent Tumor Formation and Metastasis of Triple-Negative Breast Cancer (TNBC)”
- **Jessica Francis, MD** now the OBGYN Residency Director

ALUMNI CORNER:

We'd like to hear from you!
Please send us your
updates to:

obgynresidency@mcw.edu

SPARCC (Student-centered Program to Advance Research in Cancer Careers) 2020 Program:

SPARCC-ing a Passion for Clinical Research during a Global Pandemic: With a resounding commitment to the already accepted Scholars, Drs. Rader and Kaljo, co-PIs of Student-Centered Pipeline to Advance Research in Cancer Careers (SPARCC), agreed to forge ahead into new territory – the synchronous, virtual learning environment. Immediately, the 40-day program was overhauled, including all workshops, practicums, and research opportunities to be facilitated completely through a video conferencing learning platform. This became an education-like Apollo space mission: testing the variables of how content would be projected and anticipating glitches and technologic errors. There was reliance on spouses and colleagues as breakout room test-case subjects. Without losing integrity and rigor of the original curriculum, virtual SPARCC was rolled out on June 11th and every day for the next 40 days, the Scholars were engaged in a rich learning experience exploring cancer clinical trials, health disparities, and various research methodologies.

RESIDENT NEWS:

- Alina Tvina, Justin Harold & Abigail Strong elected into AOA
- MCWAH Excellence & Teaching Award Required Clerkship: Lauren Kurtz
- Talia Coney received the Society for Academic Specialists in General OBGYN (SASGOG)

PUBLICATIONS:

DiSilvestro P, Colombo N, Scambia G, Kim BG, Oaknin A, Friedlander M, Lisianskaya A, Floquet A, Leary A, Sonke GS, Gourley C, Banerjee S, Oza A, González-Martín A, Aghajanian CA, **Bradley WH**, Mathews CA, Liu J, Lowe ES, Bloomfield R, Moore KN. Efficacy of Maintenance Olaparib for Patients With Newly Diagnosed Advanced Ovarian Cancer With a BRCA Mutation: Subgroup Analysis Findings From the SOLO1 Trial. *J Clin Oncol*. 2020 Oct 20

Deepak Parashar, Bindu Nair, Anjali Geethadevi, Jasmine George, Ajay Nair, Shirng-Wern Tsaih, Ishaque P. Kadam-beri, Gopa Kumar Gopinadhan Nair, Yiling Lu, Ramani Ramchandran, **Denise S. Uyar, Janet S. Rader**, Prahlad T. Ram, Gordon B. Mills, **Sunila Pradeep and Pradeep Chaluvaly-Raghavan**. Peritoneal Spread of Ovarian Cancer harbors Therapeutic Vulnerabilities Regulated by FOXM1 and EGFR/ERBB2 Signaling

Pulliero A, You M, **Chaluvaly-Raghavan P**, Marengo B, Domenicotti C, Banelli B, Degan P, Molfetta L, Gianiorio F, Izzotti A. Anticancer effect of physical activity is mediated by modulation of extracellular microRNA in blood *Oncotarget*. 1 June 2020

Chang OH, **Davidson ERW**, Thomas TN, Paraiso MFR, Ferrando CA. Predictors for Pelvic Organ Prolapse Recurrence After Sacrocolpopexy: A Matched Case-Control Study. *Female Pelvic Med Reconstr Surg*. 2020 Apr 09

Thomas TN, **Davidson ERW**, Lampert EJ, Paraiso MFR, Ferrando CA. Long-term pelvic organ prolapse recurrence and mesh exposure following sacrocolpopexy. *Int Urogynecol J*. 2020 Sep

Gunderson S, Jungheim ES, Kallen CB, Omurtag K. Public reporting of IVF outcomes influences medical decision-making and physician training. *Fertil Res Pract*. 2020

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Kruper A, Domeyer-Klenske A, Treat R, Pilarski A, **Kaljo K**. Secondary Traumatic Stress in Ob-Gyn: A Mixed Methods Analysis Assessing Physician Impact and Needs. *J Surg Educ*. 2020 Sep 15

PUBLICATIONS CONT'D:

Avery EJ, Kenney SP, Byers BD, **McIntosh JJ**, Hoover C, Jiang Y, Xia L, Yu Z, George JN. Thrombotic thrombocytopenic purpura masquerading as preeclampsia with severe features at 13 weeks' gestation. *Am J Hematol.* 2020 Jun 29

Durand MJ, Hader SN, Derayunan A, Zinkevich N, **McIntosh JJ**, Beyer AM. BCR-ABL tyrosine kinase inhibitors promote pathological changes in dilator phenotype in the human microvasculature. *Microcirculation.* 2020 Oct;27

McCormick A, Kristianto J, Wang X, **McIntosh J**, **Cruz M**, Hibbard JU, Blank RD. Placental endothelin-converting enzyme-1 is decreased in preeclampsia. *Pregnancy Hypertens.* 2020 Apr;20

Palatnik A, **McIntosh JJ**. Protecting Labor and Delivery Personnel from COVID-19 during the Second Stage of Labor. *Am J Perinatol.* 2020 Jun

McIntosh JJ. Corticosteroid Guidance for Pregnancy during COVID-19 Pandemic. *Am J Perinatol.* 2020 06

Palatnik A, Moosreiner A, Olivier-Van Stichelen S. Reply. *Am J Obstet Gynecol.* 2020 Aug 13

Palatnik A, Moosreiner A, Olivier-Van Stichelen S. Reply. *Am J Obstet Gynecol.* 2020 Aug 12

The Longitudinal Influence of Social Determinants of Health on Glycemic Control in Elderly Adults With Diabetes. Walker RJ, Garacci E, **Palatnik A**, Ozieh MN, Egede LE. *Diabetes Care.* 2020 Apr

Prenatal and postnatal phenotype of a pathologic variant in the ATP6AP1 gene. Tvina A, Thomsen A, **Palatnik A**. *Eur J Med Genet.* 2020 Jun

Harrison RK, **Palatnik A**. The association between preeclampsia and ICD diagnosis of neonatal sepsis. *J Perinatol.* 2020 Aug 12

Coney T, Russell R, Leuthner SR, **Palatnik A**. Maternal Outcomes of Ongoing Pregnancies Complicated by Fetal Life-Limiting Conditions. *Am J Perinatol.* 2020 Jul 09

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Li CH, Prokopec SD, Sun RX, Yousif F, Schmitz N, PCAWG Tumour Subtypes and Clinical Translation, Boutros PC, PCAWG Consortium. Sex differences in oncogenic mutational processes. *Nat Commun.* 2020 08 28

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Mai PL, Miller A, Gail MH, Skates S, Lu K, Sherman ME, Ioffe OB, Rodriguez G, Cohn DE, Boggess J, Rutherford T, Kauff ND, **Rader JS**, Phillips KA, DiSilvestro PA, Olawaiye AB, Ridgway MR, Greene MH, Piedmonte M, Walker JL. Risk-Reducing Salpingo-Oophorectomy and Breast Cancer Risk Reduction in the Gynecologic Oncology Group Protocol-0199 (GOG-0199). *JNCI Cancer Spectr.* 2020 Feb

Rydze RT, **Bosler J**, **Schoyer KD**. Subchorionic hematoma and implantation: Can better understanding the former help improve the latter? *Fertil Steril.* 2020 Sep

Oza AM, Estevez-Diz M, Grischke EM, Hall M, Marmé F, Provencher D, **Uyar D**, Weberpals JI, Wenham RM, Laing N, Tracy M, Freshwater T, Lee MA, Liu J, Qiu J, Rose S, Rubin EH, Moore K. A Biomarker-enriched, Randomized Phase II Trial of Adavosertib (AZD1775) Plus Paclitaxel and Carboplatin for Women with Platinum-sensitive TP53-mutant Ovarian Cancer. *Clin Cancer Res.* 2020 Sep 15