Dear Friends of the CVC,

It may be the lazy days of summer, but things here in the CVC are not slowing down. I’m proud to say that we have numerous accomplishments to celebrate, thanks to the tireless efforts of our faculty, staff, and committee members. The CVC is full of renewed energy as we host many seasonal trainees (i.e., high school students and undergraduates) who are being exposed to opportunities for inquiry and curiosity in our laboratories.

I wish everyone a happy, healthy and safe summer.

Ivor J. Benjamin, MD
Director of the CVC

June 5, 2018 MCW News — Julie K. Freed, MD, PhD is the recipient of the 2018 Steve Cullen Healthy Heart Scholar Award, which honors the memory of former Milwaukee Alderman Steve Cullen who died suddenly of a heart attack at age 40. Dr. Freed is a member of the Cardiovascular Center, an assistant professor in the Department of Anesthesiology and alumna of the Medical College of Wisconsin (MCW).

A total of $50,000 will fund her research project testing vitamin B12 for the treatment of dangerously low blood pressure caused by blood infections - $25,000 from the Cullen Scholar Fund and another $25,000 from a grant awarded to the Cardiovascular Center by the Research Education Program Fund, a component of the Advancing a Healthier Wisconsin Endowment at MCW.

The Steve Cullen Healthy Heart Scholar Award is a competitive research grant awarded each year for cardiovascular research within the Cardiovascular Center at MCW. The $25,000 award comes from the Cullen Family Healthy Heart Research Program and proceeds of the annual Steve Cullen Healthy Heart Club Run & Walk.

June 6, 2018 — Carmen R. Bergom, MD, PhD, assistant professor of radiation oncology and Cardiovascular Center member, is the recipient of the 2018 Michael H. Keelan, Jr. MD Scholar Award for her project, “Unique genetic models to identify mediators of radiation-induced heart disease”.

This $50,000 competitive award is made possible by the Michael Keelan, Jr. Research Foundation Grant, an endowment managed by the Greater Milwaukee Foundation and designated for cardiovascular research at the Medical College of Wisconsin Cardiovascular Center.

The fund, established by the Tendick Family, honors the life and career of Michael H. Keelan, Jr., MD, ’60, whose career as a cardiologist spanned several decades. Dr. Keelan is currently an active member on the Cardiovascular Center Board.

Special thanks to our Study Section reviewers who provided scientific oversight for the selection of these Cullen and Keelan awardees!

-CVC Grants Administration
Cardiovascular Center 2018 Research Retreat
“Inspiring Impactful Science”

The Cardiovascular Center’s 2018 Research Retreat is a pinnacle event each year, and this year is no exception. Held on Friday, Oct. 19 at the Harley Davidson Museum, and co-chaired by Dr. Mingyu Liang (Faculty Chair) and Christine Klemens, PhD (Trainee Chair), this year’s theme “Inspiring Impactful Science,” will focus on the significant impact of CVC investigators and their research on cardiovascular sciences, patient care, and health disparities in our community.

The retreat will host nationally-recognized keynote speaker, Joseph Hill, MD, PhD. Dr. Hill is the Editor-in-Chief of Circulation and Professor of Internal Medicine and Molecular Biology, Chief of Cardiology at UT Southwestern Medical Center, and Director of the Harry S. Moss Heart Center. Faculty and trainee presentations featuring impactful science conducted in the CVC and a poster session (with prizes!), will make for a day filled with research, collaboration, and networking.

The poster session is open to trainees, junior faculty, faculty, community partners, and research support staff. The CVC is encouraging the presentation of original research, as well as community projects and laboratory bios for the opportunity to receive valuable feedback, collaborate, hone presentation skills, and to promote research within the CVC and outreach to community partners.

Interested in presenting a poster? Contact CVC@mcw.edu. Registration information coming soon.

Biostatistical Support Available to CVC Members

One of the many benefits the Cardiovascular Center provides to its members is the valuable resource of biostatistical support. The CVC employs two biostatisticians, Alexis Visotcky, MS and Rodney Sparapani, PhD, who are available for consultation. In FY 2017, 46 CVC faculty, trainees and staff benefited from their support. If you have biostatistical needs, book an appointment today: Alexis Visotcky, MS, CVC Biostatistical Analyst (avisotcky@mcw.edu) or Rodney Sparapani, PhD, CVC Faculty Biostatistician (rsparapa@mcw.edu).

Three CVC Members Receive CTSI Pilot Awards

The CTSI community came together to work in partnership in interdisciplinary research teams to advance research discoveries that lead to improved health. The CTSI Pilot Translational and Clinical Studies Program advocates, facilitates, and fosters the continuum of research from bench to bedside and from bedside to community practice. The studies will explore the multidisciplinary and clinical potential of promising mechanistic findings that have the potential to be translated into improvements to clinical practice and community health.

The following CVC members were awarded 2018 Traditional Pilot Awards:

“MYH6 Variant Effect on Cardiomyocyte Biomechanics and Patient Outcomes in Hypoplastic Left Heart Syndrome” - Aoy Mitchell, PhD

“CTSI Pilot Award: Translating Medical Reports for Patients” - Bradley Crotty, MD, MPH; Jay Urbain, PhD, MBA

“Total Cell-Free Deoxyribonucleic Acid (total cf-DNA) as a Predictor of Severity of Illness and Outcome Following Pediatric Cardiac Surgery” - Michael Mitchell, MD; John Scott, MD
Cardiovascular Center Invests in New Core Equipment

May 2018—The Cardiovascular Center recently invested some of its retained earnings in new core equipment available for use by CVC members. The goal was to invest CVC resources in equipment that would benefit as many CVC investigators as possible. After surveying CVC members and discussing at the quarterly CVC Lab Forum, the following pieces of equipment and/or upgrades were purchased:

- **CLARIOstar Microplate Reader**
  Location: Core Equipment Room, MEB, M4480
- **ChemiDoc MP Imaging System**
  Location: Core Equipment Room, MEB, M4480
- **640-40mW OBIS Argon Laser on Nikon Confocal Microscope**
  Location: HRC, H4360

Outstanding Female Scientists, Physicians Showcased at Women in Science Lecture Series

March 29, 2018 MCW News—Female medical students, researchers, physicians and scientists will share knowledge and encouragement and celebrate accomplishments at the Medical College of Wisconsin’s (MCW) 12th annual Women in Science series. Four MCW faculty members will present their cutting-edge work that has inspired exceptional advancements in health, medicine and education throughout the state.

“The Women in Science Series is proud to showcase and celebrate the extraordinary talent of female scientists and physicians at MCW who are making significant contributions to the health of the community,” said Cardiovascular Center member **Jessica Olson, PhD**, chair of the Women in Science committee and professor of epidemiology in the Institute for Health and Equity. “This year’s lineup of speakers are outstanding leaders in their respective fields and sure to inspire all who attend.”

The next three lectures will take place in June, July and August with presentations from Jacquelyn Kulinski, MD, professor of medicine (cardiovascular medicine); Heidi Christianson, PhD, professor of psychiatry and behavioral medicine and training director of the Health Psychology Residency; and Kajua Lor, PharmD, director of ambulatory care practice advancement and professor and chair of clinical sciences in the MCW School of Pharmacy.

Cardiovascular Center member, **Dr. Kulinski** will discuss the importance of physical activity in health and longevity and explain how exercise may not fully prevent the harms of “sitting disease” in modern society. Post traumatic growth, a process that occurs in response to adversity, will be the topic of Dr. Christianson’s lecture, and Dr. Lor will present on the history and science behind herbal medicines.

Their lectures are scheduled for June 5, July 31 and August 30, respectively, from 11:30 a.m.-1 p.m. at the Wisconsin Club, 900 W. Wisconsin Avenue, Milwaukee.
Recent Member Publications

Baldwin, AC; Naatz, A; Bohnsack, RN; Bartosiak, JT; Oleson, BJ; Hansen, PA; Dahms, NM; Corbett, JA. Cation-Independent Mannose 6-Phosphate Receptor Deficiency Enhances beta-Cell Susceptibility to Palmitate. MOLECULAR AND CELLULAR BIOLOGY, 38 (8):10.1128/MCB.00680-17 APR 2018.

Bello, SM; Shimoyama, M; Mitraka, E; Launderkind, SJF; Smith, CL; Eppig, JT; Schriml, LM. Disease Ontology: improving and unifying disease annotations across species. DISEASE MODELS & MECHANISMS, 11 (3):10.1242/dmm.032839 MAR 2018.


Cao, S; Anishkin, A; Zinkevich, NS; Nishijima, Y; Korishettar, A; Wang, ZH; Fang, J; Wilcox, DA; Zhang, DX. Transient receptor potential vanilloid 4 (TRPV4) activation by arachidonic acid requires protein kinase A-mediated phosphorylation. JOURNAL OF BIOLOGICAL CHEMISTRY, 293 (14):5307-5322; 10.1074/jbc.M117.811075 MAR 6 2018.

Cheng, Y; Song, HY; Pan, XQ; Xue, H; Wan, YF; Wang, T; Tian, ZM; Hou, ET; Lanza, IR; Liu, PY; Liu, Y; Laud, PW; Usa, K; He, YC; Liang, MY. Urinary Metabolites Associated with Blood Pressure on a Low- or High-Sodium Diet. THERANOSTICS, 8 (6):1468-1480; 10.7150/thno.22018 2018.

Du, LL; Gao, ZG; Paoletta, S; Wan, TC; Gizewski, ET; Barbour, S; van Veldhoven, JPD; IJzerman, AP; Jacobson, KA; Auchampach, JA. Species differences and mechanism of action of A(3) adenosine receptor allosteric modulators. PURINERGIC SIGNALLING, 14 (1):59-71; 10.1007/s11302-017-9592-1 MAR 2018.


Hanson, QM; Carley, JR; Gilbreath, TJ; Smith, BC; Underbakke, ES. Calmodulin-induced Conformational Control and Allostery Underlying Neuronal Nitric Oxide Synthase Activation. JOURNAL OF MOLECULAR BIOLOGY, 430 (7):935-947; 10.1016/j.jmb.2018.02.003 MAR 30 2018.


la Cour, MF; Mehrvar, S; Heisner, JS; Motlagh, MM; Medhora, M; Ranji, M; Camara, AKS. Optical metabolic imaging of irradiated rat heart exposed to ischemia-reperfusion injury. JOURNAL OF BIOMEDICAL OPTICS, 23 (1):10.1117/1.JBO.23.1.016011 JAN 2018.
Recent Member Publications

Langer, TM; Neumueller, SE; Crumley, E; Burgraff, NJ; Talwar, S; Hodges, MR; Pan, L; Forster, HV. Ventila-
tion and neurochemical changes during mu-opioid receptor activation or blockade of excitatory recep-
tors in the hypoglossal motor nucleus of goats. JOURNAL OF APPLIED PHYSIOLOGY, 123 (6):1532-
1544; 10.1152/japplphysiol.00592.2017 DEC 2017.

Ma, C; Beyer, AM; Durand, M; Clough, AV; Zhu, DL; Toro, LN; Terashvili, M; Ebben, JD; Hill, RB; Audi, SH; Medhora, M; Jacobs, ER. Hyperoxia Causes Mitochondrial Fragmentation in Pulmonary Endothelial Cells by Increasing Expression of Pro-Fission Proteins. ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY, 38 (3):622-635; 10.1161/ATVBAHA.117.310605 MAR 2018.

Mammoto, T; Muyleart, M; Konduri, GG; Mammoto, A. Twist1 in Hypoxia-induced Pulmonary Hyper-
tension through Transforming Growth Factor-beta-Smad Signaling. AMERICAN JOURNAL OF RESPIRA-


Nielsen, AW; Helm, MC; Kindel, T; Higgins, R; Lak, K; Helmen, ZM; Gould, JC. Perioperative bleeding and blood transfusion are major risk factors for venous thromboembolism following bariatric surgery. SUR-
GICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES, 32 (5):2488-2495; 10.1007/s00464-
017-5951-9 MAY 2018.


Schafer, C; Moore, V; Dasgupta, N; Javadov, S; James, JF; Glukhov, AI; Strauss, AW; Khuchua, Z. The Effects of PPAR Stimulation on Cardiac Metabolic Pathways in Barth Syndrome Mice. FRONTIERS IN PHARMACOLOGY, 9 10.3389/fphar.2018.00318 APR 2018.

Sung, YJ; Winkler, TW; .... Broeckel, U; CHARGE Neurology Working Grp; COGENT-Kidney Consortium; Giant Consortium; Lifelines Cohort Study, et al. A Large-Scale Multi-ancestry Genome-wide Study Accounting for Smoking Behavior Identifies Multiple Significant Loci for Blood Pressure. AMERICAN JOUR-

Widlansky, ME; Jensen, DM; Wang, JL; Liu, Y; Geurts, AM; Krieger, AJ; Liu, PY; Ying, R; Zhang, GY; Ca-
sati, M; Chu, C; Malik, M; Branum, A; Tanner, MJ; Tyagi, S; Usa, K; Liang, MY. miR-29 contributes to normal endothelial function and can restore it in cardiometabolic disorders. EMBO MOLECULAR MED-

Wu, R; Kong, YW; Yin, JY; Liang, RL; Lu, ZY; Wang, NS; Zhao, Q; Zhou, Y; Yan, CG; Wang, F; Liang, MY. Antithrombin III is a Novel Predictor for Contrast Induced Nephropathy After Coronary Angiography. KIDNEY & BLOOD PRESSURE RESEARCH, 43 (1):170-180; 10.1159/000487499 2018.

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*CVC faculty members in bold. Want to see your publications here? Email cvc@mcw.edu.
Training

CVC Supports Students Through MCW Summer Research Experience Programs

This summer, the Cardiovascular Center is pleased to support the stipends of eight students at all stages of education including high school, undergraduate, and medical students through multiple Medical College of Wisconsin (MCW) student summer research experience programs. This support directly ties into our mission of training the next generation of cardiovascular scientists and is funded in part by the Cullen Family Healthy Heart Research Program and proceeds of the annual Steve Cullen Healthy Heart Club Run & Walk.

These programs allow students the opportunity to receive hands-on experience working with a faculty mentor in their laboratories. The CVC will be supporting students in the following programs:

- **Research Opportunity for Academic Development in Science (ROADS):** 1 high school student
- **Summer Program for Undergraduate Research (SPUR):** 1 undergraduate student
- **500 Stars:** 3 high school or undergraduate students
- **Diversity Summer Health-Related Research Education Program (DSHREP):** 1 undergraduate student
- **Medical Student Summer Research Program (MSSRP):** 2 second-year rising medical students

For more information on these programs, visit www.mcw.edu/Cardiovascular-Center and click on the “For Students” tab.

CVC Trainees Win Awards at the 2nd Annual GSA Symposium

The 2nd Annual Graduate Student Association (GSA) Symposium took place on March 23. Research was presented through oral and poster presentations and scored by peer-review. Dawid Chabowski (Gutterman Lab) and Melanie Gartz (Strande Lab) were both awarded for outstanding poster presentations.

CVC Preceptor Chosen for CVC-Sponsored Summer Program for Undergraduate Research Student

Congratulations to Brian Hoffmann, PhD, assistant professor of biomedical engineering, for being selected as the preceptor for the 2018 Cardiovascular Center’s (CVC)-sponsored Summer Program for Undergraduate Research (SPUR) student.

This summer, he is hosting a junior from Rutgers University, Gabrielle Caponigro, who will study the influence of non-caloric artificial sweeteners on vascular health.

In support of its mission to train the next generation of cardiovascular scientists, the CVC provides funds to support the stipend and housing (up to a $4,500 value!) for one MCW SPUR student in a CVC member’s lab who is working on a cardiovascular-related project. Eight applications from CVC preceptors were received this year.

Past preceptors are Ashraf El-Meanawy, MD, PhD (2017) and Ivor Benjamin, MD (2016).
Community Engagement

In keeping with the Cardiovascular Center’s mission of engaging the community to eliminate disparities in health outcomes, the CVC will continue to highlight community-engaged research throughout its upcoming CVC Seminar Series. Scheduled speakers include:

**July 18, 2018:**
- Katheryn E. Flynn, PhD
  - associate professor,
  - Department of Medicine, MCW
  - senior scientific director for patient outcomes, CIBMTR Milwaukee Campus

**Fall 2018:**
- Jeffrey Whittle, MD
  - professor,
  - Department of Medicine, MCW
- Matt Durand, PhD
  - assistant professor,
  - Department of Physical Medicine & Rehabilitation, MCW
- Amy E. Harley, PhD, MPH, RD
  - associate professor,
  - Joseph J. Zilber School of Public Health, UW-Milwaukee
  - Scientist, Center for Urban Population Health
  - Honorary Fellow, UW-Madison School of Medicine and Public Health

**Winter 2019:**
- Moriah Iverson, PhD
  - assistant professor of physical medicine and rehabilitation, and MCW principal investigator,
  - Cardiovascular Center (CVC) member
- Matthew Durand, PhD
  - Honorary Fellow, UW-Madison School of Medicine and Public Health
- Una Van Duvall (HeartLove Place)
- Paul Kjelland (ReciproCITY)
- Fidel Verdin (ReciproCITY)
- Latisha Gyden (HeartLove Place)
- Diamond Malone (HeartLove Place)

At this event, Cardiovascular Center (CVC) member, assistant professor of physical medicine and rehabilitation, and MCW principal investigator, Matthew Durand, PhD, Moriah Iverson, and their community partners, shared insights from their ongoing Community-Engaged Research (CEnR) study in a poster entitled, “The Science of Language: Creating a Framework for Authentic Community-Academic Collaborations.”

The poster highlighted how the use of cultural competence and language in their CEnR is central to establishing a scientifically-rigorous study design that respects the culture of the community and how they are overcoming barriers in communication with the community and researchers. In addition, the poster illustrated how this new partnership between a nonprofit organization (HeartLove Place) on Milwaukee’s north side in the 53212 zip code, an artist collective, a community-engaged project manager aimed to develop a framework focused on authentic and iterative dialogue to create language that 1) respected and represented the historical culture of the community, 2) accurately reflected the scientific aims of the study, and 3) met regulatory requirements of MCW’s Institutional Review Board. This framework resulted in co-creation of a study title, recruitment materials, and project description that was meaningful to all team members.

Funding for this 18-month, $50,000 award is made possible by the Advancing a Healthier Wisconsin Endowment grant awarded to the Cardiovascular Center and the MCW Office of Community Engagement by the Research and Education Program Fund, a component of the AHW endowment at MCW.
Froedtert & MCW Move to Alliance Member with the Cleveland Clinic Heart and Vascular Institute

March 16, 2018 MCW News - Froedtert & the Medical College of Wisconsin announced next steps in relationship with Cleveland Clinic on March 14, as the organization moves to an alliance member in Cleveland Clinic’s national network.

“This is a natural next step as we look to work closer and more collaboratively with our colleagues at Cleveland Clinic to continue the advancement of heart care locally and regionally,” said Lynn Fischer, vice president of Transplant and Heart and Vascular Service Lines.

In April 2016, Froedtert Hospital announced the affiliation with the Cleveland Clinic Heart and Vascular Institute, and became the only hospital in the upper Midwest to join the institute’s affiliate network; and now alliance network.

The relationship aligns the academic medical center with another AMC that is renowned for heart care, giving our health network access to the best practices that have helped Cleveland Clinic’s heart program achieve US News & World Report’s No. 1 ranking for more than 20 years.

Since 2016, both teams have had the opportunity to learn from each other to further advance the level of cardiac care available to patients in Southeastern Wisconsin.

A few highlights of success found with the affiliation include:

- Implementing a TAVR Program; performing the 100th TAVR in less than a year from launch and becoming one of the busiest programs in the country
- Expanding our valve center with the recruitment of new robotic surgeon and structural heart intervention cardiologist, Dr. Raikar and Dr. Salinger
- Adding several high-level recruits, Dr. Pearson, Dr. Lyle Joyce and Dr. David Joyce
- Receiving CMS certification for our heart transplantation program
- Offering advanced cardiac procedures not widely available including total artificial heart implants and pulmonary thromboendarctomy
- Quality and efficiency improvements throughout our care environments, including increasing radial cath, decreasing prolonged ventilation and improving on time starts in the cath lab.
- “Froedtert & the Medical College of Wisconsin have developed a remarkable heart program partnership over the past two years with Cleveland Clinic that has made a difference in the lives of our patients, their families and our community,” said John R. Raymond, Sr., MD, MCW president and CEO. “I believe that the strength and value of this partnership is one of the primary reasons that we have been able to enhance and expand our cardiovascular team.
- “Our research programs will continue to build on our growing clinical strength in cardiology, not only through clinical trials, but also through clinical-translational research and basic research,” Dr. Raymond added. “These linkages will strengthen our platform across both adult and pediatric cardiac disease.”

Were You Born Outside of the United States?

We are actively recruiting individuals who were born outside of the United States to participate in a study on social determinants of health and immigrant health outcomes.

Participants will be asked to complete a one-time study questionnaire that takes 1-2 hours to complete
- Must be at least 21 years of age
- Participants will receive a $25 gift card for their time

Please call the study line at 414-955-7390 for more information.

Subjects Needed: Healthy Individuals

We are looking for healthy individuals, ages 21 years and older, to serve as a comparison group for a study evaluating a novel cause for diabetic complications.

- The study involves two visits to the research center and approximately 3 hours of a total time commitment
- Compensation provided

Please call the MCW Vascular Study Lab at 414-805-3148 for more information.

Volunteers Needed for Sit-Stand Desk Study

Researchers are performing a clinical research study assessing health parameters in obese MCW office workers with the use of a sit-stand desk.

- The study involves four 1-2 hour visits, ultrasound of your arm and leg, blood tests, accelerometer activity assessments, bioimpedance measurements, and the use of a sit-stand desk.
- $150 compensation

Please call 414-955-6896 for more information.

*Note: In order to be a qualified participant, MCW employees must meet the requirements under the “Participation as Research Subjects” Corporate policy.
Cardiovascular Center to Hold “Heart of the Matter” Food and Wine Event

The Cardiovascular Center will be holding its inaugural signature event, “Heart of the Matter,” on Thursday, July 19, from 5:30–8:30 p.m. at The Atrium in Shorewood.

For guest speaker Lyle Joyce, MD, PhD, professor of surgery (cardiothoracic) and chief of adult cardiac surgery, cardiac research and transplantation are at the heart of his extensive and groundbreaking career. Dr. Joyce was on the team that implanted the first permanent artificial heart and was the first surgeon ever to use a total artificial heart in a woman—saving her life. He is world-renowned in the field of cardiac surgery and the most experienced heart transplant surgeon in Wisconsin.

This food and wine event will feature award-winning wines paired with a heart-healthy menu designed by Chef David Magnasco of The Chef’s Table. Proceeds from the Heart of the Matter Food and Wine Event will benefit the Medical College of Wisconsin Cardiovascular Center and support cardiovascular research, education, community outreach, and clinical care.

Event Details:
- 5:30 p.m. Rooftop Garden Cocktail Reception
- 6:30 p.m. Dinner followed by program featuring Guest speaker Dr. Lyle Joyce
- 8:30 p.m. Closing Remarks

For sponsorship opportunities or more details about the event, please contact: Natalie Strade, Senior Development Officer, (414) 955-5824 or nstrade@mcw.edu.

From the Cardiovascular Center Board Chair

This month marks the end of my two-year term as the Cardiovascular Center Board Chair. Although I will continue to remain an active board member, my time as chair has been quite meaningful to me.

I joined this board in 2008 to continue the legacy of my father, Ted Smith. Ted joined the Board of Trustees in 1972 seeing the value the institution brought to the community and state. Soon after, he co-chaired a committee that raised $17 million to move MCW from its downtown location to the Milwaukee Regional Medical Center campus. My father then became one of the founding members of the CVC Board in 1994. I learned a lot about philanthropy and the importance of giving back from both of my parents.

During my term as chair, our board rallied together in achieving a few significant accomplishments:

- We celebrated the CVC’s 25th anniversary last year, honoring the three directors of the center – Allen Cowley, Jr., PhD. David Harder, PhD. and Ivor Benjamin, MD, FAHA, FACC.
- Created a vision and mission for the CVC, incorporating its four mission pillars – Research, Patient Care, Training and Community Engagement.
- Most importantly, we understand the importance of philanthropy for cardiovascular research. Individual board member giving, foundation donations, and fund raising events netted $800,000 for the CVC over the last two years.

I’d like to thank all of our board members, as well as our Center Director, Dr. Ivor Benjamin, for being so committed to the importance of cardiovascular research at the Medical College of Wisconsin. I am truly grateful for being a part of this team.

I look forward to working with the new Chair of the Board, Lynnea Katz-Petteri who is a great visionary, and will lead the board to the next level of community engagement.

Bruce
Dr. Kalyanaraman Receives Outstanding Achievement Award

May 2, 2018 MCW News — CVC member, Balaraman Kalyanaraman, PhD, chair and professor of Biophysics and the Harry R. and Angeline E. Quadracci Professor in Parkinson’s Research, is one of eight Indian American scientists to receive this year’s outstanding achievement award from the Society of Asian American Scientists in Cancer Research (SAASCR).

The award ceremony took place during the American Association for Cancer Research’s annual meeting in Chicago on April 15. SAASCR President Rajvir Dahiya, PhD, presented the honors.

The scientists were recognized for their outstanding contributions to cancer research. More than 5,000 scientists from Asia, mainly of Indian origin, working in the United States and Canada in the field of cancer research, are members of the SAASCR.

CVC Member, Peter Newman, PhD, Receives NIH Outstanding Investigator Award

April 10, 2018 MCW News — Peter J. Newman, PhD, professor of pharmacology and toxicology at the Medical College of Wisconsin and vice president of research at the BloodCenter of Wisconsin, received the prestigious Outstanding Investigator Award from the National Heart, Lung and Blood Institute (NHLBI) of the National Institutes of Health (NIH). Dr. Newman is the sole Wisconsin scientist to receive award.

The NHLBI has awarded only 60 Outstanding Investigator Awards to scientists nationwide over the first two years of the program. This highly competitive award provides Dr. Newman and the six members of his laboratory team $7 million over seven years to advance understanding of how proteins on the surface of human blood platelets become unintentional targets of the immune system, which can lead to devastating bleeding disorders. The research will lead to new diagnostics and novel personalized medicine approaches to treating blood diseases.

The NHLBI Outstanding Investigator Award was created to promote scientific productivity and innovation by providing long-term support and increased flexibility to experienced Program Directors and Principal Investigators whose outstanding record of research demonstrates their ability to make major contributions to heart, lung, blood and sleep research. The award is intended to support a research program, rather than a research project, to promote scientific productivity and innovation by providing long-term support.

CVC Faculty Receive Special Honors at EB 2018

April 2018 — Congratulations to the following CVC faculty members who received special honors at this year’s Experimental Biology Meeting

- David Mattson, PhD, was honored with the Ernest H. Starling Distinguished Lectureship of the APS Water and Electrolyte Homeostasis Section
- David Gutterman, MD, was honored with the Landis Award Lectureship of the Microcirculatory Society
- Hubert Forster, PhD, was honored with the Julius H. Comroe, Jr. Distinguished Lectureship of the APS Respiration Section
- Andrew Greene, PhD, was honored with the Distinguished Lectureship in Physiological Omics Research

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Dr. Kalyanaraman Receives Outstanding Achievement Award

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The award ceremony took place during the American Association for Cancer Research’s annual meeting in Chicago on April 15. SAASCR President Rajvir Dahiya, PhD, presented the honors.

The scientists were recognized for their outstanding contributions to cancer research. More than 5,000 scientists from Asia, mainly of Indian origin, working in the United States and Canada in the field of cancer research, are members of the SAASCR.

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**Cardiovascular Center Seminars and Events**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>June 9</td>
<td>Have a Heart Motorcycle Ride</td>
<td>Suburban Motors Harley-Davidson, Thiensville</td>
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<td>June 12</td>
<td>“Crucial Conversations” Trainee Professional Development Seminar</td>
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<td>June 21</td>
<td>CVC Summer Student Welcome Breakfast</td>
<td>CVC Conference Room</td>
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<td>July 18</td>
<td>Kathryn E. Flynn, PhD CVC Seminar Series</td>
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<td>July 19</td>
<td>Heart of the Matter—Inaugural Food and Wine Event</td>
<td>The Atrium</td>
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<td>July 24</td>
<td>“Effective Teams and Group Decision Making” Trainee Professional Development Seminar</td>
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<tr>
<td>August 7</td>
<td>Julie Freed, MD, PhD CVC/Herma Heart Collaboration Seminar</td>
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During the recent Town Hall, Team CVC requested feedback from you, the CVC community members, on what the center can be doing to better serve our investigators and their research teams. This new portion of our newsletter will be used to let you know we’re listening!

**Feedback:** Publish a directory of CVC investigators, indicating research interests of each lab/PI

**Action:** A spreadsheet was distributed in May, listing all current CVC faculty members indicating research interests, current projects, models used, and location on campus. To receive a copy of the directory, please contact cvc@mcw.edu.

We welcome your questions, concerns, or feedback.

You can follow the Cardiovascular Center on Facebook!

**Medical College of Wisconsin Cardiovascular Center**

Stay up to date on what’s happening in the CVC, at MCW, and in the News!
Welcome!

<table>
<thead>
<tr>
<th>El-Sayed Ibrahim, PhD</th>
<th>Kevin Rarick, PhD</th>
<th>Noura Dabbouseh, MD</th>
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<td>assistant professor of radiology</td>
<td>assistant professor of pediatrics</td>
<td>assistant professor of medicine</td>
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<td>Dr. Ibrahim focuses on cardiovascular imaging, with an emphasis on magnetic resonance imaging (MRI), over the past 15 years in both academia and industry. Applications of his work include studying heart mechanics, myocardial viability, heart tissue characterization, flow hemodynamics, and vessel wall stiffness.</td>
<td>Dr. Rarick’s lab uses in vivo imaging and monitoring techniques for an integrative approach to investigate the physiologic regulation of cerebral blood flow and how these mechanisms are impacted by stroke and brain injury.</td>
<td>Dr. Dabbouseh’s interests lie in the genetics of disease, with a special interest in providing cardiac care for cancer patients and cancer survivors. In caring for this population of patients, she recognizes there is a tremendous opportunity to study what makes patients susceptible to cardiac disease either during or after cancer therapy.</td>
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<tr>
<th>Jason Jarzembowski, MD, PhD</th>
<th>Jeana Holt, DNP, MSN, APNP</th>
<th>Rodney Willoughby, MD</th>
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<tr>
<td>vice chair, associate professor of pathology</td>
<td>adjunct professor of family and community medicine</td>
<td>professor of pediatrics</td>
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<tr>
<td>Dr. Jarzembowski’s research interests center around two areas: the role of cardiac arrhythmias in sudden cardiac death in youth, especially as a subset of sudden infant death syndrome, and developmental anomalies of the heart.</td>
<td>Dr. Holt is interested in using implementation science methods to impact the health of vulnerable populations, specifically patients with hypertension. She is currently collaborating with several CVC investigators to develop research in this area.</td>
<td>Dr. Willoughby’s area of interest is in the investigation of metabolic consequences, including vascular physiology of infectious disease. He is especially interested in brain infections (rabies, bacterial meningitis, encephalitis) and hydrogen sulfide in septic shock (meningococcal) and brain abscess formation.</td>
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Vision

The Cardiovascular Center at the Medical College of Wisconsin aims to become the premier integrated basic and translational academic organization in the United States.

Mission

To improve cardiovascular health in Southeast Wisconsin and beyond through cutting-edge research, cost-efficient and high-quality healthcare delivery, rigorous training of the next generation of cardiovascular scientists, and engaging the community to eliminate disparities in health outcomes.

Credits

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For questions or additional information please contact the CVC at cvc@mcw.edu