THERE’S A NEW DEAN IN TOWN

NORMAN J. BEAUCHAMP JR, MD, MHS
FEATURES
There is a New Dean in Town ................................................. 4
ABLE Program 30th Anniversary ........................................... 10-15
Grand Rapids Research Center ............................................ 16
Student Research Presentations ........................................... 20
“Where in the World is Clinical Skills MD Sparty?” .................. 22
Korea Memorandum .......................................................... 24
AOA Inductees .................................................................. 26

RESEARCH
$10M NIH Grant Funds Collaborative Health Disparities Research
for Chronic Disease Prevention ............................................ 27
ROI on Neuroscience Research Investment ............................. 28
ECHO Study Addresses Environmental Influences on Child Health . 31
Slowing Parkinson’s Disease Progression ............................... 32
Grants Awarded .................................................................. 34

FACULTY
Faculty Appointments & Promotions .................................... 36
Awards & Achievements ..................................................... 38
Faculty Awards .................................................................. 40
Society for the Study of Reproduction Honors Asgi Fazleabas, PhD . 42
Retirements ...................................................................... 44

ADVANCEMENT
Endowed Scholarships ....................................................... 46
Mandarino Family Donates to MSU Neuroblastoma Research . 47

ALUMNI
Alumni Updates .................................................................. 48
The College of Human Medicine Receives National 2016 AAMC Spencer Foreman Award for Outstanding Community Service

The College of Human Medicine shined among peer medical schools at the November annual meeting for the Association of American Medical Colleges (AAMC). Two faculty, Wanda Lipscomb, PhD, and Brian Mavis, PhD, were honored with lifetime achievement awards, and the college brought home the AAMC’s coveted 2016 Spencer Foreman Award for Outstanding Community Service.

Aron Sousa, MD, the college’s senior associate dean for academic affairs and recent interim dean, called the Spencer Foreman award “a great honor for our people who do such a great job.”

“We are the first land grant university and one of the very first community-based medical colleges in the country,” he said. “We live in an environment of service to our communities, so it’s part and parcel of who we are. We not only train physicians and do research, we create a scientific safety net for our communities by working with community groups and leaders.”

In giving the award, the AAMC noted in particular the college’s work in exposing the toxic lead levels in Flint’s children due to contamination of the city’s water supply. The college was able to respond quickly to the water crisis because of its well-established presence in Flint.

To mitigate the health effects for Flint’s children, MSU and Hurley Children’s Hospital launched a Pediatric Public Health Initiative focusing on improved nutrition, expanded educational opportunities and targeted medical care.

(Continued on page 2)
The award, however, is in recognition not only of the college’s community service in Flint, but of its service statewide and beyond, including the Leadership in Medicine for the Underserved Program, the Rural Physician Program, based in the Upper Peninsula, and the college’s requirement that all students volunteer at nonprofit organizations, schools and other agencies.

Dr. Lipscomb, associate dean for student affairs and senior associate dean for diversity and inclusion, was presented the 2016 AAMC Group on Student Affairs Exemplary Service Award for her service to that organization.

Lipscomb said she was “humbled and honored” to receive the award.

“It is an award that comes from my colleagues across the nation who work on a daily basis to provide excellent services to medical students,” she said. “I enjoy the work I do in the field and the various projects I have participated in through the AAMC-GSA.”

Dr. Mavis, professor and chief of the Shared Discovery Curriculum Learning Societies, received the Merrell Flair Award in Medical Education, created to honor educators who have made major contributions “over a significant time period” to administering or communicating information about medical education in North America.

Mavis called the award “both amazing and humbling.”
“I have had the opportunity to work with so many talented and passionate educators from across the country,” he said. “I have learned so much, and I think we have done some good things for the medical education community. I also now have a network of colleagues from across the country and can call on them for ideas and support as we roll out our new curriculum. Easily, I have gained at least as much as I have given, and am very grateful that I have had the support of the college all along the way.”

“We live in an environment of service to our communities, so it’s part and parcel of who we are. We not only train physicians and do research, we create a scientific safety net for our communities by working with community groups and leaders.”

— Aron Sousa, MD
Senior associate dean for academic affairs
“What really defines the College of Human Medicine is it truly is compassionate and patient-centered. I would like to see us become a leader in the transformation of health care to make it more compassionate and more affordable.”

— Dean Norman J. Beauchamp Jr., MD, MHS

NORMAN J. BEAUCHAMP JR, MD, MHS
DEAN OF MICHIGAN STATE UNIVERSITY
COLLEGE OF HUMAN MEDICINE

Every Christmastime, Norman J. Beauchamp Jr. receives a card from a woman, a former patient he treated, a reminder of the profound difference a physician can make in a patient’s life.

It is a lesson that he, as the new dean of the College of Human Medicine, plans to impress upon his students: the positive impact they can have on the lives not only of individual patients but of entire populations.

While he has spent much of his career in research, treating patients is “what inspires you,” Beauchamp said. “What really defines the College of Human Medicine is it truly is compassionate and patient-centered. I would like to see us become a leader in the transformation of health care to make it more compassionate and more affordable.”

He recalled a quotation often attributed to Theodore Roosevelt: “People don't care how much you know until they know how much you care.”

Several years ago, when Beauchamp was on the faculty at the Johns Hopkins University School of Medicine, he received a phone call. While undergoing a dental procedure, a 37-year-old woman had suffered a stroke. With a blood clot blocking a vessel in her brain, she was paralyzed, unable to speak, move or do more than blink her eyes. Doctors at a Washington, D.C. hospital told her family there was nothing they could do.

But Beauchamp, a neurointerventional radiologist who had spent years studying ways of extending the treatment period for ischemic strokes, was willing to try, as long as she and her family understood the risks. After the woman was helicoptered to Johns Hopkins, he did a magnetic resonance image (MRI), confirming that the brain tissue around the clot was still viable. He then threaded a catheter through the blood vessels to her brain and injected a drug directly into the clot, dissolving it.

The woman walked out of the hospital.

Beauchamp has dedicated his career to researching better treatments for stroke and identifying risk factors to prevent it. As the new dean, he plans to continue growing the College of Human Medicine’s research program while building upon its tradition of graduating doctors who are passionate about caring for patients. Beauchamp (CHM ’90) himself is a product of that culture.

He believes that “Michigan State is poised to become a national leader in research,” and he would like to see the college’s patient-centered tradition and research portfolio “come together and create a cadre of physician/researchers,” he said.

Beauchamp’s own road to becoming a nationally recognized physician/researcher began at an early age, although he was unaware at the time where it would lead. When he was seven years old and the family was living in Boston, “my dad came home and said I was spoiled, and so was my brother,” he recalled. “He said we were moving to a farm in Michigan and we were going to raise cows, chickens and horses.”

Norman Beauchamp Sr., an electrical engineer who had designed computer programs for Saturn rockets and the Apollo missions, bought a farm near St. Johns, went back to school to become a CPA and joined the staff of the Michigan (Continued on page 6)
Auditor General. Every morning, he’d leave his sons a list of chores, and, when they had exhausted that, he would make up things for them to do.

“He just had this enormous work ethic,” Beauchamp said. “His feeling was if you were willing to work hard there was nothing you couldn’t accomplish.”

His mother, Anne Marie, a mental health social worker, taught her two sons and two daughters that “you’re here for a purpose,” he said. At the dinner table every evening, their parents impressed upon them that life’s most persistent and urgent question is, ‘what are you doing for others?’

His interest in the brain was piqued as an undergraduate in MSU’s Lyman Briggs College, when one of his professors, James Potchen, the first chair of MSU’s radiology department, showed him an MRI of a brain.

Beauchamp was accepted at three medical schools, but he chose the College of Human Medicine after he was offered a scholarship, a gift he vowed one day to repay.

After earning his medical degree, he did his radiology residency followed by fellowships in neuroradiology and neurointerventional radiology, all at Johns Hopkins, while finding time to earn a master’s degree in public health, also from Johns Hopkins.

In 1996, he joined the faculty at Johns Hopkins. At the time, the treatment window for ischemic stroke was three hours from the onset. After that, it was believed that dissolving or removing a clot risked causing a catastrophic brain bleed, because too much tissue would have died.
Beauchamp wondered how he could extend that treatment window to help more patients survive and avoid the debilitating effects of a stroke.

“Why stroke matters to me is it can take away the essence of who a person is – the ability to interact with children, grandchildren and others we love,” he said.

A Johns Hopkins physicist told Beauchamp of a recently discovered process called molecular self-diffusion that could detect the movement of water molecules in matter, but he was unsure of its practical use.

Beauchamp could think of one.

Using an MRI, he could detect the movement of water molecules in the brain tissue, showing if it was still alive and, therefore, whether it was safe to remove the clot, thus preserving more of the brain’s function.

As a result of his and other research, the treatment window for stroke is now four and a half hours.

The value of radiology, particularly MRI, in treating strokes became apparent, but he wondered, could it also be used as a tool for preventing strokes?

The research showed that changes in the brain’s deep white matter that previously had been considered a normal part of aging were, in fact, risk predictors for stroke, as well as for Alzheimer’s and other forms of dementia.

“Once you can understand what those risk predictors are, then you can prevent those diseases,” Beauchamp said.

In 2002, he left Johns Hopkins and was named chairman of the University of Washington’s Department of Radiology. He took on many other assignments, chairing the University of Washington Faculty Senate and managing the clinical practice of the 1,600 physicians employed by the university.

In 2014, he agreed to serve as medical director of a clinic to provide free vision, dental and medical care to uninsured, underinsured and undocumented residents of the Seattle area.

“We were told no one would show up,” he said.

Over four days, the volunteer physicians and others saw 4,000 patients, making it one of the largest free clinics in the nation. A second clinic was held in 2015, and a third in the fall of 2016.

By then, Beauchamp had assumed his new job, succeeding Marsha D. Rappley, MD, as dean of the College of Human Medicine. After a nationwide search, the MSU Board of Trustees voted to approve his appointment effective October 2016.

For Beauchamp, it is an opportunity to have a larger impact on improving health care, and it is time to keep a promise he made three decades before to pay back the scholarship he received.

“I felt I had brought together enough skills to run a medical school,” he said. “That’s where my search ultimately led me: back to Michigan State.”

Beauchamp said he plans to continue building on the community partnerships across the state that have made the College of Human Medicine a leader in medical research and education.

“I’d like to see us drive biotechnology here,” he said, sitting in his office in the Secchia Center, which didn’t exist when he was a student. “I would like Michigan State to be a partner with industry to develop the products and technology that make a difference in people’s lives.”

From his fourth-floor window, Beauchamp can see the college’s new Grand Rapids Research Center nearing completion a block away. Much has changed since he was a clinical student at nearby Blodgett Hospital.

“One of the things that was striking since I was here in 1990 was the transformation that shows this community is committed to health care and partnerships,” he said. “If the community is committed, there’s no end to what we can do.”

A few days later, MSU President Lou Anna Simon introduced Beauchamp to a group of supporters and community leaders, calling him “someone who can work in a community for the community and be a scholar,” while building a cutting-edge research program. Beauchamp, she said, “understands that research and medical education go together.”

Standing before the group, Beauchamp said: “My commitment to all of you is to give all I have to help realize the goals you all had in mind when you established a partnership that is unparalleled in the nation.

“I will need your help,” he said. “We will need your help. We will seek your guidance and your support. The need is great. The path is quite clear. Together we can do it for our patients, for our families, for our community, for our nation.”
THREE DECADES after the College of Human Medicine established a program to help disadvantaged students become physicians, a woman who helped create and still directs it issued a challenge to a banquet room full of her current and former students.

“You want to make me happy?” asked Wanda Lipscomb, PhD, director of the Advanced Baccalaureate Learning Experience (ABLE) program. “I want to go and Google you and see that you are doing something phenomenal, doing something in your community. I want you never to forget your roots. I want you always to give back.”

In fact, most are doing just that, providing medical care for thousands of underserved patients who otherwise wouldn't have it.

Catherine Toomer, MD (CHM ’96), is among three physicians caring for the residents of a rural South Carolina county, since its only hospital closed.

“My patients would not have me, had it not been for the ABLE program,” she said.

Since the ABLE program was founded in 1986, it has graduated 181 doctors. Sixty percent are caring for underserved populations. The largest number are practicing primary care, while others are in anesthesiology, emergency medicine, pathology, psychiatry and surgery.

Sixty-five students are currently enrolled in the College of Human Medicine or are completing a year of undergraduate and graduate classes to prepare for medical school.

“It gave me a great foundation,” said Crystal Jones, MD (CHM ’95), one of the first students admitted through the ABLE program and now a Detroit-area specialist in occupational medicine. “I think without the ABLE program, I might not be a doctor today.”

She and many other physicians and students admitted through ABLE gathered during alumni weekend for a dinner in recognition of its 30th anniversary, a testament to the success of the program.

“It's a wonderful milestone for the college,” said Lipscomb, senior associate dean for diversity and inclusion and associate dean for student affairs, adding that it fits with the college's mission of training doctors to care for underserved populations. “It’s the essence of who we are.”

Prospective students don’t apply directly to the ABLE program, but go through the regular admissions process. The admissions committee refers students to the ABLE program who meet admissions guidelines but are from disadvantaged backgrounds.

Those accepted into the program must complete a year of upper level undergraduate and graduate classes in basic sciences before starting medical school. After that, they must meet the same rigorous standards as all other medical students to become practicing physicians.

Joseph Goodman conceded that after years of living in Panama where his parents were missionaries, he lacked much of the cultural knowledge of other students when he applied to the College of Human Medicine.

“The truth is I did need a little remediation because of my study skills,” said Goodman, MD (CHM ’07). “It opened my

(Continued on page 12)
SINCE MSU ESTABLISHED THE ADVANCED BACCALAUREATE LEARNING EXPERIENCE (ABLE) PROGRAM IN 1986, 181 STUDENTS HAVE SUCCESSFULLY COMPLETED THE PROGRAM.

FORTY-FIVE PERCENT OF ABLE GRADUATES ARE PRACTICING IN THE MIDWEST, 25 PERCENT IN THE WEST, 25 PERCENT IN THE SOUTH AND 5 PERCENT IN THE NORTHEAST.

CURRENTLY 65 ABLE STUDENTS ARE ENROLLED IN THE COLLEGE OF HUMAN MEDICINE.
mind that there are a lot of people who struggle, but who have potential. I think it really was the best opportunity that I’ve ever been given.”

Today he is a head and neck surgeon at Walter Reed National Military Medical Center in Bethesda, Maryland.

Martin Romero, MD (CHM ’03), is vice-chair of Sparrow Hospital’s emergency department and a clinical professor in the College of Human Medicine. Nearly two decades ago, he was working for an airline in California and dreamed of becoming a doctor. He applied to medical schools and was provisionally accepted in the College of Human Medicine, as long as he successfully completed a year in the ABLE program. So, at the age of 35, he packed up his family, including two children, two dogs and four cats, and drove across the country to begin his studies.

“As a nontraditional student, I knew a lot of places wouldn’t consider me, because I was older,” Romero said. “Oh, it was phenomenal. I always knew medicine was what I wanted to do.”

Toward the back of the banquet room, 15 students, now in the ABLE program and planning to start medical school next year, sat at two tables, listening to those who once were where they are and now are physicians.

For Ghufraan Akram, their words were inspiring. In his early 20s, he was CEO of a clinic in Detroit serving the neediest of patients. He saw how much his clinic depended on physicians willing to care for indigent patients, so he decided to apply to medical school.
“People would come in who had nowhere else to go,” he said. “I want to go back to Detroit. I’ve grown to understand the value of just one physician. That’s my motivation.”

Much of the credit for attracting such students goes to the administrators who had the vision to create the ABLE program, as well as to the faculty, staff and students who have kept it going for 30 years, Lipscomb said.

“Everyone in this room is family,” she told the alumni and students. “I want each one of you to harness the gift that God gave you. It doesn’t matter where you started from; it matters where you’re going and what you’re doing. This is what family is all about.”

ABLE FACTS

FORTY-FOUR PERCENT ARE IN PRIMARY CARE, WHILE OTHERS ARE IN A RANGE OF SPECIALTIES, INCLUDING ANESTHESIOLOGY, EMERGENCY MEDICINE, PATHOLOGY, PSYCHIATRY AND SURGERY.

MORE THAN 60 PERCENT PROVIDE CARE TO UNDERSERVED POPULATIONS.
As a child, back when she often translated for her mother during doctor appointments, Yvette Padilla began nurturing a dream: she wanted to become a doctor.

Considering her family’s low income, college – let alone medical school – seemed less of a dream and more of a fantasy. Yet today Padilla is a physician caring for underserved patients in her hometown. She wouldn’t be doing that, she insists, were it not for the College of Human Medicine’s ABLE (Advanced Baccalaureate Learning Experience) program.

Thirty years after the college created the program, two studies have confirmed ABLE is achieving its goals of helping disadvantaged students enroll in medical schools and become physicians caring for underserved populations.

A 2009 study co-authored by Wanda Lipscomb, PhD, found that more than half the program’s graduates chose to practice primary care, which is in keeping with the college’s mission of training more doctors to meet a looming shortage of primary care physicians. Of the students enrolled in the program between 1991 and 2008, 63 percent were African American, and 28 percent were Hispanic, the study found. Sixty-three percent were women.

A second study published in August 2015 found that graduates of ABLE and similar programs at nine other medical schools “serve a critical role in providing access to care for underserved populations and serve as a source for health care workforce diversity.”

Creating a workforce of physicians that ethnically and culturally mirrors the population is important, because patients often feel more comfortable with doctors from backgrounds similar to their own, said Brian Mavis, PhD, who helped conduct both studies. As a result, previously underserved patients are receiving better health care, he said.

“It’s working,” Mavis said. The studies verify that ABLE and similar programs are “successful in creating a more diverse class of medical students, and they are becoming a more diverse group of physicians practicing medicine.”

Yvette Padilla is typical of the kind of doctors the ABLE program is supposed to produce.

Neither of her parents, both from Mexico, spoke much English, and neither had finished high school. They set higher
goals for their children. After graduating from UCLA, Padilla enrolled in a graduate program for physician assistants, but she still felt the lure to become a medical doctor. When she began researching medical schools, the College of Human Medicine’s “ABLE program really reached out to me,” she said.

After completing the required year of science classes, she began her medical studies in 2007. Being thousands of miles from her family wasn’t easy, she said, but the encouragement she received from Lipscomb and others was invaluable.

“I felt like they were my family away from home,” Padilla said. “I remember Mrs. Green gave us tips on cooking. She would even give us recipes.”

Padilla received a National Health Service Corps (NHSC) scholarship, which paid her last two years of medical school with the understanding that she would practice medicine for two years in an underserved area.

In June 2015, Padilla completed her residency in obstetrics and gynecology at the Harbor UCLA Medical Center near Los Angeles. That same month, after daylong study sessions, she took the written exam to become board certified in her specialty. In September 2015, she learned she had passed.

At Padilla’s urging, the U.S. Department of Health and Human Services, which administers the NHSC scholarships, recognized Clinicas del Camino Real in her hometown, Santa Paula, Calif., as a facility that cares for underserved patients. That’s where Padilla set up her practice and where she plans to remain even after completing the required two years.

“It was because of the College of Human Medicine that I was able to realize my dream,” she said. “Now I’m back in my own community, close to my family and serving the people here. It’s a dream come true.

“I just want to say that I’m very grateful to Michigan State, and I hope they’re proud of the work I’m doing in this community.”

“Of course we’re extremely proud of what she’s doing,” Lipscomb said. “She’s really a good example of someone who has gone full circle. She never forgot where she came from.”
COMMUNITY SUPPORT DRIVES BIOMEDICAL RESEARCH CENTER COMPLETION
“THE GRAND RAPIDS RESEARCH CENTER WILL BE AN ECONOMIC ENGINE FOR THIS COMMUNITY. GRAND RAPIDS NEEDS TO GET BEHIND IT BECAUSE IT’S GOING TO BE ANOTHER PART OF THE PUZZLE TO MAKE GRAND RAPIDS AN EXCITING, VIBRANT CITY.”

— Peter F. Secchia (MSU ’63)
DEAN NORMAN J. BEAUCHAMP JR., has no doubt about the importance of philanthropy in helping the college expand its educational, clinical and research capabilities.

“It’s essential,” he said. “We wouldn’t be able to deliver it without the support of the Grand Rapids community.”

Charitable donations helped build the Secchia Center, the College of Human Medicine’s $90 million, privately-funded headquarters in downtown Grand Rapids, and the college is counting on similar support to complete the MSU Grand Rapids Research Center.

Through its Empower Extraordinary campaign launched in 2014, the college is seeking the last $18 million of its $40 million fundraising goal to finish the $88.1 million MSU Grand Rapids Research Center, scheduled to open late this year. In May 2016, the college received gifts of $15 million – $10 million from Richard and Helen DeVos and $5 million from Peter and Joan Secchia – for the research center.

“It brings added magic to the Medical Mile,” said Peter Secchia, who also was lead donor for the Secchia Center. “The city of Grand Rapids will be host to the newest center in the Big Ten Academic Alliance which includes all 14 Big Ten schools plus collaboration with the University of Chicago.”

With enough laboratory and office space to support a capacity of 260 members of 33 research teams upon opening, the center already is helping the college recruit some of the country’s top medical researchers, Beauchamp said. Those teams will work in a broad range of areas, including autism, inflammation, transplantation, cancer, genetics, pediatric neurology, Parkinson’s disease, Alzheimer’s disease and women’s health and reproductive medicine.

In future years when the center is fully operational, it will support 44 principal investigators and their teams – and will contribute to local economic development by generating nearly 400 jobs in the Grand Rapids area.

For Michigan residents, the research center “raises the bar for the quality of care in a very significant way,” Beauchamp said, bringing together MSU scientists, faculty physicians and other clinicians and researchers from MSU’s partner institutions.

“I have found when I meet with so many people in the community who have accumulated assets, they want to make a difference in the world,” Beauchamp said. “Ultimately, people want to raise their families where they know they will get the best care. At the same time, they get excited because they’re helping with the local economy.”

The research center will be “a magnet for biotechnology jobs,” Beauchamp predicted, attracting not only the highly educated scientists who will work in the center, but employees in new, spinoff businesses. A study by the Anderson Economic Group estimated, in future years, the research center will generate more than $28 million in local annual spending.

Secchia, a 1963 MSU College of Business graduate, agreed that the Grand Rapids Research Center will be “an economic engine for this community. Grand Rapids needs to get behind it, because it’s going to be another part of the puzzle to make Grand Rapids an exciting, vibrant city,” he said.

The benefits, he added, will spread well beyond the research center’s Grand Rapids base, with new discoveries helping the rest of the state and nation medically and economically.

The residents of Michigan always have stepped forward to support the College of Human Medicine. Grand Rapids in particular often is cited as one of the most philanthropic communities in the nation.

“That’s what built this magnificent Medical Mile,” Secchia said. There is hardly a family not involved with MSU, Van Andel Institute, Spectrum Health, Mercy Health Saint Mary’s or Grand Valley State University in some way.”
STUDENTS EXPLORE MEDICAL RESEARCH THROUGH PROJECTS IN MICHIGAN AND A

When she enrolled in the College of Human Medicine, Emmanuella Joseph didn't think she was interested in conducting research.

“I thought it was boring, honestly,” she said.

That was before she spent part of the summer of 2016, between her first and second years of medical school, studying the use of iPads to help stroke victims overcome aphasia.

“I was able to see medicine from a different perspective,” Joseph said. “Now I say, ‘Do I have time to do another study?’ It’s gone from boring to exciting. I’m excited to understand the different areas of research and how much they affect medicine.”

That’s one of the goals of the annual Medical Student Research Presentations, said Mark Trottier, PhD, the college’s student research director. Spending a few weeks between semesters immersed in a study gives students a taste of research techniques, helps them think analytically and, ultimately, makes them better physicians, he said. It also burnishes their résumés, helping them land prime residencies after graduation.

Some likely will combine clinical practices with research, which will help them keep up with the rapid changes in medicine.

“We encourage our students to do research of all kinds,” Trottier said. “I think it’s absolutely necessary for students to have that curiosity.”

The projects tackled by 16 students in Grand Rapids and East Lansing, each supported by a research scholar-ship, included pediatric brain tumors, HIV, maternity health, breast cancer and health care for immigrants.

Some worked close to home. Others traveled as far as South Africa and Norway.

“What struck me is they were all over the place, geographically and topically,” Trottier said. “Some had global impact, trying to stem the spread of HIV in Africa, helping immigrants in Norway, while other projects were at the cell and molecular level.”

In mid-October, the students presented their findings via a video conference between the East Lansing and Grand Rapids campuses.

“This was my first opportunity to create a research proposal,” said Rohit Nallani, adding that it helped him “understand how I can be a better physician for my patients in the future.”

Mukti Patel’s research into gynecologic cancer “was a great confirmation of my interest in the OB/GYN field,” she said. “I hope to continue in this field.”

In Norway, five students (Megan Masten, Andrea Kubicki, Kirsten Salmela, Reena Pullukat and Haben Debessai) looked for the barriers that prevent an influx of immigrants from getting medical treatment, even though the country has a universal health care system.

“It’s a global issue,” Debessai said. “People are moving across the world more than at any other time. To me that was a very valuable lesson.”

It’s a lesson the five students carried back to MSU, where they plan to undertake a similar study of the health care barriers immigrants face in this country.
Leyu Chiu received the Maureen K. Burrill Memorial Fund for Breast Cancer Research Scholarship to study a possible treatment for triple negative breast cancer. Her mentor was Chengfeng Yang, MD/PhD, associate professor in the Department of Physiology.

Haben Debessai, Andrea Kubicki, Megan Masten, Reena Pullukat and Kirsten Salmela received an Innovation Research Scholarship for their study of health care for immigrants in Norway. Their mentor was Samera Qureshi, MD/PhD, from the Norwegian Centre for Minority Health Research.

Connor Greer received an Oncology Research Scholarship to study treatments for neuroblastoma. His mentor was André Bachmann, PhD, professor in the Department of Pediatrics and Human Development.

Emmanuella Joseph received the Michigan State University Federal Credit Union Dean’s Choice Grant Award to study the use of iPads for stroke patients suffering aphasia. Her mentor was Muhammad Farooq, MD, at Mercy Health Saint Mary’s.

Adam Kudirka received an Oncology Research Scholarship to study gene regulation in neuroblastoma cells. His mentor was André Bachmann, PhD, professor in the Department of Pediatrics and Human Development.

Rohit Nallani received an Innovation Research Scholarship to study treatment decisions by rheumatoid arthritis patients. His mentor was Richard Martin, MD, a professor in the Department of Medicine.

Haidang Nguyen received an Innovation Research Scholarship to study the disparity in HIV treatment between black and white residents of South Africa. His mentor was Refilwe Nancy Phaswana-Mafuya, PhD, director of SAHARA, Human Sciences Research Council in South Africa.

Ben Nicholson received an Oncology Research Scholarship to study a pediatric cancer called desmoplastic small round cell tumor. His mentor was Patrick Grohar, MD/PhD, of the Van Andel Institute.

Jason Nosrati received an Oncology Research Scholarship to study radiation therapy for intercranial germinoma. His mentor was Kenneth Wong, MD, of the Children’s Hospital of Los Angeles.

Mukti Patel received an Oncology Research Scholarship to study gynecologic cancers. Her mentor was Ira Seth Winer, MD/PhD, at the Karmanos Cancer Institute in Detroit.

Joseph Perosky received an Innovation Research Scholarship to study maternity health care in Nigeria. His mentor was Jody Lori, PhD, of the University of Michigan and the Bong County, Liberia, Health Department.

Trista Rosing received a Neurology Research Scholarship to study tests to measure cognitive impairment due to brain tumors. Her mentor was Todd Vitaz, MD, of the Spectrum Health Medical Group.
In 2012, two medical students, Chris Riedinger and Dan Hess, were featured on the cover of MD Magazine holding College of Human Medicine t-shirts at the top of Mt. Kilimanjaro. It inspired John McClain, another medical student, to pursue the idea of creating a College of Human Medicine “summit flag” displaying the Spartan helmet. In 2014, his idea took hold and McClain carried the first summit flag to the top of Mt. Baker in Washington. With the support of Patricia Brewer, PhD, assistant director of Block II and problem based learning, and Phil Van Lente, MD, education specialist for preclinical and clinical studies, the program continued to grow. The college now has 40 flags available for students to bring on mission trips, vacations, summer internships etc. These photos represent just a few of the many places around the globe these summit flags traveled last year.
After two years of discussion, the College of Human Medicine and a South Korean university and medical center have agreed to collaborate on research into women's reproductive health and exchange faculty and students.

Dean Norman Beauchamp Jr. called the agreement “a tremendous opportunity,” adding that “MSU is a place where we can have a global impact.”

The memorandum of understanding between MSU and CHA Gangnam Medical Center and CHA University in Seoul, South Korea, was signed in the spring and commemorated during an October 13 ceremony in Grand Rapids attended by representatives of all three institutions.

“The research and training interests of the researchers at CHA University and MSU are aligned in many ways,” said Richard Leach, MD, chair of the College of Human Medicine Department of Obstetrics, Gynecology & Reproductive Biology. “One of our goals at MSU is to extend our research across the globe.”

Officials of the two universities began discussing the agreement two years ago during the annual convention of the Society for the Study of Reproduction hosted by the College of Human Medicine in Grand Rapids.

“We wanted to have a collaboration,” said Dong Ryul Lee, PhD, a professor of biomedical science at CHA University and director of its Fertility Center. “MSU is very famous and has a very good program, especially in reproduction.”

Under the agreement, scientists at MSU and CHA University will share technology and collaborate on reproductive research. Lee and three other CHA professors were named College of Human Medicine adjunct faculty. In return, CHA granted the same status to Leach and three other MSU faculty members: Asgi Fazleabas, PhD, Jae-Wook Jeong, PhD, and Tae Hoon Kim, PhD.

The agreement is the second that MSU has signed with a South Korean university. In November 2014, MSU and Seoul National University signed a memorandum of understanding to exchange students and collaborate on research into women’s health.
SCIENTISTS AT MICHIGAN STATE UNIVERSITY AND CHA UNIVERSITY COLLABORATE ON WOMEN’S REPRODUCTIVE HEALTH RESEARCH

BACK ROW (LEFT TO RIGHT): SUNG HAN SHIM, ASGI FAZLEABAS, NIRA JOSHI, JAEGOOK JEONG, NORMAN BEAUCHAMP, TAE KI YOON, RICHARD LEACH, DONG RYUL LEE, HAENGSEOK SONG, YOUNGSOK CHOI, TAEHOON KIM. FRONT ROW: KYUNGRYUNG KIM, HYUNJI KIM, MIJIN LEE, SOOJIN LEE, HYUNJOO JO, MINHA JO.
In November, 46 College of Human Medicine students, residents, faculty and alumni were inducted into the Alpha Omega Alpha Honor Medical Society Gamma Chapter.

ALUMNI: Kent Johnson, MD, FACP, FAAP; William Young Jr, MD, MSc, ELS
FACULTY: Randolph Pearson, MD, FAAFP, FACSM; Supratik Rayamajhi, MD, FACP
RESIDENTS: Nicole Albrecht Dawis, MD; Jennifer Carroll, MD; Brian Grondahl, DO; Ra’ad Haddad, MD; Manjunath Raju, MD
STUDENTS: Apoorva Aekka, Andrew Benintende, Anne Broad, Vishnu Chander, Stephanie Chapman, Karalyne Cousins, Timothy DeKoninck, Michael Duhaime, Nicholas Elliott, Chad Gier, Virginia-Arlene Go, Michael Hicks, Jared Johnson, Anne Jones, Elle Kalbfell, Michelle King, Michael Klingler, Andrew LaCombe, Jillian Lapinski, Daniel Meister, Jennifer Monacelli, Chad Parkes, Trevor Peterson, Garrett Roe, Kevin Sandhu, Jessica Saunders, Donald Scholten II, Maria Tecos, William TenBrink, Jr, Marco Tori, Chelsea Uganski, Marielle VanderVennen, Colleen Victor, Abigail Wenzlick, Thomas Wenzlick, Georgia Wheeldon, and Nicholas Yedlin.
DEBRA FURR-HOLDEN, PHD, Charles Steward Mott Endowed Professor, received $10M in funding from the National Institute on Minority Health and Health Disparities (NIMHD), part of NIH, to establish a Transdisciplinary Collaborative Center (TCC) for health disparities research on chronic disease prevention in Flint.

MSU College of Human Medicine was joined by Washington State University as the first two designated TCCs in the country. The two centers will concentrate their research efforts on development, implementation, and dissemination of community-based, multilevel interventions to combat chronic diseases such as heart disease, cancer and diabetes. The centers will share approximately $20 million in funding over five years.

The Flint TCC includes active collaborations among the following: core academic faculty from the College of Human Medicine Public Health Division, University of Michigan-Flint and UM-Ann Arbor; lead consortium partner, the Flint-based Community Based Organization Partners (CBOP); national consortium partners, the National Collaborative for Health Equity and the National Association for the Advancement of Colored People (NAACP); and local partners Genesee County Health Department, Genesee County Land Bank, Flint Odyssey House, Inc., Bridges into the Future, Community Outreach for Families and Youth (COFY) Center, the Greater Flint Health Coalition, the Wellness AIDS Services and others.

Co-investigators for the Flint TCC include Division of Public Health researchers Jennifer Johnson, PhD, Charles Stewart Mott endowed professor, Richard Sadler, PhD, assistant professor, and Woody Neighbors, PhD, Charles Stewart Mott endowed professor.

“Involving different stakeholders and ensuring community engagement, the new TCC program will create synergized methods to build a healthy community for health disparity populations.”

— Dr. Xinzhi Zhang
NIMHD program officer
SIX YEARS AFTER MERCY HEALTH SAINT MARY’S and the Michigan State University College of Human Medicine formed an alliance to fight Parkinson’s and other neurological diseases, the investment is paying off.

Basic scientific studies funded by the Saint Mary’s Foundation have led to better understanding of those diseases and spawned additional research and the potential for clinical trials into new and better treatments. The alliance has promoted “translational research,” bridging the gap between the laboratories at MSU and the clinics where Saint Mary’s physicians treat their patients.

“The fact that we have the medical school here is a huge benefit,” said Philip B. Gorelick, MD, medical director of the Mercy Health Saint Mary’s Hauenstein Neuroscience Center in Grand Rapids. “We’re working toward a common goal with our partners at MSU. They create the basic science; we carry out the clinical translational part of the basic science.”

Without the support of Mercy Health Saint Mary’s, much of the research “wouldn’t have happened,” said Jack W. Lipton, PhD, chair of the College of Human Medicine’s Department of Translational Science & Molecular Medicine. “Beyond the support that we get from the NIH (National Institutes of Health) and the university, our department’s strategic relationship with Saint Mary’s has been the most critical component of our continued success.”

The partnership already has produced research into repurposing a common antidepressant drug to slow the progress of Parkinson’s, a finding that soon could lead to clinical trials with patients.

Another study of a genetic variation is underway to help physicians determine which Parkinson’s patients are most likely to respond favorably to a particular treatment, including deep brain stimulation surgery.

With support from the Saint Mary’s Foundation, MSU researchers are studying whether a protein tied to brain degeneration in Parkinson’s patients also causes them to suffer gastrointestinal dysfunction.

In August, the Saint Mary’s Foundation approved a grant for a feasibility study into establishing a repository for brain tissue, which MSU researchers and Saint Mary’s physicians could use in the quest for better treatments for Alzheimer’s, Parkinson’s and other neurological diseases.
Over the past five years, the Saint Mary’s Foundation has approved grants that, among other things, have allowed the College of Human Medicine to hire junior faculty members and support their research. Government agencies, such as the NIH, are reluctant to fund medical studies that haven’t shown some promise through basic research. The Saint Mary’s Foundation grants have allowed the MSU scientists to gather enough data to qualify for larger government grants to further their research.

“That’s why we do this, to allow them (MSU’s researchers) to get started so they can get enough pilot data so they can qualify for further NIH funding,” said Sister M. Rosita Schiller, senior research and grants specialist at the Saint Mary’s Foundation. “The one requirement is that they benefit Saint Mary’s patients.”

Since 2012, the Foundation has approved seven grants for MSU’s researchers totaling more than $300,000. The studies supported by those grants have led to more than $4.5 million in additional funding from government and private agencies, with much more still in the pipeline.

“I think the return on investment has been huge for us,” said Susan Hoppough, PhD, executive director for research and innovation at Mercy Health Saint Mary’s. “The more we can do these studies, the more it benefits our patients.”

William Baer, MD, Mercy Health Saint Mary’s medical director for research, added: “I think for donors that’s what they’d like to see, that the investment they’re making at Saint Mary’s is advancing science.”

Since the partnership was formed, the researchers have published some 50 studies in medical journals, raising the profiles of both institutions nationally.

“We have a strong national reputation in Parkinson’s and Alzheimer’s disease research here in Grand Rapids that makes people want to work with our teams,” Lipton said, “and the continued support from Saint Mary’s has made that possible.”

Similarly, by allowing physicians to treat patients while engaging in research, the alliance has helped Saint Mary’s recruit highly skilled neurologists and other specialists. Several Saint Mary’s physicians have faculty appointments in the College of Human Medicine.

“The benefit for the patients is that we’re working in close association with the researchers at MSU so we can help bring the treatments to our patients,” David Baumgartner, MD, Saint Mary’s chief medical officer, said. “It’s that kind of collaboration that ultimately will help us find a cure.”

Much of the credit, he said, belongs to Ralph Hauenstein, the late philanthropist whose generosity and vision allowed Saint Mary’s to establish the neuroscience center bearing his name.

“This is a wonderful legacy of Ralph’s,” Baumgartner said. “He cared deeply about people suffering from these chronic, debilitating diseases. This is Ralph living on in all of this work.”

(Continued on page 30)
The following is a detailed description of studies resulting from the partnership between Mercy Health Saint Mary’s and the Michigan State University College of Human Medicine:

**FIGHTING NEUROLOGICAL DISEASES TOGETHER**

Fredric Manfredsson, one of the first MSU scientists sponsored by Mercy Health Saint Mary’s, received two Saint Mary’s Foundation grants totaling $90,000 to study constipation, which is common among Parkinson’s patients. His research showed that alpha-synuclein, the same protein that attacks neurons in the brains of Parkinson’s patients, also causes gastrointestinal dysfunction. As a result of his basic research funded by the Saint Mary’s Foundation, Manfredsson received grants from the National Institutes of Health and the Department of Defense totaling $2.2 million to further support his studies.

In August, the Saint Mary’s Foundation approved a $25,000 grant to study the feasibility of establishing a Saint Mary’s-MSU biobank to hold post-mortem brain tissue for the study of neurological diseases. Under the pilot program, the bank initially will focus on Alzheimer’s and other forms of dementia, but eventually could expand to Parkinson’s and other neurological diseases, said Scott Counts, PhD, an associate professor of Translational Science & Molecular Medicine, who is overseeing the pilot program. The biobank would be a valuable resource for researchers and physicians seeking better treatments and cures for a range of neurological diseases, said Counts, whose work is supported by Saint Mary’s.

College of Human Medicine researchers and Saint Mary’s physicians are studying the potential repurposing of a common antidepressant drug called nortriptyline to slow the progress of Parkinson’s disease. With funding from the Saint Mary’s Foundation, MSU researchers showed that nortriptyline interferes with the accumulation of alpha-synuclein, slowing or halting the progress of degeneration in laboratory models of Parkinson’s disease. Based on that finding, the team was awarded a $2.4 million National Institutes of Health grant to continue preclinical studies. Additionally, the researchers plan to apply for an NIH grant for a phase II clinical trial with Parkinson’s patients, including some at Saint Mary’s. “It’s not a cure, but it’s likely to slow down the progression of Parkinson’s,” said Timothy Collier, PhD, the Edwin A. Brophy Endowed Professor of Central Nervous System Disorders and professor of Translational Science & Molecular Medicine at MSU. He and Barbara Pickut, MD, MPH, medical director of the Parkinson’s and Movement Disorders Program in the Mercy Health Saint Mary’s Hauenstein Neuroscience Center, are working together on the nortriptyline study. Without Saint Mary's support, the research "wouldn't have gotten off the ground," Collier said.

Another study by MSU researchers and Saint Mary’s physicians is aimed at learning why some Parkinson’s patients respond better to deep brain stimulation surgery than others. That study, supported by the Saint Mary’s Foundation, will compare how well Parkinson’s patients with a certain genetic variant benefit from the surgery compared with those who don’t have the variant. About 40 percent of the population carries that variant, which appears to reduce the amount of a protein (called brain derived neurotropic factor) that helps protect the neurons that typically die in Parkinson’s patients. John Goudreau, DO, PhD, an associate professor of neurology at MSU, and Saint Mary’s Barbara Pickut, have been collecting saliva samples from their patients for genetic testing by Caryl Sortwell, PhD, MSU neuroscience professor. “What we want to know is whether deep brain stimulation surgery is going to be an effective treatment option” for patients who have the genetic variant, Sortwell said, a finding that would be impossible without the Saint Mary’s partnership. “We need to have feedback from clinicians to know what would improve that patient’s quality of life,” Sortwell said. Pickut said the partnership is invaluable in helping improve treatment for her patients and individualizing their care. “This kind of work has put us on the map,” she said. “People in this area are well-informed and want us to offer cutting-edge treatments.”
WHEN CHILDREN DEVELOP HEALTH PROBLEMS such as asthma, obesity and neurological disorders, their parents and physicians, naturally, wonder what caused them and how they could have been prevented. “How much progress has been made in preventing those disorders?” asked Nigel Paneth, MD, a Michigan State University Distinguished Professor of epidemiology and biostatistics in the College of Human Medicine. “The answer is zero.” He hopes to change that.

Armed with a $4.8 million grant from the National Institutes of Health (NIH), Paneth and colleagues from two other Michigan universities, a leading health care system and a state health agency will investigate how exposure to a range of environmental factors in early development affect the health of young children and adolescents. In November, MSU received another $500,000 from the Michigan Health Endowment Fund to identify key risk factors to prevent adverse outcomes in pregnant women.

The goal is to gather enough data from pregnant women in Michigan to help state and local public health officials develop programs and policies to improve the health of mothers and their children, Paneth said.

While some diseases likely are caused by exposure after a child is born, “probably a lot of them have to do with what happened in the womb,” he said. “That means we have to do a large-scale collection of data during pregnancy and soon after birth.”

The NIH grant will cover the first two years of a seven-year study. Researchers at the University of Michigan, Wayne State University, Henry Ford Health System and the Michigan Department of Health and Human Services will join MSU in gathering and analyzing data.

The Michigan project is part of a larger national Environmental Influences on Child Health Outcomes, or ECHO, study that is expected to include more than 50,000 children from diverse racial, geographic and socioeconomic backgrounds.

The Michigan researchers plan to enroll some 2,000 children and gather data from 10 hospitals and 20 clinics throughout Michigan's Lower Peninsula. The researchers will interview pregnant women, covering such topics as nutrition, stress and economic status, and they will collect blood and urine samples from the women to identify environmental exposures that could affect the health of their children after delivery.

The researchers will follow up with home visits when the children are 2, 4, 6 and 8 years old, Paneth said, and they will seek data from an archive of some four million blood spots collected from children born in Michigan since 1987.

“You can get a lot of information from those blood spots,” Paneth, a pediatrician, said, adding that possible causes of childhood health problems likely include inadequate nutrition and exposure to toxins and viral infections before birth. Insufficient iodine levels in mothers, for example, is believed to lead to lower IQs in their children, since iodine is needed to produce a thyroid hormone that is essential to neuro development, he said.

“The goal is to find the causes of some preventable childhood diseases,” said Paneth, one of five principle investigators for the Michigan phase of the ECHO study. “The next step would be to do some interventions to see what works” at preventing the health problems.
A few years ago, Jeff MacKeigan, a scientist at Van Andel Research Institute (VARI), came across research suggesting that a drug used in Japan for treating a blood vessel condition may also be effective in fighting Parkinson’s disease.

Since he was not a specialist in Parkinson’s research, he needed a partner. He found her close by: Caryl Sortwell, a Michigan State University (MSU) College of Human Medicine scientist who has spent her career unraveling the mysteries of Parkinson’s.

Thus was born a collaboration between two scientists at two different research institutions, a partnership that has spanned nearly six years.

Sortwell is part of a team of Parkinson’s disease scientists who joined MSU in 2009.

“We were excited when the Michigan State Parkinson’s team came here,” said MacKeigan, who joined VARI three years earlier.

Several MSU labs, including Sortwell’s, are housed within the VARI while the university builds its new Grand Rapids Research Center down the street.

Being nearby helps, but MacKeigan and Sortwell’s collaboration works thanks in large part to their complementary backgrounds and expertise. His doctoral degree is in microbiology and immunology. Hers is in neurobiology. His expertise is in discovering targets in diseased cells and then looking for existing drugs that can be repurposed to hit those targets. She specializes in Parkinson’s disease research and investigates the molecular mechanisms underlying the disease in order to develop new therapies.
“Diverse viewpoints are one of the benefits of team science, of two people working together, looking at the same problem from different perspectives to achieve the same goals,” MacKeigan said.

Sortwell added: “You have to be willing to admit what you don’t know. You have to trust, too. We don’t take a step without consulting with each other.”

The focus of their collaboration is a drug called fasudil, which for 20 years has been used in Japan for treating blood vessel spasms in the brain. Through extensive and rigorous research, Sortwell and MacKeigan have shown that fasudil also targets some of the processes in the brain that are closely linked with Parkinson’s, a neurodegenerative disease that afflicts nearly one million patients in the U.S. and 10 million worldwide, a number that is expected to increase as the baby boomer generation ages.

“We know a tremendous amount about that drug (fasudil),” MacKeigan said, referring to its long history of use in Japan. “We knew its pharmacokinetics and safety profile in patients.”

In the past six years, The Michael J. Fox Foundation for Parkinson’s Research has awarded Sortwell and MacKeigan three grants totaling $600,980 to study whether fasudil can be repurposed as a treatment for Parkinson’s. Their first grant supported work to gather evidence that the drug protects neurons in pre-clinical models of the disease.

“That was the first phase,” Sortwell said, “and those results turned out to be very promising.”

Under the second grant, the two studied how the drug enters the brain, how long a dose works and whether it hits the target in the brain with little or no side effects. With the third grant, which was awarded in 2016, they are gathering data to request specific feedback from the U.S. Food and Drug Administration to understand what will be required to approve fasudil as an “Investigational New Drug,” the first step in a long process toward clinical trials with human patients.

“Parkinson’s disease is a combination of multiple insults to the brain,” Sortwell said. “The beauty of fasudil is it has the potential to work on a number of these different insults.”

The drug appears to prevent the inflammation that results when the brain’s immune cells, called microglia, attack diseased dopamine-producing neurons. As Parkinson’s progresses, these vital cells are lost, leading to a decrease in dopamine, a neurotransmitter that is vital for smooth movement. While the inflammation is a natural immune response, in Parkinson’s it actually may contribute to the disease process.

“We have the most evidence for fasudil preventing neuro-inflammation,” Sortwell said.

In addition to combating inflammation, “we believe fasudil also might directly protect the neurons,” MacKeigan said. “You want to stop neuron degeneration immediately.”

Parkinson’s disease’s hallmark symptoms — rigidity, loss of voluntary movement and tremor, for example — occur after a large number of these neurons are lost. There currently are no approved drugs that slow or stop the death of these crucial cells.

While fasudil is not seen as a cure for Parkinson’s, it has the potential to significantly slow the disease, prolonging the length of time that other drugs can effectively control its symptoms and possibly allowing patients to outlive the disease, he said.

“We’re trying to halt the disease’s progress,” MacKeigan said, “but if we also can extend the efficacy of current Parkinson’s drugs, that would be a great improvement.”

The advantage of fasudil is that it already has been shown to be safe in human patients in Japan, which could shorten the length of time required for clinical trials. Still, Sortwell said it is unlikely that the first phase of clinical trials will begin before 2019.

The search for new drugs to fight disease often is like casting a fishing line in the ocean and hoping something bites, Sortwell said.

“Repurposing an existing drug with a known safety record, such as fasudil, is like fishing in a smaller pond with hungrier fish,” she added. “It gives us a head start.”
ASGI FAZLEABAS, PHD, professor and associate chair of research, Department of Obstetrics, Gynecology and Reproductive Biology, received a $1.6M grant from the National Institute of Child Health and Human Development for his study, “Role of MicroRNA in the Pathophysiology of Endometriosis,” and a $1.4M grant for his study, “Reproductive and Developmental Sciences Training Program.” In addition, Dr. Fazleabas and his co-investigators received a grant from the NIH for the study, “Novel ex vivo Immunoabsorption Therapy to Treat Preeclampsia.”

RONALD CHANDLER, PHD, assistant professor, Department of Obstetrics, Gynecology and Reproductive Biology, received a grant from the Mary Kay Foundation for his study, “SWI/SNF Chromatin Remodeling and PI3-kinase Pathway Crosstalk Mechanisms in Ovarian Cancer.”

CRISTIAN MEGHEA, PHD, assistant professor, Department of Obstetrics, Gynecology and Reproductive Biology, received the National Institutes of Health Fogarty International Center K01 Career Development Award for his study, “Family Smoking Cessation in Romania Using Pregnancy as a Window of Opportunity.”

KAREN RACICOT, PHD, assistant professor, Department of Obstetrics, Gynecology and Reproductive Biology, received a grant from the Jean P Schultz Biomedical Research Endowment for her study, “Maternal Viral Infections and Fetal Brain Development.”

YUTAKA SHOJI, PHD, assistant professor, Department of Obstetrics, Gynecology and Reproductive Biology, received the Ovarian Cancer Research Fund’s Liz Tilberis Early Career Award for his study, “ARID1A Regulates ATAD2 in Ovarian Cancer.”

JOAN ILARDO, PHD, director of research initiatives, and her co-investigators with the Michigan State University Extension, received a $376,000 grant from the Michigan Health Endowment Fund for the Geriatric Education Center of Michigan Reimagined project.

ELAHÉ CROCKET, PHD, associate professor, Department of Medicine, received a $843,000 grant from National Institutes of Health’s National Heart, Lung, and Blood Institute for her study, “Research Education Program to Increase Diversity in Health-Related Research (REPID).”

KENNETH ROSENMAN, MD, professor and chief of the Division of Occupational and Environmental Medicine, Department of Medicine, received a $773,000 grant from National Institutes of Health to study hypersensitivity pneumonitis; a $200,000 grant from the Centers for Disease Control and Prevention and the National Institutes for Occupational Safety and Health to study worker’s compensation; a $44,000 grant from the Michigan Department of Health and Human Services to study lead surveillance; and a $39,000 grant from the Michigan Department of Licensing and Regulatory Affairs to study respiratory protection in agriculture.

MELISSA MILLERICK-MAY, PHD, assistant professor, Division of Occupational and Environmental Medicine, Department of Medicine, and her co-investigators, received a $3.7M grant from the National Institute of Allergy and Infectious Diseases for the study, “Improved Method for Identifying Causative Antigen in Hypersensitivity Pneumonitis Patients.” The research team includes professors KEN ROSENMAN, MD, JOHN GERLACH, PHD, MARTHA MULKS, PHD, JOSEPH GARDINER, PHD, and others.
NAZIA NAZ S. KHAN, MD, assistant professor, Department of Medicine, Division of General Internal Medicine, received a grant from the Sparrow-MSU Center for Innovation and Research for her study, “Improving Continuous Positive Airway Pressure Adherence in Patients with Obstructive Sleep Apnea: Impact of Patient and Family Engagement.”

SUPRATIK RAYAMAJHI, MD, assistant professor, Department of Medicine, received a grant from the Sparrow-MSU Center for Innovation and Research for his study, “Clinical Risk Factors and Predictors of Venous Thromboembolism Among Hospitalized Cancer Patients.”

CLARE LUZ, PHD, assistant professor, Department of Family Medicine, and her co-investigators received a $500,000 grant from the Michigan Health Endowment Fund for the study, “An Integrated Model for Personal Assistant Research and Training (IMPART).” She also received grants from the Michigan Department of Health and Human Services and MSU’s Pearl Aldrich Endowment for the study, “Building, Training... Building Quality: Putting Evidence into Practice.”

Department of Family Medicine researchers CHARLES GIVEN, PHD, professor, ERIN SARZYNSKI, MD, assistant professor, MAROLEE NEU BERGER, MS, academic specialist, and MOLLY POLVERENTO, MS, academic specialist, and co-investigators, received a $554,000 grant from the HIT Resource Center for the Institute for Health Policy study, “Data Analytics and Predictive Modeling.”

SCOTT COUNTS, PHD, associate professor, Department of Translational Science and Molecular Medicine, received a $426,250 grant from the National Institutes of Health for his study, “Molecular Profiling of Sporadic and Familial Alzheimer’s Disease.”

LAURIE FITZPATRICK, BS, research assistant, Department of Family Medicine, received a $240,000 grant from the National Institutes of Health for her study, “Why is Use of the Medicare Intensive Behavioral Therapy for Obesity Benefit So Low? Finding What Works to Promote Wider Dissemination.”

JUDY ARNETZ, PHD, professor, and LAURIE FITZPATRICK, BS, research assistant, Department of Family Medicine, received a grant from Sparrow-MSU Center for Innovation and Research for their study, “Workplace Bullying Among Nurses: An Exploration of Experiences and Perceived Root Causes.”

MASAKO MORISHITA, PHD, associate professor, Department of Family Medicine, and her co-investigators received a $894,000 grant from the National Institutes of Health for her study, “Inhalation of Contaminated Mine Waste Dusts as a Route for Systemic Metal Toxicity.”

WOODY NEIGHBORS, PHD, Charles Stewart Mott endowed professor, Division of Public Health, received a grant from the National Institutes of Health for his study, “Promoting Diversity in Public Health,” as well as a $243,000 grant from the Robert Wood Johnson Foundation for his study, “Diversity in Health Policy Research.”
The Department of Medicine promoted MARYANN TRAN, MD (CHM '03), to associate professor – HP, and appointed JATIN RANA, MD, assistant professor and MUKTA SHARMA, MD, assistant professor.

The Department of Obstetrics, Gynecology and Reproductive Biology appointed STACEY MISSMER, SCD, professor, YUTAKA SHOJI, PHD, assistant professor, and NIRAJ JOSHI, PHD, research assistant professor.

The Office of Medical Education Research and Development has named RANDI STANULIS, PHD, director, and appointed ELIZABETH HAMILTON, PHD, assistant professor.

The College of Human Medicine and Mary Free Bed Rehabilitation Hospital have jointly appointed ALLAN KOZLOWSKI, PHD, director of outcomes research in the John F. Butzer Center for Research & Innovation. Kozlowski will also serve as an assistant professor, Department of Epidemiology and Biostatistics.

ERIC ACHTYES, MD, MS, was promoted to associate professor in the Division of Psychiatry and Behavioral Medicine.

KATHERINE KRIVE, DO, was appointed assistant professor and associate training director, General Psychiatry and Child Psychiatry Residency Programs in the Department of Psychiatry.

AMY RALSTON, PHD, was promoted to associate professor and named the James K. Billman Jr, MD, Endowed Professor in the Department of Biochemistry and Molecular Biology.

The Department of Epidemiology and Biostatistics appointed HONGLEI CHEN, MD, PHD, professor, DAVID BARONDESS, PHD, associate professor, and AHNALEE BRINCKS, PHD, assistant professor.

HUI XU, MD, PHD, was promoted to associate professor in the Department of Pharmacology and Toxicology.

HUA XIAO, MD, PHD, was promoted to professor in the Department of Physiology.

The Department of Radiology promoted DAVID ZHU, PHD, professor, and appointed LODEWIJK VAN HOLSBEECK, MD, assistant professor, RAHEEL JOHN, DO, assistant professor, ERIC BIONDO-SAVIN, DO, assistant professor, and AMBER HEARD-BOOTH, MS, instructor.

ARON SOUSA, MD, was promoted to professor of health programs in the Department of Medicine.

The Department of Neurology and Ophthalmology promoted ANDREA BOZOKI, MD, professor, and ADNAN SAFDAR, MD, associate professor.
The Department of Translational Science and Molecular Medicine appointed ALISON BERNSTEIN, PHD, assistant professor, MATTHEW BENSKEY, PHD, research assistant professor, IVETTE Sandoval, PHD, research assistant professor.

The Department of Pediatrics and Human Development appointed assistant professors BRADLEY HOOPINGARNER, MD, and CHIOMA OKEAFOR, MD.

The Department of Surgery appointed BRADFORD MITCHELL, MD, assistant professor, and MICHELLE SOUTHARD, DO, assistant professor.

JAMIL SCOTT, PHD, was appointed research assistant professor in the Division of Public Health.

The College of Human Medicine Dean’s Office appointed CAROL JANNEY, PHD, assistant professor, and KELLY HIRKO, PHD, assistant professor.

HENRY BARRY, MD, MS, has been appointed Senior Associate Dean for Faculty Affairs and Development.

ANGIE THOMPSON-BUSCH, MD, has been appointed Grand Rapids Community Assistant Dean.

PEGGY THOMPSON, MD, has been appointed Associate Dean for Academic Affairs.

DIANNE WAGNER, MD, has been appointed Associate Dean for Undergraduate Medical Education.

The Department of Family Medicine has appointed MARK ENSBERG, MD, associate professor, ELIZABETH HENGSTEBECK, DO, assistant professor and MASAKO MORISHITA, MS, PHD, associate professor.
AWARDS AND ACHIEVEMENTS

DEAN NORMAN J. BEAUCHAMP JR, MD, MHS, received the Gold Medal Award from Washington State Radiological Society for his decades of leadership in the state's radiology and medical community.

ROBERT SMITH, MD, MS, professor, Department of Medicine, received the Michigan State University Distinguished Professor Award.

ASGI FAZLEABAS, PHD, professor and associate chair of research, Department of Obstetrics, Gynecology and Reproductive Biology, received the Distinguished Service Award from the Society for the Study of Reproduction. (See story on page 42)

M. ASHRAF MANSOUR, MD, professor and chair, Department of Surgery, received the Richard M. DeVos Award for Medical Excellence from the American Heart Association.

JOHN VANSCHAGEN, MD, senior associate chair, Department of Family Medicine, received a Presidential Citation from the Michigan State Medical Society House of Delegates.

BRYAN COPPLE, PHD, associate professor, Department of Pharmacology and Toxicology, was appointed to the National Institutes of Health Hepatobiliary Pathophysiology Study Section, Center for Scientific Review.

ROBERT FLORA, MD, MPH, associate chair for education, Department of Obstetrics, Gynecology and Reproductive Biology, was appointed chief academic officer/designated institutional officer for McLaren Health Care Corporation.

JOAN ILARDO, PHD, director of research initiatives, Division of Public Health, has been reappointed to a three-year term to the Commission on Services to the Aging by Gov. Rick Snyder.

ADESUWA OLOMU, MD, MS, professor, vice chair for research, director of the Office-GAP Project, Department of Medicine, received the Community Engagement Scholarship Award from Michigan State University.
KAREN CROSBY, MBA, chief financial officer, College of Human Medicine, received the 2016 Outstanding Supervisor Award from the Michigan State University WorkLife Office.

DEBRA FURR-HOLDEN, PHD, Charles Stewart Mott endowed professor, Division of Public Health, and MONA HANNA-ATTISHA, MD, MPH, FAAP, assistant professor of pediatrics, were appointed to Gov. Rick Snyder’s Public Health Advisory Commission.

MONA HANNA-ATTISHA, MD, MPH, FAAP, assistant professor of pediatrics, and RICHARD SADLER, PHD, assistant professor, Division of Public Health, and their co-investigators received American Journal of Public Health’s Paper of the Year Award for “Elevated Lead Blood Levels in Children Associated with the Flint Drinking Water Crisis: A Spatial Analysis of Risk and Public Health Response.”

RICHARD NEUBIG, MD, PHD, professor and chair, Department of Pharmacology and Toxicology, was elected chair of the Pharmaceutical Sciences Section of the American Association for the Advancement of Science.

DANIEL HAVLICHEK JR, MD, professor and chief of Division of Infectious Disease, Department of Medicine, was inducted into Sparrow’s Physician Hall of Fame.

MICHIGAN STATE UNIVERSITY COLLEGE OF HUMAN MEDICINE and BAY COLLEGE received the 2016 Innovation in Transfer Award from the Michigan Association of Collegiate Registrars and Admissions Officers for its Early Assurance Program partnership with Lake Superior State University, Michigan Technological University and Northern Michigan University.
Each year the College of Human Medicine recognizes outstanding college faculty for their contributions to medical education and research, academic contributions and achievements. The 2016 recipients are as follows:

**DISTINGUISHED FACULTY AWARD**

Mary Barth Noel, PhD, MPH, RDN, professor, Department of Family Medicine

**TEACHER-SCHOLAR AWARD**

Jana M. Simmons, PhD, assistant professor, Department of Biochemistry and Molecular Biology

**OUTSTANDING CLINICIAN AWARD**

Steven E. Roskos, MD, associate professor, Department of Family Medicine

**OUTSTANDING COMMUNITY FACULTY AWARD**

John Hebert III, MD, FACOG, associate professor, Department of Obstetrics, Gynecology and Reproductive Biology
DISTINGUISHED ACADEMIC STAFF AWARD

Marolee Neuberger, MS, academic specialist, Department of Family Medicine

WILLIAM B. WEIL, JR., MD, FAAP, ENDOWED DISTINGUISHED PEDIATRIC FACULTY AWARD

Raghu Kasetty, MD, associate professor, Department of Pediatrics and Human Development
Nina Mattarella, MD, assistant professor, Department of Pediatrics and Human Development
AMONG HIS PEERS, ASGI FAZLEABAS, PHD, director of the College of Human Medicine’s Center for Women’s Health Research, is respected as one of the world’s leading experts on infertility.

“I think Asgi, first of all, is regarded as an outstanding scientist,” said Bruce Murphy, president of the Society for the Study of Reproduction (SSR). “His publishing record is incredible. This past year he has produced six high-quality papers published in six high-quality journals. Amazing!”

In recognition of his work, the society presented Fazleabas with its Distinguished Service Award at its 2016 annual meeting in San Diego. With this latest honor, Fazleabas will have received two of the four major awards presented each year by the society, an association of thousands of scientists and physicians in 50 countries bound by their work in human and animal reproduction.

In 2010, the society honored him with its research award in recognition of his body of work the previous six years. The Distinguished Service Award “recognizes a member of the Society who has demonstrated unselfish service and leadership in advancing the discipline of reproductive biology.”

In nominating him for the award, George W. Smith, PhD, a professor of animal science in the MSU College of Agriculture and Natural Resources, called Fazleabas “a preeminent scientist in the field of reproductive biology” and cited his extensive research, his service on many scientific committees and his mentorship of the next generation of researchers.

“I can think of no one more deserving of the SSR Distinguished Service Award than Asgi Fazleabas,” Smith wrote. “You name it, he has done it.”

Fazleabas, a former president of the Society for the Study of Reproduction, who has served on many of its committees, was characteristically modest about his latest award. “It really is an honor to be recognized that I have made some contribution to the field I’ve worked in my entire career,” he said.

Fazleabas joined the College of Human Medicine in 2009 and is internationally recognized as an authority in the field of infertility, uterine biology, blastocyst implantation and endometriosis.

He has received several National Institutes of Health (NIH) grants for his research. That includes three recent NIH grants totaling more than $3.3 million to study the role of microRNA in endometriosis, to train graduate students and post-doctoral fellows in reproductive and developmental sciences, and to study a treatment for women with pre-eclampsia.

“I’m proud to know him because he’s one outstanding scientist,” said Murphy, who also is director of the University of Montreal’s Center of Research in Animal Reproduction. “We’ve all learned from the work that he’s done.”
From his days as the Sparty mascot to being recognized as a leader in family medicine in mid-Michigan, Dr. Ramsey continues to make us proud! As a Spartan MD, he is a 2009 graduate of the College of Human Medicine, is assistant professor in the Department of Family Medicine and practices at Elkton Family Medicine, part of the Scheurer Healthcare Network.
ANDREW W. SAXE, MD, professor, Department of Surgery, retired from Michigan State University after more than 16 years of service. During his tenure, Dr. Saxe held the positions of lead junior surgery clerkship director, program director of the General Surgery Residency, director of the Block II Curriculum, chair of Surgery Advisory Committee and assistant chair of the Department of Surgery. Major leadership roles outside the university included president of Michigan Chapter of American College of Surgeons, president of the Academy of Surgery of Detroit, president of the Detroit Surgical Association, vice president of the American Association of Endocrine Surgeons and governor of the American College of Surgeons. In his honor, the MSU Andrew Saxe Visiting Professorship in Endocrine Surgery has been established.

PATRICIA SENAGORE, MD (CHM ’82), professor, Department of Epidemiology and Biostatistics, retired from Michigan State University after more than 30 years of service. She joined the College of Human Medicine in 1986, where she served in a number of roles including associate professor in the Department of Pathology, director of the surgical pathology service at the Clinical Center laboratory, placental pathologist for the Placental Tissue Registry (PTR), medical consultant to the Investigative HistoPathology Laboratory, as well as a curriculum development committee member for the Colleges of Human Medicine and Osteopathic Medicine. She was the placental pathologist for the Pregnancy Outcomes and Community Health (POUCH) Study since its planning and inception in 1996. As a coinvestigator, she contributed to the development of the placenta data collection protocol, which was based on experience gained examining placentas for two community hospitals, a private practice service, and for the MSU-PTR. In her retirement, Pat continues to work with the POUCH Study Research team, publishing papers and helping to interpret placental pathology data.
BARB GARVEY, MSN, MBA, business administrator, Department of Family Medicine, retired from Michigan State University after more than 36 years of service. She joined Michigan State University as a nurse manager for the College of Osteopathic Medicine specialty clinics, and later served in business administration for both medical colleges, MSU HealthTeam, the Departments of Pediatrics and Human Development, Family Medicine and others.

WILLIAM ANDERSON, PHD, professor, Office of Medical Education Research and Development and the Office of Faculty Affairs and Career Development, retired from Michigan State University after 40 years of service. He created the Primary Care Faculty Development Fellowship Program, the nation's oldest, largest, and first true primary care faculty development fellowship program. His research interests are medical faculty career development and faculty vitality. He authored more than 150 peer-reviewed publications, presentations, and workshops.

SANDRA HASLAM, PHD, professor, Department of Physiology, retired from Michigan State University after more than 36 years of service. She joined the faculty at the university in 1980. She was a principal investigator of the Breast Cancer and the Environment Research Program, co-funded by the National Institute of Environmental Health Sciences and the National Cancer Institute. During her tenure, Haslam studied progesterone action in the normal mammary gland in animal models, both in vivo and in vitro, in the postmenopausal breast, and in the development of breast cancer.

MARY NOEL, PHD, MPH, RDN, professor, Department of Family Medicine, retired from Michigan State University after more than 28 years of service. For 10 years, she served as the department's associate chair for Academic Affairs and six years as senior associate chair. She is a registered dietitian with other specialties including management, education, family and a certificate for aging studies.
The goal of attracting the best medical students and helping them graduate with little or no debt has received a significant boost with the creation of new endowed scholarships in the College of Human Medicine.

In April 2016, Traverse City philanthropists Daniel and Debra Edson made a $600,000 gift to establish the Daniel and Debra Edson Endowed Scholarship Fund, the college’s first tuition endowed scholarship.

“The significance of this gift cannot be overstated,” said Aron Sousa, MD, former interim dean and current senior associate dean for academic affairs. “The Edsons’ generosity provides a new level of support for students who might not otherwise achieve their dreams. This scholarship will help students and their future patients for years to come.”

The Edsons established the scholarship to help talented and deserving students from the Traverse City region pursue their dreams of an MD degree from MSU. It is intended to support four years of medical education tuition for an in-state student who has been accepted into the college through its Early Assurance Program, with preference given to students from Northwestern Michigan College in Traverse City.

“I grew up in Antrim County, and our family doctor was 25 miles away,” said Dan Edson, who earned a master’s degree from MSU in 1979. “Debbie and I have long been passionate about health care in our area, so to provide a medical school education for an aspiring northern Michigan student is an honor and a privilege.”

Similarly, Flint residents Dr. Alexander Chan and Ann Walch-Chan made gifts to establish two endowments, The Chan Family Medical Education Scholarship Endowment and The Chan Family Medical Education Scholarship in Honor of Women in Medicine, in recognition of women in the Chan family. Both scholarships are for students with ties to the Flint community who demonstrate financial need, including those who enter through the Early Assurance Program or who undergo training in Flint.

“I hope to provide an enduring opportunity for aspiring young people affiliated with Flint to pursue medical education with less financial burden,” said Dr. Chan. “I encourage others who want to make a difference in the future of medicine and their community to consider making a gift of scholarship that reflects and supports hope for the future.”

Dean Norman J. Beauchamp Jr. knows well the value of student support through gifts of scholarship, a lesson he learned as an MSU medical student in the 1980s.

“When the dean of the MSU College of Human Medicine gave me a scholarship to attend medical school I promised I would one day return to ‘pay back’ the generosity of the school,” Beauchamp shared at a gathering of college supporters.

Scholarships help the college attract a diversity of students and help reduce the financial burden on College of Human Medicine students, who face an average $209,598 debt upon graduation.

The Edson and Chan endowed scholarships are significant steps toward the college’s goal of raising $31 million for scholarships during the Empower Extraordinary Campaign. Endowed funds are perpetual sources of scholarships, because the gift is invested, and only a portion of the interest is used each year for scholarships.
It wasn’t the kind of email cancer researcher André Bachmann normally receives.

The competition for research grants is tough and the application process time consuming, but this message said a foundation in St. Joseph, Mich., recently had held a race to raise money for pediatric cancer research, and “we were wondering how we can make a donation to your research.”

Any amount would help, said Bachmann, PhD, a professor of pediatrics and associate chair for research in the MSU Department of Pediatrics and Human Development, and he was surprised to learn the grant would be $50,000. More significantly, it was from a foundation created by the parents of a boy who had died from neuroblastoma, the deadly childhood cancer Bachmann has spent much of his career seeking to cure.

“People don’t just come up and give you $50,000,” he said. “This is hard-earned money. You’re receiving a check from them, which is nice, but it’s because their child died. To me, that’s very touching and special, and it comes with additional responsibilities to ensure we use these funds for our research in the most effective way possible.”

Bachmann traveled to St. Joseph this past summer to meet with Katie and Tony Mandarino, who founded the Alex Mandarino Foundation in memory of their son, who died in July 2013, at the age of five.

“We could tell Dr. Bachmann definitely cared,” said Katie Mandarino. “We were overwhelmed by his thoughtfulness. He wanted to know about Alex.”

Alex was a lively, engaging boy who loved feeding the ducks along the Saint Joseph River.

“You couldn’t look at him without a smile on your face,” his father said.

The couple hadn’t heard of neuroblastoma – a tumor that forms on the nerve cells in several areas of the body – until Alex was diagnosed with it at Helen DeVos Children’s Hospital a month before his third birthday. Over the next two years, they would learn all they could as their son was repeatedly hospitalized, undergoing countless tests and treatments in a futile effort to save his life.

“We were thrown into this world,” Katie said. “It was scary to see him go through this. It was like watching your child tortured. It was a nightmare. It was horrible.”

They were determined to help other children and families fighting pediatric cancers. In June 2013, a couple of weeks before Alex died, they held the first annual Alex’s Duck Duck Run.

In the three years since then, the foundation has given grants totaling $165,000 for pediatric cancer research. It also has given $20,000 to help families of children diagnosed with cancer.

“Ultimately, Alex fought too hard for us to give up the battle,” Tony said. “We do it a little bit for Alex, but we also do it for all the friends and families we met. We tell people, ‘We hope we’re cured out of existence.’ That’s the ultimate goal.”

The Mandarino’s chose Bachmann for their 2016 grant after Katie read a story on the MSU Today web site about his study of TIR-199, a “proteasome-inhibiting drug” that kills cancer cells by interrupting their ability to digest proteins. Tony Mandarino had heard Bachmann speak about his research at a conference sponsored by the Van Andel Institute in 2011, before Bachmann joined the College of Human Medicine. So when his wife sent him the MSU Today article, “I thought, oh my goodness, is this the same one who spoke at the conference years ago? I was kind of drawn to him. I just got a good feeling listening to him.”

“The $50,000 is going to help us quite a bit to take this new drug to the next level,” Bachmann said. “I will make sure every dollar is spent towards our common goal to cure neuroblastoma.”

FAMILY CONTINUES FIGHT AGAINST NEUROBLASTOMA THROUGH RESEARCH
ANITA AVERY, MD (CHM ’98), was elected to a one-year term as vice chair of the Michigan State Medical Society Board of Directors.

PINO COLONE, MD (CHM ’92), was re-elected to a third one-year term as Speaker of the Michigan State Medical Society House of Delegates.

MIKE GENORD, MD (CHM ’93), was named CEO of the Detroit-based Health Alliance Plan Midwest Health Plan.

PETER HAHN, MD, MBA (CHM ’97), was appointed chief medical officer for Metro Health Hospital.

EROL KOHLI, MD, MPH (CHM ’11), recently spent a month volunteering in Bhutan to help develop the infrastructure for the only ER in the capital Thimphu. It involved bedside teaching, lectures and simulation sessions for the residents, nurses, medics and physicians.

ESTEBAN LOPEZ, MD (CHM ’99), was selected to be a member of the Presidential Leadership Scholars Class of 2016.

JOSHUA MASTENBROOK, MD (CHM ’10), was appointed assistant professor of emergency medicine at Western Michigan University and associate program director of the EMS Fellowship.

ROBERT MCNUTT, MD (CHM ’75), published the book “Your Health, Your Decisions: How to Work with Your Doctor to Become a Knowledge-Powered Patient.”

ROSE RAMIREZ, MD (CHM ’88), was re-elected as an alternate delegate to the American Medical Association House of Delegates. She will serve another two-year term as alternate delegate, representing all Michigan physicians.

JAMES SURRELL, MD (CHM ’80), delivered the 2016 commencement speech at Northern Michigan University and also received an honorary Doctor of Science degree.

GERALD WITHERELL, MD (CHM ’97), received the “I HAVE Made a Difference Award” from WGVU Engage.

SUPPORT MEDICAL STUDENTS

The MSU College of Human Medicine Alumni Board established two funds in support of current College of Human Medicine medical students. Please consider joining your fellow alumni in making a donation to:

MSU College of Human Medicine Alumni Association Endowed Scholarship (AR000161) provides a direct academic support to help defray the increasing costs of medical school.

MSU College of Human Medicine Alumni Association Board Special Projects Fund (AR000324) provides activities determined by the board to enhance the well-being and engagement of current College of Human Medicine students and alumni.

Give today at www.givingto.msu.edu

ALUMNI STORIES WANTED!
YOUR ALUMNI OFFICE WANTS TO HEAR FROM YOU...
PLEASE SEND YOUR NEWS AND ANY CHANGES IN CONTACT INFORMATION TO:
Marci Muller
associate director of alumni relations and annual giving
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THANK YOU, ARON SOUSA.
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CONGRATULATIONS ON A JOB WELL DONE.
From your College of Human Medicine family.
SPARTANS ARE KNOWN FOR EXCELLENCE.
NO MATTER WHAT UNIFORM.

Whether on the court or in the lab, true excellence doesn’t come from standing alone. The collaborative culture of Michigan State University College of Human Medicine has attracted leading scientists who are making game-changing discoveries. Visit humanmedicine.msu.edu to learn more.