2021

ones are all healthy and safe.



Alumni **Spotlight: Emmanuel MBA Program Update: Fall**

Like all of us, our residency has experienced quite the roller coaster over the last 2 years. Fortunately, despite the surges and the deep impact COVID has had on our lives, over the last

First and foremost, I hope that you, your family, and loved

year we were able to transition most of our clinical and educational curriculum to a new, stable format. While we had to temporarily upstaff our ICUs during the last surge, we were able to do so without significantly impacting other rotations, maintaining a "normal" inpatient structure. Gratefully, we were able to resume in-person visits for the vast majority of our outpatient clinics while keeping some telehealth clinics, which we believe will remain even after the pandemic. Fortunately, throughout the last year we were able to maintain our robust educational programs and curriculum. Recognizing some benefits to remote teaching (e.g., allowing learners who

cannot physically be present to actively participate in the conferences), we have continued a hybrid model for many conferences, but have shifted to a hybrid model that has a greater in-person focus. Though all resident and fellowship interviews have been entirely

virtual, with the wonderful help of many program administrative staff, faculty and residents, we were able to once again have a truly spectacular residency match (more details below) and our residents continued to do amazingly well in the fellowship match. As I type this, we are eagerly awaiting the results of this year's fellowship matching in the coming days.

One great joy in my job is to hear about the wonderful work you, the alumni of our residency program, are doing. In this issue you will find many awards and recognitions that you have received over the last year (we have, undoubtedly, only captured a fraction of your accomplishments, so please send us updates!). We are also very excited to highlight in this issue how our faculty and alumni have been at the forefront of the United States vaccine effort, creating the mRNA and adenovirus vector technology and testing vaccines that have been the cornerstone of our vaccine efforts!

Finally, despite the chaos of the year, we were grateful to be able to celebrate the graduation of our senior residents through an outdoor dinner (pictured above) and graduation ceremony. We were also excited to modify our intern orientation events allowing us to gather safely outdoors (pictured below). Throughout the pandemic, our residents, fellows, and chief residents have given selflessly, demonstrating the utmost professionalism, kindness, and compassion. They worked tirelessly to provide our patients, family, staff and colleagues with the best possible support and care, consistently approaching the dark days of multiple surges with humility, creativity, and curiosity. It has been a privilege to work with and learn from each of them, and it is an honor to have them

as alumni of our residency program. We enjoy sharing updates and highlights about your residency program through Alumni News. Between issues you can also follow news and events in the program through Twitter @BIDMC IM and @BID CMRs and on Instagram @BIDMC_IM. As always, we would love to hear from you, so please email us with updates about your life, career, and reflections on your time as a resident at BIDMC. Chris Smith, MD Director, Internal Medicine Residency Program







Mensah, MD,

Following graduation from the residency in 2017, Dr. Emmanuel Mensah joined the Hospital Medicine program at BIDMC, where he has established a multifaceted and impressive career with clinical and academic interests in healthcare systems, medical

education, disparities in care delivery, and global health. Originally from Ghana, Emmanuel had always planned on a career path that would allow him to contribute to healthcare in Africa. With the support of leadership and his HMED colleagues and through his unbounded enthusiasm and energy, he was able to split his time between seeing patients at working in management consulting at McKinsey &

BIDMC and in Ghana, while also Company, focusing on healthcare in developing countries. Dr. Mensah later transitioned out of consulting to become the West Africa Lead for the NCDI Poverty Network. Supported by the Lancet NCDI Poverty Commission, this position allows Emmanuel to spend more time working with Ministries of Health and regional bodies leading programs to address severe noncommunicable diseases in several West African countries. Dr. Mensah is now also a Firm Chief for the Kurland Firm, and Director of Mentorship for residents who identify as underrepresented in medicine, bringing him full circle in the

residency program as mentor and educator of our residents. He considers himself blessed to combine medical education and mentoring into his career. Dr. Mensah's considerable talents as an educator have been recognized this year with three separate awards. He was selected by the housestaff as the faculty recipient of the Katherine Swan Ginsburg Humanism in Medicine annual award. This prestigious award recognizes the faculty member whose direct interactions with housestaff exemplify and foster Dr. Ginsburg's humanistic qualities and compassionate, patientcentered care. Dr. Mensah also received the 2021 Excellence in Student Teaching in Inpatient Medicine; this award from the 2020-21 BIDMC PCE HMS class recognizes Emmanuel's immense talents as an educator. Finally, he also received the Hospital Medicine Teacher of the Year award for supporting

learners while preserving autonomy, teaching and practicing evidence-based medicine, and serving as a role

model and/or mentor.

In Emmanuel's words "My training prepared me to be a well-balanced clinician irrespective of where I find myself in the world – whether seeing patients in Ghana or in the US. But most importantly, the sponsorship and professional mentorship has allowed me to pursue my various interests in healthcare. Whether I'm in Ghana seeing patients or in different countries in West Africa working with leaders from Ministries of Health, BIDMC will always be home."

Throughout the week, we were pleased to be able to celebrate enormous contributions of our interns, residents, and fellows.

Chair, Department of Medicine

Best.

Mark Zeidel, MD

I ask all of our faculty and staff to take the time to recognize and thank our trainees for a job superbly done during the pandemic to date.

invented new ways to care for patients, including the iPad program and many more innovations,

some of which will become part of our care armamentarium going forward.

reconfigured their schedules, often several times per week, and they offered our first line of response. As our resident teams became saturated, our fellows stepped in, often on very short notice, providing our second layer of response. The flexibility, resilience, professionalism, passion, and compassion shown by our trainees allowed us to expand the numbers of patients our intensivists and hospitalists could cover, so that every patient was cared for by physicians with the training and expertise to provide optimal care. Our interns, residents, and fellows

BIDMC Alumni: Leaders in Vaccine Development

result of several career-long journeys on the forefront of innovative Drew Weissman, MD, PhD research. An international leader in RNA biology, Drew Weissman, MD, PhD, graduate of the Residency Class of 1990, a Professor of Medicine at

As all eyes watched the vaccine development race throughout 2020, we in the residency program did so with great pride as several of our alumni and faculty have been intimately involved in the creation and testing of the COVID vaccines we now use. What may have seemed to the public like a remarkably quick accomplishment is actually the

the Perelman School of Medicine at the University of Pennsylvania, laid pivotal scientific groundwork for the technology used to innovate the RNA COVID-19 vaccines. After graduating from our residency

study, published in *Immunity*, which demonstrated the successful use

program, he pursued fellowship study at the NIH under Dr. Anthony Fauci and in 1997, established his lab at UPenn for the study of mRNA and innate system biology. It was there he met Dr. Katalin Karikó with whom he co-founded RNARx, with the objective of developing novel RNA therapies. Their work culminated in a landmark

of synthetic nucleosides to modify the RNA to prevent its degradation by the body. This breakthrough laid the groundwork for the use of RNA therapeutics which were employed by Pfizer and Moderna to engineer their COVID vaccines. Recently, Dr. Weissman was selected as the co-recipient, alongside Dr. Karikó, of the 2021 Lasker-DeBakey Clinical Medical Research

Award from the Lasker Foundation for his work in modified mRNA vaccines. Colloquially referred to as the "American Nobels," the Lasker Awards have been awarded annually since 1945 to those who have made major contributions to medical science or who have performed public service on behalf of medicine. Lindsey Baden, MD, a former resident and chief resident at BIDMC graduating in 1995, is an Infectious Diseases Specialist at Brigham & Women's Hospital and an expert in vaccine development. Dr. Baden has been a pivotal figure in the COVID vaccine clinical trials, serving as the co-principal investigator in

research effort established in March of 2020 at HMS to help combat the current pandemic and set the stage for fighting future ones. Dr. Baden was selected by Dr. George Daly, Dean of HMS, and others in MassCPR, to be a co-leader of the group's clinical management and outcomes working group. Within a matter of weeks, Dr. Baden's group had organized dozens of trials to test the existing treatment options for COVID-19 to identify viable therapies to treat and manage its complications, and thus improve patient outcomes. Inside our own medical center walls, in January of 2020, as soon as Chinese scientists released the genome sequence of the virus, Dan Barouch, MD, PhD, Director of the Center for Virology and

transport pieces of the genetic code into our bodies to induce our immune systems to recognize the invader and protect against it. His team quickly developed an animal model of infection in macaques, both to permit testing of vaccines and to enhance our understanding of the biology and dynamics of COVID infection. Once Dr. Barouch and his team had vaccine candidates, they administered them to the macaques. Several candidates were effective, but the strongest protection came from a version in which the spike protein is modified to remove protease cleavage sites, lengthening its residence time in the bloodstream, and perhaps enhancing its immunogenicity. They moved on to clinical trials in humans, and on February 27, 2021, the J&J vaccine was approved by the FDA with considerable implications in the fight against COVID-19. The single-dose vaccine does not necessitate a return visit for a second dose, and does not require the same degree of refrigeration as the Moderna and Pfizer's

study COVID variants and test vaccine efficacy against them.

colleagues.

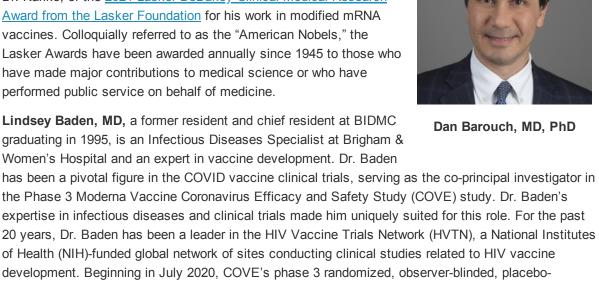
The Match THE MATCH We are excited to share with you news of this year's match, which includes 52 categorical and 12 preliminary interns from 38 different medical schools, with Brown, BU, Case Western, Columbia, Cornell, NYU, Tufts, UMass, UVM, Vanderbilt, and Wash U being the most represented medical schools. The new interns come from diverse backgrounds and bring rich experiences and expertise in areas such as global health, medical education, quality improvement, and research. Just as with our current housestaff, we're confident that you will find this to be an exceptional group of physicians. Thanks to everyone who helped with the huge undertaking of recruiting this outstanding new class, including our wonderful housestaff for leading virtual dinners and panel discussions,

creating videos and bringing tremendous energy and enthusiasm to their work every day, and our chief residents for their exceptional teaching, leadership, enthusiasm, and coordination. A huge thanks to our Folder Review Committee, a group of 35 dedicated faculty members who reviewed applications, selected those to interview, and ranked the outstanding class that we have now. A big thanks as well to three of our alumni, Pablo Quintero, Emmanuel Mensah, and Daniele Olveczky, and all of our residents in our White Coats for Black Lives chapter for their

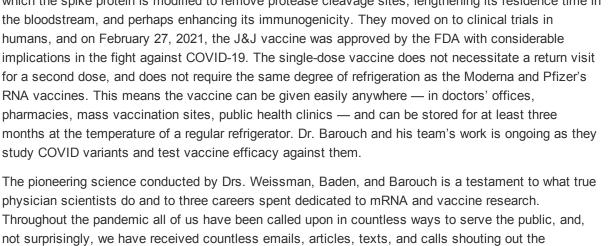
exceptional and dedicated efforts throughout the year. Thank you to all of our interviewers for their generosity of time and talent. Finally, we are indebted to Nikki DeMelo, Neal Biddick, and

accomplishments of you, our alumni. In the residency program, our goal is to help our residents to excel—as clinicians, educators, researchers, and academic scholars—and to become future leaders in internal medicine. Observing the creativity, dedication, commitment, leadership, and the depth of kindness and compassion modeled by our alumni throughout the pandemic has been truly remarkable.

It is an honor to be a graduate of this exceptional residency program and to have all of you as



Lindsey Baden, MD



Ginny Brady for their steadfast and outstanding leadership throughout the interview process. Click here to see a facesheet of this year's interns. **Alumni Ambassadors** Consistently, before and throughout the COVID-19 pandemic, our residents have excelled, exceeding our every expectation. Through their kindness, compassion, intelligence, generosity, and selflessness,

In that spirit, we hope that alumni are willing to continue to share their enthusiasm for BIDMC with applicants to our program. As graduates, you are uniquely positioned to talk about the transition from medical school to BIDMC, to discuss the training received here, and to share how

 Refer to us any outstanding candidates you would be proud to have in our program. We would be especially interested in learning about underrepresented in medicine (URiM)

Answer questions and give a few reflections about our residency to applicants (from your

Jacques Carter, MD, MPH, was recognized by the Harvard Alumni Association (HAA) with one of the 2020 HAA Awards, for his devoted career and volunteer service to improving the well-

Steven Freedman, MD, PhD, recently gave the Plenary Talk to over 5,000 participants at the North American Cystic Fibrosis Meeting. His talk entitled, "Advancing the GI Frontier for

pathogenesis of CF, performing research on new therapies, and expanding the GI workforce in CF through the DIGEST (Developing Innovative Gastrointestinal Training) program, which he

People With CF," focused on his work over the past twenty years on elucidating the

Lewis Lipsitz, MD, Chief of the Division of Gerontology, has been selected by the

underrepresented groups in medicine and to improve the care we provide to underserved

Grace Huang, MD, is the recipient of two major teaching awards, the prestigious 2021 A. Clifford Barger Excellence in Mentoring Award from HMS, and the Society of Hospital Medicine's (SHM) Award of Excellence in Teaching, for her outstanding teaching and for serving as role model and mentor to other hospitalists, residents, medical students, or other

David Shein, MD, published his textbook Clinical Medicine for Optometrists in December 2020.

Honoring Women in Medicine Photo Series, in recognition of her countless contributions to

Nathan H. Raines, MD, MPH, Leela Davies, MD, PhD, and Mark Gubatan, MD, have all been selected as recipients of the 2021 Doris Duke Physician Scientist Fellowship, a program which promotes the transition of emerging physician scientists at the subspecialty fellowship stage into faculty-level positions. They are three of only 11 recipients selected nationwide and will receive two years of funding and guidance of a mentor to further their successful biomedical

At our Internal Medicine Residency Graduation in June, we recognized this year's Residency

Kelly Graham, MD, MPH, received the Robert C. Moellering, Jr. Teaching Award, which

Anjala Tess, MD, was selected as this year's honoree in the Department of Medicine

they provide extraordinary care to our patients, nurses, staff and each other! Their enthusiasm for learning and medicine is contagious across

We hope alumni ambassadors would be willing to help in just a few ways:

former and current institution) when they reach out to you.

Mary LaSalvia, MD, MPH, has assumed the role of Associate Chief Medical Officer, Ambulatory at BIDMC. After completing her Internal Medicine and Infectious Diseases training at BIDMC, Mary joined the ID faculty in 2013 and has since served in numerous roles, including significant leadership roles throughout the COVID-19 pandemic.

the program, the Department, and the Medical Center.

it prepares physicians for their careers.

candidates from your program.

Awards & Honors

contact us at medicinealumninews@bidmc.harvard.edu.

being of his patients, his students, and his community.

Gerontological Society of America as the next Editor-in-Chief of the Journal of Gerontology, **Medical Sciences**, the premier clinical journal in the field. Daniele Ölveczky, MD, MS, has been named Interim Physician Director for the Center for Diversity, Equity and Inclusion. In this role, she will continue to develop robust and increasingly effective efforts to enhance our recruitment and retention of professionals from traditionally

populations.

healthcare professionals.

research careers.

Residency Graduation Teaching Awards

In Memoriam

Teaching Awards. Among the recipients were several alumni:

runs and is funded by the CF Foundation.

Fellowship, Reed E. Drews, MD, has elected to step away from this position, but will remain engaged in the program as Emeritus Program Director. In his time as a program director, Dr. Drews has educated more than 140 fellows. Please congratulate Dr. Drews on his tenure as a world-class medical educator. Elliot Tapper, MD, received the American Gastroenterological Association's Young Investigator Award in Clinical Science, given in recognition of outstanding research achievements. Dr. Tapper's research focuses on improving the outcomes, quality of life and freedom from adverse events for patients with decompensated cirrhosis, with a specific focus on those with or at risk for hepatic encephalopathy.

We are sad to report on the deaths of following members of our alumni community: Dr. Lawrence S. Friedman passed away on June 21, 2021 in San Diego. He earned his medical

degree at Georgetown University School of Medicine. Dr. Friedman completed his residency and fellowship training at BIDMC and HMS from 1983-1986. Dr. Friedman joined UCSD Medical School in 1994 and since 2014, was the Associate Dean for Clinical Affairs. Dr. Friedman dedicated his life to providing care to those most at risk of missing out on it. He oversaw a comprehensive program for teenagers and young adults infected with HIV, as well as provided preventive and primary care for HIV-positive patients. He co-founded a mobile van collaborative, which continues to provide free health care to homeless and runaway youth. He also founded the UCSD Clinical Telemedicine Program, ensuring specialty consultation both statewide and internationally to those unable to access quality care in their local environments. He is survived by his brother, sister, and loving family.

quality improvement, patient safety, and medical education during her career at BIDMC. After an award-winning tenure of 24 years as Program Director of our Hematology-Oncology

David Suskin, MD, was selected as Preceptor of the Year. This award is chosen by vote of the housestaff and given to one preceptor each year in recognition of their excellent teaching, mentorship, and commitment to the residency program. Tyler Mehegan, MD, fellow in the Division of Cardiovascular Medicine and Chief Medical Resident, was the recipient of the Fellow Teaching Award. This award, chosen by vote of housestaff, goes to the fellow who has contributed the most to the education of the medical residents during the past academic year.

Hospital. He then served in the Army with the rank of major at Walter Reed Army Medical Center, where he was head of the Immunology Section in the Department of Gastroenterology and an attending physician. He was then a gastroenterologist in practice for more than 40 years in Amherst, NY where more than 5000 patients visited his clinics. He is survived by his loving wife, two sons, daughters, and extended family.

Dr. Julian I. Kitay died in November 2020 in Cary, North Carolina. A graduate of Princeton University, he entered military service then went on to Harvard Medical School. He was a Medical Resident at the then Beth Israel Hospital from 1955-1956. After clinical training at Yale and Columbia Schools of Medicine, he advanced to become Professor of Internal Medicine at University of Virginia School of Medicine. His research focus was the mechanism of pituitary adrenal function and published more than 100 leading peer reviewed scientific papers and books.

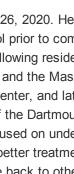
In 1978 he moved to Galveston, Texas and the University of Texas School of Medicine as Professor of Internal Medicine and Physiology and Biophysics and held the positions of Vice-

Dr. Ilja J. Weinrieb died on June 13 at the age of 74. A graduate of the University at Buffalo, he completed his residency and clinical fellowship at the then Beth Israel Hospital from 1972-1974. He did his post-doctoral fellowship in gastroenterology at Yale University's Yale New Haven

President and Senior Associate Dean of Academic and Student Affairs. For his work with student education, he was elected in 1986-1987 as National Chairman for Medical Education of the Association of American Medical Colleges. An international scholar, scientist, and researcher in endocrinology, he is survived by his loving wife, son, grandson and extended family. Dr. Alan Ivan Green died at age of 77 on November 26, 2020. He attended Columbia University and then Johns Hopkins University for medical school prior to coming to the then Beth Israel Hospital for his medicine residency from 1969-70. Following residency Alan relaunched his career as a scientist, first at Harvard Medical School and the Massachusetts Mental Health Center, where he ran the Commonwealth Research Center, and later at Dartmouth, where he was Chair of the Department of Psychiatry and Director of the Dartmouth SYNERGY Clinical and Translational Science Institute. His own research focused on understanding the basis of

> **Associate Program Directors** Aaarti Asnani, MD Neal Biddick, MD Primary Care Program Director Kelly Graham, MD, MPH (2010, CMR 2011) Virginia Brady, MD Leo Celi, MD

Jonathan Crocker, MD



Jason Freed, MD (2014, CMR 2016) Ken Mukamal, MD, MPH Daniel Ricotta, MD (2014, CMR 2016) Lisa Samelson, PhD Lika Targan, MD (2016, CMR 2018) Christina Wee, MD, MPH Julius Yang, MD, PhD (2000, CMR 2001)



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controlled trial was conducted at 99 centers across the United States under Baden's leadership. Their findings were <u>published in the NEJM</u> in December 2020, demonstrating that the Moderna (mRNA-1273) had a 94.1% efficacy at preventing COVID-19 illness, including severe disease. By December 18, 2020, the Moderna Vaccine had been approved with an Emergency Use Authorization from the FDA. In addition to his work on the COVE study, Dr. Baden has also been involved in the Massachusetts Consortium on Pathogen Readiness (MassCPR), a multi-institutional, cross-disciplinary, international Vaccine Research, and his team began work on a vaccine, which would become the Johnson & Johnson Vaccine. For two decades prior, Dr. Barouch's group has been studying diseases such as HIV, Zika, and Ebola, working to invent a platform for vaccines that utilizes engineered adenoviruses to

Please let us know if you would be willing to again participate as an alumni ambassador! As always, we welcome any updates to your current position, title, and contact information. Please CONGRATULATIONS

recognizes qualities as an outstanding teacher, clinician, and researcher. Jeffrey Zwicker, MD, received the The Gordon J Strewler Mentorship of Resident Research Award, given in recognition of a faculty member who has significantly contributed to the growth and development of the research skills and experiences of our housestaff.

schizophrenia and substance abuse and developing better treatments for these disorders. He mentored dozens of young researchers, trying to give back to others what he had received from his own key research mentors. He is survived by his devoted wife, twin children, and countless loving family members. Residency Program Leadership

Support the Program

Program Director C. Christopher Smith, MD (1999, CMR 2000)

Education Manager Ruth Colman, C-TAGME

Vice Chair for Education Eileen Reynolds, MD

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