



Duke Microbiome Center

Fall 2020 DMC Newsletter

This quarterly newsletter is provided by the Duke Microbiome Center (DMC) to inform the Duke University community about activities, resources, news, funding and educational opportunities, and recent highlights in the microbiome sciences at Duke and beyond. If you have items you would like for us to include in a future newsletter, or if you would like to add someone to our newsletter listserv to receive future issues, please email [Pat Massard](mailto:pat.massard@duke.edu). For further information on the DMC, please visit our [website](https://www.duke.edu/microbiome).

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A Message from the Director:

Dear DMC Community,

Diversity is inherent to the mission of the DMC to cultivate and support microbiome science at Duke University and beyond. Within the DMC, we are committed to advancing diversity, equity, and inclusion as fundamental to our mission, success and excellence. This commitment is motivated by our understanding and value placed on (i) diversity as an important parameter in any ecosystem, (ii) diversity and inclusion of human populations under study in microbiome science, and (iii) the critical need to increase diversity, equity, and inclusion within the community of microbiome scientists. Over the past several months, DMC leadership and faculty have engaged in a series of discussions to discern how our center can improve DEI within Duke and our broader scientific community. To date, this has led to the DMC developing a new [DEI Statement](#) to guide our future work together, and a new [DMC Diversity Matters Award](#) program that will recognize individuals within DMC laboratories that have made significant contributions to advance diversity, equity, and inclusion initiatives within Duke or our broader scientific and geographic communities. I encourage you to review the DMC Diversity Matters Award link above, and stay tuned for the announcement of the first nomination deadline in early 2021. Beyond these DMC initiatives, I urge all of you to stay attuned to the many generative discussions and committee work ongoing around the Duke community, including Duke Health's ["Moments to Movements"](#) programs. In the months to come, there will be an increasing number of new opportunities for

each of us at Duke to actively engage with DEI discussions and training programs. I encourage each of you to learn about and engage in those opportunities as they become available, and thereby help Duke and the DMC community live into our shared mission to advance diversity, equity, and inclusivity.

I'm happy to also share one other important recent development within the DMC community. The DMC faculty have always been scientifically diverse, including members from over 18 different departments across the Duke campuses. However, this has resulted in DMC labs being physically separate in their respective departments, without a physical nucleus. As many of you already know, that situation underwent an important shift over this past summer, as the 4th floor of the new MSRB3 building was colonized by several DMC-affiliated labs including [Lawrence David](#), [Amanda MacLeod](#), [Neil Surana](#), [Raphael Valdivia](#), [Noelle Younge](#), and [Jennifer Zhang](#). Joining these research laboratories in that space is the [Duke Microbiome Core Facility](#) directed by Holly Dressman (see below for specific updates from the MCF). While representing only a small subset of the DMC labs and related core facilities, this creates an important new physical nucleus for DMC collaboration, education, recruitment, and other activities.

Finally, I am happy to welcome several new faculty members into the DMC community who have formally joined the center since our last newsletter. They include [Murali Doraiswamy](#), [Paul Suhocki](#), [Jennifer Ingram](#), [Daniel Reker](#), [Amy Barto](#), [Emily Derbyshire](#), and [Sweta Patel](#). Thanks for your attention to this newsletter, and please take a few minutes to browse the other news items below.

Best wishes to you and yours,

John Rawls

Director, Duke Microbiome Center

Congratulations to the 2020 DMC Development Grant Awardees

2020 DMC Development Grant Awardees:

- “Childhood Obesity and Gut Microbial Signatures of Dietary Change”, Lawrence David, PhD (Molecular Genetics & Microbiology)
- “Reciprocal Interactions between Nociceptive Sensory Neurons and the Host Microbiome”, Ru-Rong Ji, PhD (Anesthesiology)

2020 DMC COVID-19 Development Grant Awardees:

- “Probiotics To Eliminate COVID-19 Transmission in Exposed Household Contacts”, Anthony Sung, MD (Medicine) and Paul Wischmeyer, MD (Anesthesiology)
- “Impact of the Gut and Respiratory Microbiota on Susceptibility to SARS-CoV-2 in Children”, Matthew Kelly, MD MPH (Pediatrics)

Funding Opportunities through the DMC

The DMC has one active funding opportunity:

DMC Rolling Voucher Program: Duke University has established shared resources that avail state-of-the-art technologies to interrogate microbiome structure and function to Duke investigators. The Duke Microbiome Center offers a rolling voucher program to provide its investigators access to these shared resources, particularly for microbiome projects that are not yet externally funded. Eligibility is limited to Duke Microbiome Center faculty and their trainees, and the maximum budget is \$5,000. There is no deadline for these proposals. For more information, see [the program announcement](#). Note that these vouchers can only be applied to the following core facilities: [Gnotobiotic Core](#), [Microbiome Core Facility](#), [Sequencing and Genomic Technologies Shared Resource](#), and [Genomic Analysis and Bioinformatics Shared Resource](#).

IBIEM Training Program Welcomes Its Final Class of Students

The [Integrative Bioinformatics for Investigating and Engineering Microbiomes \(IBIEM\) Training Program](#) welcomes a new class of students. For the past four years, this training program funded by the National Science Foundation has brought together students from Duke and North Carolina A&T University for two semesters of coursework and professional skills development in the microbiome sciences. With the NSF grant supporting IBIEM ending at the end of this academic year, we are happy to welcome the new and final IBIEM class which includes 14 students from Duke including representatives from Biomedical Engineering, Chemistry, Civil & Environmental Engineering, Integrated Toxicology & Environmental Health, Mechanical Engineering & Materials Sciences, Molecular Genetics & Microbiology, Statistical Sciences and UPGG; 6 students from NC A&T representing Applied Science &

Technology, Computational Science & Engineering, and Nanoengineering; and 1 student visiting Duke from the University of Iowa.

Duke Microbiome Core Facility Moves to MSRB3

The [Duke Microbiome Core Facility](#) has moved to a new location. We are now located on the 4th floor of MSRB3 in bays 35-40. We are excited to be located closer to colleagues whose research involves various aspects of microbial research. The lab follows the BSL2-enhanced laboratory guidelines that enables us to process human samples that may contain COVID-19. For those interested in testing to see if samples contain COVID-19 please contact Dr. Michael Datto at michael.datto@duke.edu. We are requesting collection of stool samples for new studies to consider the DNAgenotek OMNIgene-GUT kit for DNA and RNA downstream applications and DNAgenotek OMNImet-GUT for metabolomic-wide discovery analysis and targeted assays such as short-chain fatty acids. Due to social distancing we are now accepting samples Monday and Tuesday between 2-3pm in the lobby of the MSRB3 building. For those not in the MSRB3 building we ask that you notify us by email (microbiomesr@duke.edu) or by phone (919-684-8224) when you will be submitting samples so we can meet you in the lobby.

A new service is currently being established in collaboration with the Duke BioRepository and Precision Pathology Center in providing a flexible morphology-driven, high-plex profiling on a single FFPE or fresh frozen tissue section that enables spatially resolved, high-plex digital quantification of proteins and mRNA in tissue. These assays are performed by the NanoString GeoMix Digital Spatial Profiler and the NanoString nCounter system. We will be posting on our web site, <https://genome.duke.edu/cores-and-services/microbiome->

[shared-resource](#) more information in the coming weeks about this new service and a timeline as to when this service will be offered.





Upcoming DMC Meetings

** Note: all DMC seminars and faculty meetings will be held remotely until further notice. Videoconference links will be provided by email. **

DMC Microbiome Noon Seminar: This monthly research-in-progress series is held on third Wednesdays at 12PM and is open to the entire DMC community. The schedule of speakers and location can be viewed [here](#). If you would like to present your work in a future DMC Microbiome Noon Seminar, please contact [Pat Massard](#).

DMC Faculty Meetings: The next DMC faculty meeting will be Monday October 26

from 12:45-2:00PM via Zoom. Subsequent DMC faculty meetings will be on Mondays January 25 and April 26 from 12:45-2:00PM.

Please mark your calendars!

News

[Microbiome Centers Consortium Mobilizes to Support COVID-19 Research](#) -

10/20/2020

The Microbiome Centers Consortium (MCC), in which the DMC participates, has organized to support COVID-19 research across its member institutions. For those interested in COVID-19 medicine and research as it relates to the microbiome, please see the [MCC COVID-19 website](#) which includes links to a dedicated Slack channel and a Protocols.io site.

[New Grant Funds Research on Aquatic Symbioses](#) - *8/11/2020*

The DMC's Dr. John Rawls joins a team of University of Oregon researchers on a new \$325,000 grant to examine aquatic symbioses — the interactions between different animal species living together. The project is funded by a 30-month award from the Gordon and Betty Moore Foundation and involves the study of zebrafish in controlled ecosystems.

[AI May Offer a Better Way to ID Drug-Resistant Superbugs](#) - *8/4/2020*

The DMC's Lingchong You, along with his graduate student Carolyn Zhang, have shown that different strains of the same bacterial pathogen can be distinguished by a machine learning analysis of their growth dynamics alone,

which can then also accurately predict other traits such as resistance to antibiotics. The demonstration could point to methods for identifying diseases and predicting their behaviors that are faster, simpler, less expensive and more accurate than current standard techniques. Their results appeared online on August 3 in the *Proceedings of the National Academy of Sciences*.

[New Platform Quickly Analyzes Bacterial Strains in the Microbiome](#) - 6/30/2020

The DMC's Lawrence David, along with now former David lab members Max Villa and Rachael Bloom, developed an experimental platform called MicDrop to culture and assay gut microbial function for hundreds of different microbes at once. This allows them to analyze dozens of the bacterial species in an individual's microbiome in a single day. "We know that the gut microbiome is hugely important in human health," Bloom said. "Having a way to measure how someone's microbiome responds to a treatment – whether a drug, probiotic or prebiotic – is really important." Their work was published in *mSystems* on June 30.

[Duke Anesthesiology Awarded Program Center of Excellence Grant](#) - 5/15/2020

An interdisciplinary team of Duke investigators, including the DMC's Dr. Staci Bilbo, have been awarded a five-year, \$8,566,593 million NIH Center of Excellence award entitled "Resolution of Neuroinflammation and Persistent Pain by Complementary Approaches" supported by the NIH's Program Project Grant (PPG) mechanism.

Upcoming Conferences

For a full list of upcoming microbiome conferences, click [here](#).

Microbiome Funding Opportunities

Notice of Special Interest (NOSI): Availability of Urgent Competitive Revisions and Administrative Supplements for Coronavirus Disease 2019 (COVID-19) Research within the Mission of NIDCR. Award Amount: See solicitation for details (see [here](#)). 11/2/2020

Small Research Grants for Analyses of Down Syndrome-related Research Data for the INCLUDE Project (R03 Clinical Trial Not Allowed). Award Amount: See solicitation for details (see [here](#)). 11/3/2020

Modulating Intestinal Microbiota to Enhance Protective Immune Responses against Cancer (R01 Clinical Trial Not Allowed). Award Amount: See solicitation for details (see [here](#)). 11/6/2020

RFI: Grand Challenges for Human Flourishing. Award Amount: See solicitation for details (see [here](#)). 11/11/2020

Genomic Data Analysis Network: Genomic Data Center (U24 Clinical Trial Not Allowed). Award Amount: \$1,500,000 (see [here](#)). 11/12/2020

Notice of Special Interest (NOSI) regarding the Availability of Urgent Competitive Revisions and Administrative Supplements for Research on

Coronavirus Disease 2019 (COVID-19) in Individuals with Down Syndrome for the INCLUDE Project. Award Amount: See solicitation for details (see [here](#)). 11/12/2020

Investigator Initiated Research in Computational Genomics and Data Science (R01 Clinical Trial Not Allowed). Award Amount: See solicitation for details (see [here](#)). 11/16/2020

Ecology and Evolution of Infectious Diseases (EEID). Award Amount: See solicitation for details (see [here](#)). 11/18/2020

Centers of Excellence in Genomic Science (RM1 Clinical Trial Optional). Award Amount: See solicitation for details (see [here](#)). 11/20/2020

Post-Doctoral Training in Genomic Medicine Research. Award Amount: See solicitation for details (see [here](#)). 12/1/2020

Mechanistic Studies of the Interaction between SARS-CoV-2/COVID-19 and Diseases and Organ Systems of Interest to NIDDK (R01 Clinical Trial Optional). Award Amount: \$750,000 (see [here](#)). 12/16/2020

Notice of Special Interest (NOSI): Methods Development in Natural Products Research (SBIR/STTR). Award Amount: See solicitation for details (see [here](#)). 1/5/2021

Computational Genomics and Data Science Opportunities for Small Business (R43/R44 Clinical Trial Not Allowed). Award Amount: See solicitation for details (see [here](#)). 1/5/2021

NIDDK Catalyst Award (DP1 Clinical Trial Not Allowed). Award Amount:

\$2,500,000 (see [here](#)). 1/6/2021

Research Towards Developing a Cure for HBV in HIV/HBV Co-Infection (R21 Clinical Trial Not Allowed). Award Amount: See solicitation for details (see [here](#)). 1/7/2021

NOSTER & Science Microbiome Prize. Award Amount: \$25,000 (see [here](#)). 1/24/2021

Initiative to Maximize Research Education in Genomics: Courses (R25 Clinical Trial Not Allowed). Award Amount: \$750,000 (see [here](#)). 1/25/2021

Examining Diversity, Recruitment and Retention in Aging Research (R24 Clinical Trial Not Allowed). Award Amount: \$150,000 (see [here](#)). 1/25/2021

Toward Elucidating Mechanisms Contributing to HIV Reservoirs in NIDDK-relevant Tissues (Cure TEAMS) (R01 Clinical Trial Optional). Award Amount: See solicitation for details (see [here](#)). 2/3/2021

Cohort Studies To Improve Our Understanding of Influenza Immunity, Vaccine Response and Effectiveness in Older Adults (65 years and older) (U01 Clinical Trial Not Allowed). Award Amount: See solicitation for details (see [here](#)). 2/4/2021

Notice of Special Interest (NOSI): The Influence of Host Resilience on Heterogeneity of Acute Respiratory Distress Syndrome/Acute Lung Injury (ARDS/ALI). Award Amount: See solicitation for details (see [here](#)). 2/5/2021

Notice of Special Interest (NOSI) regarding the Availability of Urgent Competitive Revisions for Research on Coronavirus Disease 2019

(COVID-19) and the Causative Virus SARS-CoV-2. Award Amount: See solicitation for details (see [here](#)). 2/5/2021

Toward Elucidating Mechanisms of HIV Pathogenesis within the Mission of the NIDDK (Pathogenesis TEAMS) (R01 Clinical Trial Optional). Award Amount: \$2,500,000 (see [here](#)). 3/3/2021

Novel Nucleic Acid Sequencing Technology Development (R01, R21, R43/R44). Award Amount: \$2,100,000 (see [here](#)). 3/9/2021

Genetic analysis of non-human animal models to understand the genomic architecture of substance use disorders and addictive behaviors (U01 Clinical Trial Not Allowed). Award Amount: See solicitation for details (see [here](#)). 3/19/2021

NICHD Program Project Grants for HIV Research (P01 Clinical Trial Optional). Award Amount: \$5,000,000 (see [here](#)). 3/31/2021

Notice of Special Interest (NOSI): Availability of Urgent Competitive Revisions and Administrative Supplements For Research on Biological Effects of the 2019 Novel Coronavirus on the Nervous System. Award Amount: See solicitation for details (see [here](#)). 4/14/2021

Notice of Special Interest (NOSI) regarding the Availability of Administrative Supplements and Urgent Competitive Revisions for Mental Health Research on the 2019 Novel Coronavirus. Award Amount: See solicitation for details (see [here](#)). 4/15/2021

Notice of Special Interest (NOSI): NIEHS Support for Understanding the Impact of Environmental Exposures on Coronavirus Disease 2019

(COVID-19). Award Amount: See solicitation for details (see [here](#)). 5/3/2021

Research Opportunities in Space Biology (ROSBio). Award Amount: See solicitation for details (see [here](#)). 7/31/2023

Plant Genome Research Program (PGRP). Award Amount: \$5,000,000 (see [here](#)). No deadline.

Enabling Discovery through GENomic Tools (EDGE). Award Amount: \$2,000,000 (see [here](#)). No deadline.

Division of Integrative Organismal Systems Core Programs. Award Amount: See solicitation for details (see [here](#)). No deadline.

Cellular and Biochemical Engineering. Award Amount: See solicitation for details (see [here](#)). No deadline.

Engineering of Biomedical Systems. Award Amount: See solicitation for details (see [here](#)). No deadline.

Call for Rapid Access Proposals for COVID-19 Research. Award Amount: See solicitation for details (see [here](#)). No deadline.

Dear Colleague Letter on the Coronavirus Disease 2019 (COVID-19). Award Amount: \$200,000 (see [here](#)). No deadline.

Notice Announcing the Availability of Common Data Elements for Research Related to the Public Health Emergency caused by Coronavirus Disease 2019 (COVID-19). Award Amount: See solicitation for details (see [here](#)). No deadline.

Dear Colleague Letter: Provisioning Advanced Cyberinfrastructure to Further Research on the Coronavirus Disease 2019 (COVID-19). Award Amount: See solicitation for details (see [here](#)). No deadline.

Recent DMC Publications

Davey L; Valdivia RH. Bacterial genetics and molecular pathogenesis in the age of high throughput DNA sequencing. *Curr Opin Microbiol* 54:59 (4/1/2020) <https://scholars.duke.edu/individual/pub1431868>

Zaengle-Barone JM; Jackson AC; Besse DM; Becken B; Arshad M; Seed PC; Franz KJ. Correction to Copper Influences the Antibacterial Outcomes of a β -Lactamase-Activated Prochelator against Drug-Resistant Bacteria. *ACS Infect Dis* 6:759 (4/1/2020) <https://scholars.duke.edu/individual/pub1434707>

Orans J; Kovach AR; Hoff KE; Horstmann NM; Brennan RG. Crystal structure of an Escherichia coli Hfq Core (residues 2-69)-DNA complex reveals multifunctional nucleic acid binding sites. *Nucleic Acids Res* 48:3987 (4/1/2020) <https://scholars.duke.edu/individual/pub1433973>

Akinboyo IC; Young RR; Spees LP; Heston SM; Smith MJ; Chang Y-C; McGill LE; Martin PL; Jenkins K; Lugo DJ. Microbiology and Risk Factors for Hospital-Associated Bloodstream Infections Among Pediatric Hematopoietic Stem Cell Transplant Recipients. *Open Forum Infect Dis* 7:ofaa093 (4/1/2020) <https://scholars.duke.edu/individual/pub1436609>

Zhang C; Schneeberger PH; Levy L; Lee Y; Huszti E; Hunter SE; Ahmed M; Moshkelgosha S; Boonstra K; Sage AT. Pulmonary Microbiome Changes in Lung Transplant Recipients with Gastroesophageal Reflux *J Heart Lung Transpl* 39:S105 (4/1/2020) <https://scholars.duke.edu/individual/pub1438367>

Siddiqui NY; Vaughan MH; Ma L; Karstens L; Amundsen C; Schmader K. Urinary Microbiome in Menopausal Women with Recurrent Urinary Tract Infections *J Am Geriatr Soc* 68:S11 (4/1/2020) <https://scholars.duke.edu/individual/pub1438346>

Mao J; Chen Y; Ma L. Bayesian Graphical Compositional Regression for Microbiome Data *J Am Stat Assoc* 115:610 (4/2/2020) <https://scholars.duke.edu/individual/pub140660>

Gunsch C. Data from: Evaluation of the mycobiome of ballast water and implications for fungal pathogen distribution *Duke Research Data Repository* (4/10/2020) <https://scholars.duke.edu/individual/pub1437462>

Gobeil SM-C; Bobay B; Juvvadi P; Cole C; Heitman J; Steinbach W; Venters R; Spicer L. Designing Selective and Non-Immunosuppressive Antifungal FK506 Analogs: Structures, Biophysics and Dynamics of Fungal and Human Calcineurin-Inhibitor Complexes *bioRxiv* (4/15/2020) <https://scholars.duke.edu/individual/pub1437858>

Schotanus K; Heitman J. Centromere deletion in *Cryptococcus deuterogattii* leads to neocentromere formation and chromosome fusions. *eLife* 9 (4/20/2020) <https://scholars.duke.edu/individual/pub1438191>

Jackson AC; Zaengle-Barone JM; Puccio EA; Franz KJ. A Cephalosporin

Prochelator Inhibits New Delhi Metallo- β -lactamase 1 without Removing Zinc.
ACS Infect Dis 6:1264 (5/1/2020)

<https://scholars.duke.edu/individual/pub1439769>

White MJ; Armstrong SC; Kay MC; Perrin EM; Skinner A. Associations between milk fat content and obesity, 1999 to 2016. *Pediatr Obes* 15:e12612 (5/1/2020)

<https://scholars.duke.edu/individual/pub1425839>

Ganley JG; D'Ambrosio HK; Shieh M; Derbyshire ER. Coculturing of Mosquito-Microbiome Bacteria Promotes Heme Degradation in *Elizabethkingia anophelis*.
Chembiochem 21:1279 (5/1/2020)

<https://scholars.duke.edu/individual/pub1428681>

Juvvadi PR; Bobay BG; Gobeil SMC; Cole DC; Venters RA; Heitman J; Spicer LD; Steinbach WJ. FKBP12 dimerization mutations effect FK506 binding and differentially alter calcineurin inhibition in the human pathogen *Aspergillus fumigatus*. *Biochem Biophys Res Commun* 526:48 (5/1/2020)

<https://scholars.duke.edu/individual/pub1435096>

Zhang K; Bonito G; Hsu CM; Hameed K; Vilgalys R; Liao HL. *Mortierella elongata* increases plant biomass among non-leguminous crop species
Agronomy 10: (5/1/2020) <https://scholars.duke.edu/individual/pub1447324>

Buchheit T; Huh Y; Maixner W; Cheng J; Ji R-R. Neuroimmune modulation of pain and regenerative pain medicine. *J Clin Invest* 130:2164 (5/1/2020)

<https://scholars.duke.edu/individual/pub1437064>

Diana Z; Sawickij N; Rivera NA; Hsu-Kim H; Rittschof D. Plastic pellets trigger feeding responses in sea anemones. *Aquat Toxicol* 222:105447 (5/1/2020)

<https://scholars.duke.edu/individual/pub1434059>

Liang G; Zhao C; Zhang H; Mattei L; Sherrill-Mix S; Bittinger K; Kessler LR; Wu GD; Baldassano RN; DeRusso P. The stepwise assembly of the neonatal virome is modulated by breastfeeding. *Nature* 581:470 (5/1/2020)
<https://scholars.duke.edu/individual/pub1439894>

Gusa A; Williams JD; Cho J-E; Averette AF; Sun S; Shouse EM; Heitman J; Alspaugh JA; Jinks-Robertson S. Transposon mobilization in the human fungal pathogen *Cryptococcus* is mutagenic during infection and promotes drug resistance in vitro. *P Natl Acad Sci USA* 117:9973 (5/1/2020)
<https://scholars.duke.edu/individual/pub1437907>

Venkatesh KK; Vladutiu CJ; Strauss RA; Thorp JM; Stringer JSA; Stamilio DM; Hughes BL; Dotters-Katz S. Association Between Maternal Obesity and Group B *Streptococcus* Colonization in a National U.S. Cohort. *J Womens Health* (5/4/2020) <https://scholars.duke.edu/individual/pub1423857>

Fisher MC; Gurr SJ; Cuomo CA; Blehert DS; Jin H; Stukenbrock EH; Stajich JE; Kahmann R; Boone C; Denning DW. Threats Posed by the Fungal Kingdom to Humans, Wildlife, and Agriculture. *mBio* 11 (5/5/2020)
<https://scholars.duke.edu/individual/pub1439893>

Young RR; Jenkins K; Araujo-Perez F; Seed PC; Kelly MS. Long-term stability of microbiome diversity and composition in fecal samples stored in eNAT medium. *MicrobiologyOpen* e1046 (5/10/2020)
<https://scholars.duke.edu/individual/pub1441129>

Werner CS; Nunn CL. Effect of urban habitat use on parasitism in mammals: a meta-analysis. *P Roy Soc B-Biol Sci* 287:20200397 (5/13/2020)
<https://scholars.duke.edu/individual/pub1441170>

Kawadiya S; Welling C; Grego S; Deshusses MA. Fecal Malodor Detection Using Low-Cost Electrochemical Sensors. *Sensors-Basel* 20 (5/20/2020) <https://scholars.duke.edu/individual/pub1446926>

Lehrnbecher T; Fisher BT; Phillips B; Beauchemin M; Carlesse F; Castagnola E; Duong N; Dupuis LL; Fioravanti V; Groll AH. Clinical Practice Guideline for Systemic Antifungal Prophylaxis in Pediatric Patients With Cancer and Hematopoietic Stem-Cell Transplantation Recipients. *J Clin Oncol* JCO2000158 (5/27/2020) <https://scholars.duke.edu/individual/pub1442189>

Forbis-Stokes AA; Miller GH; Segretain A; Rabarison F; Andriambololona T; Deshusses MA. Nutrient removal from human fecal sludge digestate in full-scale biological filters. *Chemosphere* 257:127219 (5/28/2020) <https://scholars.duke.edu/individual/pub1448257>

Haridas S; Albert R; Binder M; Bloem J; LaButti K; Salamov A; Andreopoulos B; Baker SE; Barry K; Bills G. 101 Dothideomycetes genomes: A test case for predicting lifestyles and emergence of pathogens. *Stud Mycol* 96:141 (6/1/2020) <https://scholars.duke.edu/individual/pub1435821>

Dotters-Katz SK; Hughes BL. Considerations for Obstetric Care during the COVID-19 Pandemic. *Am J Perinat* 37:773 (6/1/2020) <https://scholars.duke.edu/individual/pub1438608>

Drea CM. Design, delivery and perception of condition-dependent chemical signals in strepsirrhine primates: implications for human olfactory communication. *Philos T Roy Soc B* 375:20190264 (6/1/2020) <https://scholars.duke.edu/individual/pub1438090>

Butt J; Blot WJ; Shrubsole MJ; Waterboer T; Pawlita M; Epplein M. Differences in antibody levels to *H. pylori* virulence factors VacA and CagA among African Americans and whites in the Southeast USA. *Cancer Cause Control* 31:601 (6/1/2020) <https://scholars.duke.edu/individual/pub1436746>

Bordt EA; Ceasrine AM; Bilbo SD. Microglia and sexual differentiation of the developing brain: A focus on ontogeny and intrinsic factors. *Glia* 68:1085 (6/1/2020) <https://scholars.duke.edu/individual/pub1421988>

Posfai D; Maher SP; Roesch C; Vantaux A; Sylvester K; Péneau J; Popovici J; Kyle DE; Witkowski B; Derbyshire ER. Plasmodium vivax Liver and Blood Stages Recruit the Druggable Host Membrane Channel Aquaporin-3. *Cell Chem Biol* 27:719 (6/1/2020) <https://scholars.duke.edu/individual/pub1438540>

Chen O; Donnelly CR; Ji R-R. Regulation of pain by neuro-immune interactions between macrophages and nociceptor sensory neurons. *Curr Opin Neurobiol* 62:17 (6/1/2020) <https://scholars.duke.edu/individual/pub1423474>

Bornbusch SL; Grebe NM; Lunn S; Southworth CA; Dimac-Stohl K; Drea C. Stable and transient structural variation in lemur vaginal, labial and axillary microbiomes: patterns by species, body site, ovarian hormones and forest access. *FEMS Microbiol Ecol* v.96 (6/1/2020) <https://scholars.duke.edu/individual/pub1446940>

Zucker NL; Hughes SO. The Persistence of Picky Eating: Opportunities to Improve Our Strategies and Messaging. *Pediatrics* v.145 (6/1/2020) <https://scholars.duke.edu/individual/pub1442211>

Case NT; Heitman J; Cowen LE. The Rise of Fungi: A Report on the CIFAR Program Fungal Kingdom: Threats & Opportunities Inaugural Meeting. G3-

Genes Genom Genet 10:1837 (6/1/2020)

<https://scholars.duke.edu/individual/pub1447188>

Toplis B; Bosch C; Schwartz IS; Kenyon C; Boekhout T; Perfect JR; Botha A. The virulence factor urease and its unexplored role in the metabolism of *Cryptococcus neoformans*. *FEMS Yeast Res* v.20 (6/3/2020)

<https://scholars.duke.edu/individual/pub1447301>

Schmitz R; Fitch ZW; Xu H; Ghali A; Mehta AK; Guasch A; Kirk AD. Kidney transplantation using alemtuzumab, belatacept, and sirolimus: Five-year follow-up. *Am J Transplant* (6/8/2020) <https://scholars.duke.edu/individual/pub1446805>

Hunsaker EW; McAuliffe KJ; Franz KJ. Fluconazole analogues with metal-binding motifs impact metal-dependent processes and demonstrate antifungal activity in *Candida albicans*. *J Biol Inorg Chem* (6/15/2020)

<https://scholars.duke.edu/individual/pub1448305>

Brown HE; Telzrow CL; Saelens JW; Fernandes L; Alspaugh JA. Sterol-Response Pathways Mediate Alkaline Survival in Diverse Fungi. *mBio* v. 11 (6/16/2020) <https://scholars.duke.edu/individual/pub1448113>

Masler IV; Palakshappa D; Skinner AC; Skelton JA; Brown CL. Food insecurity is associated with increased weight loss attempts in children and adolescents. *Pediatr Obes* e12691 (6/18/2020)

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