



# Duke Microbiome Center

## Winter 2021 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. To suggest items for this newsletter or to add someone to our newsletter listserv, please email [Pat Massard](#). For further information on the DMC, please visit our [website](#).

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## **A Message from the Director:**

Dear DMC Community,

Happy new year to each of you! I am eager to share with you two important announcements about new DMC initiatives. **First**, please join me in congratulating the recipients of our [DMC Diversity Matters Award](#): Brianna Petrone and Claudia Gunsch. The annual DMC Diversity Matters Award was designed to recognize individuals in our DMC community that have made significant contributions towards advancing diversity, equity, and inclusion within Duke and our broader scientific and geographic communities. Please see the article below in this newsletter to learn more about Brianna's and Claudia's contributions to those important ends. **Second**, please mark your calendars for our new [DMC Seminar Series](#). This new monthly seminar series will be at 12PM noon EST on first Wednesdays each month. The DMC Seminar Series is largely run by graduate students, postdocs, and fellows in DMC labs, and provides DMC trainees opportunities to build their networks and meet leaders in the field. These seminars will be held by Zoom for the rest of this academic year, with the link being distributed by the DMC listserv. For the first seminar this Wednesday Feb. 3, we're happy to welcome [Steven D. Townsend, Ph.D.](#), Assistant Professor of Chemistry at Vanderbilt University, who will be presenting on "Prospecting Human Milk for Non-Infant Uses". I encourage you to enter this new seminar series entered in your calendars, and I look forward to seeing you there. Please see these and other important news items below, including information about our upcoming DMC Development Grant RFAs which includes a special partnership with the [Duke Center for AIDS Research \(CFAR\)](#).

Best wishes for health and success in 2021,

John Rawls

Director, Duke Microbiome Center

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## Funding Opportunities through the DMC

In the coming weeks, we'll be announcing two new RFAs in our Development Grant series. This will include a renewal of the regular [DMC Development Grant RFA](#) as well as a special RFA in partnership between the DMC and the [Duke Center for AIDS Research \(CFAR\)](#). The goal of this special DMC-CFAR Development Grant RFA will be to support research aimed at elucidating the interplay between the microbiome and immune responses relevant to HIV-1, AIDS, or AIDS-related opportunistic infections and malignancies. Both of these RFAs will have application deadlines in mid May 2021, and will have a \$60,000 budget limit. These RFAs are being finalized now and will be formally announced later this month. Stay tuned!

The DMC current 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](#).

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## **Brianna Petrone & Claudia Gunsch Are Co-Recipients of the DMC Diversity Matters Award**



The Duke Microbiome Center (DMC) leadership team is happy to announce that the co-recipients of the inaugural DMC Diversity Matters Award are Brianna Petrone and Claudia Gunsch. The DMC is committed to advancing diversity, equity, and inclusion as fundamental to our center's success and excellence (read more [here](#)). Our ability to achieve these ends relies on the initiative, leadership, and engagement of our center members. Launched in 2020, the annual Diversity Matters Award is designed to recognize individuals within the DMC that have made significant advances towards these ends within Duke and our broader scientific and geographic communities. We are very happy to recognize Brianna and Claudia as the recipients of this year's DMC Diversity Matters Award for their contributions described below.

***Brianna Petrone, MD/PhD student in the Molecular Genetics and Microbiology Program:***

Brianna Petrone's receipt of the DMC Diversity Matters Award recognizes her as an exceptionally thoughtful and empathetic student leader in the Department of Molecular Genetics and Microbiology's (MGM) efforts to highlight and combat racism. As a MD/PhD student in the MGM Program, she helped organize MGM graduate students in the summer of 2020 to express their concerns about racism, which prompted a departmental town hall meeting and subsequent faculty discussion. That in turn led to the creation of a MGM Department policy roadmap document for addressing racism, which underwent a half dozen revisions via a departmental working group involving students, postdocs, and staff along with faculty. Brianna has been instrumental in organizing that working group, applying the same skills she demonstrated in her basic and clinical research: insightful perspective, balance and empathy, and organizational acumen. This working group, which was recently named MGM Action Group Against Racism (MGM-AGAR), is now moving into the action phase of the roadmap with Brianna's continued organizational efforts, making a real impact on anti-racism efforts in the MGM Department, and setting a sustainable blueprint for the group's long-term efforts. For her initiative, commitment, and effective leadership in these important and ongoing efforts, Brianna Petrone is a deserving recipient of this inaugural DMC Diversity Matters Award. To learn more about Brianna, go [here](#).

***Dr. Claudia Gunsch, Theodore Kennedy Professor of Civil and Environmental Engineering, Associate Vice Provost for Faculty Advancement, and Associate Director of the Duke Microbiome Center:***

Dr. Claudia Gunsch's receipt of the DMC Diversity Matters Award recognizes the leadership and vision she has displayed in the [Integrative Bioinformatics for Investigating and Engineering Microbiomes \(IBIEM\) Training Program](#). IBIEM is a 1-year training program for early-stage Ph.D. students enrolled at Duke and North Carolina A&T State University, a historically black university in Greensboro NC. In

2015, Claudia took the initiative to organize and lead a successful application for a National Science Foundation Research Traineeship grant. In doing so, Claudia brought together faculty mentors from Duke and NCA&T with diverse background in microbiology, engineering, and computer science, recognizing that the next generation of microbiome scientist would need to be able to integrate and collaborate across such disparate fields. In accord, students that were eventually enrolled in IBIEM were intentionally selected from those three fields to ensure a diversity of perspectives and backgrounds. In addition, IBIEM brings together NCA&T and Duke trainees and faculty from diverse racial, ethnic, and socioeconomic backgrounds. IBIEM trainees then learn the value of different scientific and personal perspectives, how to communicate and collaborate effectively, and how to leverage that collective diversity to solve scientific problems. From 2015-2021, IBIEM has provided graduate students at Duke and NCA&T with new interdisciplinary competencies in microbiome science as well as opportunities to explore and understand diversity in ways that would have otherwise unavailable to them. Now in its final year of NSF funding, IBIEM provides a valuable roadmap for interdisciplinary training and HBCU partnership that Duke could build upon in different ways in the future. For her vision, leadership, and effort bringing the IBIEM program to Duke, Dr. Claudia Gunsch is a deserving recipient of this inaugural DMC Diversity Matters Award. To learn more about Claudia, go [here](#).

The next nomination cycle for the DMC Diversity Matters Award will be announced in fall 2021. For further details on this award mechanism, go [here](#).

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**Leveraging the strengths and experience of microbiome centers in response to COVID-19**

Members of the DMC leadership are among those serving on the COVID-19 Committee of the national Microbiome Center Consortium (MCC) which recently published a [commentary at mSystems](#) identifying different ways that microbiome centers like ours can be leveraged in response to the COVID-19 pandemic. The MCC is aggregating information from microbiome centers across the country about ongoing projects, protocols, and related resources (see the [MCC COVID-19 resource page](#) for more information). Many DMC investigators are engaged in clinical and translational research at this frontier at Duke, including the ongoing [PROTECT-EHC Study](#) and [BRAVE Kids Study](#).

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## 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 Seminar Series:** This monthly seminar series is held on *first* Wednesdays each month at 12PM. The DMC Seminar Series is organized by graduate students, postdocs, and fellows in DMC labs, and provides DMC trainees opportunities to build their networks and meet leaders in the field. For the first seminar this Wednesday Feb. 3, we're happy to welcome [Steven D. Townsend, Ph.D.](#), Assistant Professor of Chemistry at Vanderbilt University, who will be presenting on "*Prospecting Human Milk for Non-Infant Uses*".

**DMC Microbiome Noon Research-In-Progress Series:** 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 April 26 from 12:45-2:00PM via Zoom.

Please mark your calendars!

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## News

### [Researchers Discover Bacterial DNA's Recipe for Success](#) - 11/9/2020

The DMC's Lingchong You and his graduate student Teng Wang have developed a new way of modeling how potentially beneficial packages of plasmids can circulate and accumulate through a complex environment that includes many bacterial species. The work has also allowed the team to develop a new factor dubbed the "persistence potential" that, once measured and computed, can predict whether or not a plasmid will continue to thrive in a given population or gradually fade into oblivion. Their results appeared online on November 4th in Nature Communications.

### [Gut Microbiome Snapshot Could Reveal Chemical Exposures in Children](#) - 12/4/2020

The DMC's Claudia Gunsch is one of a team of researchers that for the first time has found a correlation between the levels of bacteria and fungi in the gastrointestinal tract of children and the amount of common chemicals found in their home environment. Their results appear in the November issue of Environmental Science and Technology Letters.

### [Atlas Maps Cleaned-up Tumor Microbiomes](#) - 12/31/2020

The DMC's Xiling Shen and his graduate student Anders Dohlman worked with



other researchers to develop a set of methods to separate out microbial contamination from microbiome species that were part of tumors and used those methods to gain new insights into tumor microbiomes. They reported their work in the Dec. 30, 2020, online issue of Cell Host & Microbe.

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## Upcoming Conferences and Workshops

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

The NIEHS is hosting its first Microbiome Workshop titled “Impact of Environmental Exposures on the Microbiome and Human Health,” February 23–24, 2021, 8:00 am-4pm. The meeting will be virtual. Registration is required, but free of charge. The registration deadline is February 5, 2021. For more information and to register, click [here](#).

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## Microbiome Funding Opportunities

**Co-infection and Cancer (R01, R21 Clinical Trial Not Allowed).** Award Amount: See solicitation for details (see [here](#)). 2/5/2021

**Notice of Special Interest: Emerging Viral Infections and their Impact on the Male and Female Reproductive Tract.** Award Amount: See solicitation for details (see [here](#)). 2/5/2021

**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

**Research to Advance HBV Cure: HIV/HBV Co-Infection and HBV Mono-infection (R01 Clinical Trial Not Allowed).** 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

**Age-related Microbiota Changes and their Implications in Chronic Disease Prevention, Treatment and Progression (R01, R21 Clinical Trial Optional).** Award Amount: See solicitation for details (see [here](#)). 2/5/2021

**The Mechanistic Role of the Microbiome in the Pathobiology of Heart, Lung, Blood, and Sleep Diseases (R01 - Clinical Trial Not Allowed).** Award Amount: See solicitation for details (see [here](#)). 2/5/2021

**Role of Gut Microbiome in Regulating Reproduction and Its Impact on Fertility Status in Women Living with and Without HIV (R01, R21 Clinical Trial Optional).** Award Amount: See solicitation for details (see [here](#)). 2/5/2021

**Advancing Translational and Clinical Probiotic/Prebiotic and Human Microbiome Research (R01 Clinical Trial Optional).** Award Amount: See solicitation for details (see [here](#)). 2/5/2021

**NIDCR Research Grants for Analyses of Existing Genomics Data (R01, R03 Clinical Trial Not Allowed).** Award Amount: See solicitation for details (see [here](#)).

2/5/2021

**Omics-guided Biobehavioral Interventions for Improved Health Outcomes: A Step Forward in Translation (R01 Clinical Trial Optional).** Award Amount: See solicitation for details (see [here](#)). 2/5/2021

**Generating New Insights and Mechanistic Understanding of Antibiotic Resistance Development (R01, R21 Clinical Trial Not Allowed).** Award Amount: See solicitation for details (see [here](#)). 2/5/2021

**AHRQ -- Large Research Projects for Combating Antibiotic-Resistant Bacteria (CARB) (R01, R18).** Award Amount: \$2,500,000 (see [here](#)). 2/5/2021

**Microbial-based Cancer Therapy -Bugs as Drugs (R01, R21 Clinical Trial Not Allowed).** Award Amount: See solicitation for details (see [here](#)). 2/5/2021

**US Enhanced Surveillance Network to Assess Burden, Natural History, and Effectiveness of Vaccines to Prevent Enteric and Respiratory Viruses in Children.** Award Amount: See solicitation for details (see [here](#)). 2/8/2021

**Leveraging Big Data Science to Elucidate the Mechanisms of HIV Activity and Interaction with Substance Use Disorder (R01, R21 - Clinical Trials Not Allowed).** Award Amount: \$350,000 (see [here](#)). 2/9/2021

**Short-term Mentored Career Enhancement Award in Dental, Oral and Craniofacial Research for Mid-Career and Senior Investigators (K18 Independent Clinical Trial Not Allowed).** Award Amount: See solicitation for details (see [here](#)). 2/12/2021

**Dannon Yogurt, Probiotics and the Gut Microbiome Fellowship Grant.** Award

Amount: \$25,000 (see [here](#)). 2/15/2021

**Advancing Mechanistic Probiotic/Prebiotic and Human Microbiome Research (R01).** Award Amount: See solicitation for details (see [here](#)). 2/16/2021

**Ethical, Legal, and Social Implications (ELSI) of Genomics Research Project Grant Program (R01, R03, R21).** Award Amount: See solicitation for details (see [here](#)). 2/17/2021

**Understanding the Rules of Life: Microbiome Theory and Mechanisms (URoL:MTM).** Award Amount: \$3,000,000 (see [here](#)). 2/23/2021

**Biotechnology Risk Assessment Research Grants Program (BRAG).** Award Amount: \$500,000 (see [here](#)). 2/24/2021

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

**Flash Grants.** Award Amount: \$24,000 (see [here](#)). 3/10/2021

**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](#)). 3/12/2021

**Balzan Prizes -- Nominations Requested.** Award Amount: See solicitation for details (see [here](#)). 3/15/2021

**Enabling Discovery through GENomics (EDGE).** Award Amount: See solicitation

for details (see [here](#)). 3/16/2021

**NICHD Program Project Grants for HIV Research (P01 Clinical Trial Optional).**

Award Amount: \$5,000,000 (see [here](#)). 3/31/2021

**Notice of Intent to Publish a Funding Opportunity Announcement for Nutrition for Precision Health, powered by the All of Us Research Program: Microbiome and Metagenomics Center (U24 Clinical Trial Not Allowed).**

Award Amount: See solicitation for details (see [here](#)). 4/6/2021

**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): NIA Availability of Administrative Supplements and Revision Supplements on Coronavirus Disease 2019 (COVID-19).**

Award Amount: See solicitation for details (see [here](#)). 5/1/2021

**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

**Centers of Excellence in Genomic Science (RM1 Clinical Trial Optional).**

Award Amount: See solicitation for details (see [here](#)). 5/20/2021

**Research Experience in Genomic Research for Data Scientists (R25).**

Award Amount: \$250,000 (see [here](#)). 5/25/2021

**COVID-19 Private Sector Engagement & Partnership Fund.**

Award Amount:

\$1,000,000 (see [here](#)). 5/28/2021

**Modulating Intestinal Microbiota to Enhance Protective Immune Responses against Cancer (R01 Clinical Trial Not Allowed).** Award Amount: See solicitation for details (see [here](#)). 6/10/2021

**Grants - Mohamed bin Zayed Species Conservation Fund.** Award Amount: \$25,000 (see [here](#)). 6/30/2021

**Investigator Initiated Research in Computational Genomics and Data Science (R01 Clinical Trial Not Allowed).** Award Amount: See solicitation for details (see [here](#)). 7/16/2021

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

**Administrative Supplements for Functional Studies Based on Results Obtained in the Protein Structure Initiative (Structural Genomics).** Award Amount: \$50,000 (see [here](#)). No deadline.

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

**Instrument Capacity for Biological Research (ICBR).** Award Amount: See solicitation for details (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.

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## Recent DMC Publications

Huynh FK; Peterson BS; Anderson KA; Lin Z; Coakley AJ; Llaguno FMS; Nguyen T-TN; Campbell JE; Stephens SB; Newgard CB.  $\beta$ -Cell-specific ablation of sirtuin 4 does not affect nutrient-stimulated insulin secretion in mice. *Am J Physiol* 319:E805 (10/1/2020) <https://scholars.duke.edu/individual/pub1459522>

Zhang T; Harrison MR; O'Donnell PH; Alva AS; Hahn NM; Appleman LJ; Cetnar J; Burke JM; Fleming MT; Milowsky MI. A randomized phase 2 trial of pembrolizumab versus pembrolizumab and acalabrutinib in patients with platinum-resistant metastatic urothelial cancer. *Cancer* 126:4485 (10/1/2020) <https://scholars.duke.edu/individual/pub1453944>

Sun S; Hoy MJ; Heitman J. Fungal pathogens. *Curr Biol* 30:R1163 (10/1/2020) <https://scholars.duke.edu/individual/pub1462142>

Semmes EC; Hurst JH; Walsh KM; Permar SR. Cytomegalovirus as an immunomodulator across the lifespan. *Curr Opin Virol* 44:112 (10/1/2020) <https://scholars.duke.edu/individual/pub1456251>

Tang L; Deshusses MA. Novel Integrated Biotrickling Filter-Anammox Bioreactor

System for the Complete Treatment of Ammonia in Air with Nitrification and Denitrification. *Environ Sci Technol* 54:12654 (10/1/2020)

<https://scholars.duke.edu/individual/pub1463048>

Jiang C; Wang Z; Donnelly CR; Wang K; Andriessen AS; Tao X; Matsuda M; Zhao J; Ji R-R. PD-1 Regulates GABAergic Neurotransmission and GABA-Mediated Analgesia and Anesthesia. *iScience* 23:101570 (10/1/2020)

<https://scholars.duke.edu/individual/pub1462401>

Landin M; Lerebours R; Seymour KA. Association of Gender and Surgical Approach on Readmission and Reoperation after Primary Bariatric Surgery. *J Am Coll Surgeons* 231:E70 (10/1/2020) <https://scholars.duke.edu/individual/pub1467831>

Donnelly CR; Chen O; Ji R-R. How Do Sensory Neurons Sense Danger Signals? *Trends Neurosci* 43:822 (10/1/2020) <https://scholars.duke.edu/individual/pub1457143>

Cao Y; Barros AP. Weather-dependent nonlinear microwave behavior of seasonal high-elevation snowpacks. *Remote Sens-Basel* 12:1 (10/2/2020)

<https://scholars.duke.edu/individual/pub1462864>

Seymour KA; Turner MC; Kuchibhatla M; Sudan R. Gastroesophageal Reflux Predicts Utilization of Dehydration Treatments After Bariatric Surgery. *Obes Surg* (10/13/2020) <https://scholars.duke.edu/individual/pub1463123>

Tonner PD; Darnell CL; Bushell FML; Lund PA; Schmid AK; Schmidler SC. A Bayesian non-parametric mixed-effects model of microbial growth curves. *PLoS Comput Biol* 16:e1008366 (10/26/2020)

<https://scholars.duke.edu/individual/pub1463220>

Schott BH; Antonia AL; Wang L; Pittman KJ; Sixt BS; Barnes AB; Valdivia RH; Ko



DC. Modeling of variables in cellular infection reveals CXCL10 levels are regulated by human genetic variation and the Chlamydia-encoded CPAF protease. *Sci Rep* 10:18269 (10/26/2020) <https://scholars.duke.edu/individual/pub1463251>

Powers E; Karachaliou GS; Kao C; Harrison MR; Hoimes CJ; George DJ; Armstrong AJ; Zhang T. Novel therapies are changing treatment paradigms in metastatic prostate cancer. *J Hematol Oncol* 13:144 (10/28/2020) <https://scholars.duke.edu/individual/pub1464021>

Reker D; Blum SM; Wade P; Steiger C; Traverso G. Historical Evolution and Provider Awareness of Inactive Ingredients in Oral Medications. *Pharm Res* 37:234 (10/29/2020) <https://scholars.duke.edu/individual/pub1464545>

Kirk AD; Adams AB; Durrbach A; Ford ML; Hildeman DA; Larsen CP; Vincenti F; Wojciechowski D; Woodle ES. Optimization of de novo belatacept-based immunosuppression administered to renal transplant recipients. *Am J Transplant* (10/31/2020) <https://scholars.duke.edu/individual/pub1464569>

D'Agostino EM; Skinner AC. Critically Evaluating Youth Body Mass Index Trajectories: Implications for Health Versus Stigma. *Am J Public Health* 110:1599 (11/1/2020) <https://scholars.duke.edu/individual/pub1460758>

Tanaka JS; Young RR; Heston SM; Jenkins K; Spees LP; Sung AD; Corbet K; Thompson JC; Bohannon L; Martin PL. Anaerobic Antibiotics and the Risk of Graft-versus-Host Disease after Allogeneic Hematopoietic Stem Cell Transplantation. *Biol Blood Marrow Tr* 26:2053 (11/1/2020) <https://scholars.duke.edu/individual/pub1452203>

Smith CJ; Kingsbury MA; Dziabis JE; Hanamsagar R; Malacon KE; Tran JN; Norris HA; Gulino M; Bordt EA; Bilbo SD. Neonatal immune challenge induces female-

specific changes in social behavior and somatostatin cell number. *Brain Behav Immun* 90:332 (11/1/2020) <https://scholars.duke.edu/individual/pub1457083>

White PJ; Lapworth AL; McGarrah RW; Kwee LC; Crown SB; Ilkayeva O; An J; Carson MW; Christopher BA; Ball JR. Muscle-Liver Trafficking of BCAA-Derived Nitrogen Underlies Obesity-Related Glycine Depletion. *Cell Reports* 33:108375 (11/1/2020) <https://scholars.duke.edu/individual/pub1464067>

López de León LR; Deaton KE; Junkin J; Deshusses MA. Capillary microbioreactors for VOC vapor treatment: Impacts of operating conditions. *Chemosphere* 258:127286 (11/1/2020) <https://scholars.duke.edu/individual/pub1452640>

Cardones AR. Drug reaction with eosinophilia and systemic symptoms (DRESS) syndrome. *Clin Dermatol* 38:702 (11/1/2020) <https://scholars.duke.edu/individual/pub1462990>

Drea CM; Crawford JC; Boulet M. Lack of evidence for pheromones in lemurs. *Curr Biol* 30:R1355 (11/1/2020) <https://scholars.duke.edu/individual/pub1465330>

Chiang RS; Parish A; Niedzwiecki D; Kappus MR; Muir AJ. Impact of Malnutrition on Outcomes in Patients Undergoing Transjugular Intrahepatic Portosystemic Shunt Insertion. *Digest Dis Sci* 65:3332 (11/1/2020) <https://scholars.duke.edu/individual/pub1428417>

Cholan PM; Han A; Woodie BR; Watchon M; Kurz AR; Laird AS; Britton WJ; Ye L; Holmes ZC; McCann JR. Conserved anti-inflammatory effects and sensing of butyrate in zebrafish. *Gut Microbes* 12:1 (11/1/2020) <https://scholars.duke.edu/individual/pub1463336>

Nevison C; Parker W. California Autism Prevalence by County and Race/Ethnicity: Declining Trends Among Wealthy Whites. *J Autism Dev Disord* 50:4011 (11/1/2020) <https://scholars.duke.edu/individual/pub1434810>

Steinbach WJ. Latest Thoughts on Treating Pediatric Mucormycosis. *J Pediatric Infect Dis Soc* 9:640 (11/1/2020) <https://scholars.duke.edu/individual/pub1462454>

Yang T; Velagapudi R; Terrando N. Neuroinflammation after surgery: from mechanisms to therapeutic targets. *Nat Immunol* 21:1319 (11/1/2020) <https://scholars.duke.edu/individual/pub1462987>

Heston SM; Young RR; Hong H; Akinboyo IC; Tanaka JS; Martin PL; Vinesett R; Jenkins K; McGill LE; Hazen KC. Microbiology of Bloodstream Infections in Children After Hematopoietic Stem Cell Transplantation: A Single-Center Experience Over Two Decades (1997-2017). *Open Forum Infect Dis* 7:ofaa465 (11/1/2020) <https://scholars.duke.edu/individual/pub1465225>

Campos FA; Villavicencio F; Archie EA; Colchero F; Alberts SC. Social bonds, social status and survival in wild baboons: a tale of two sexes. *Philos T Roy Soc B* 375:20190621 (11/1/2020) <https://scholars.duke.edu/individual/pub1460817>

Reinhardt KM; Zerubavel N; Young AS; Gallo M; Ramakrishnan N; Henry A; Zucker NL. A multi-method assessment of interoception among sexual trauma survivors. *Physiol Behav* 226:113108 (11/1/2020) <https://scholars.duke.edu/individual/pub1457237>

Younge NE. Probiotics in routine clinical care of moderately preterm infants. *Am J Clin Nutr* 112:1153 (11/1/2020) <https://scholars.duke.edu/individual/pub1463897>

Kappus MR; Wolfe CR; Muir AJ. Direct-Acting Antivirals and Organ

Transplantation: Is There Anything We Can't Do? *J Infect Dis* 222:S794 (11/1/2020) <https://scholars.duke.edu/individual/pub1466352>

Tiley GP; Poelstra JW; Dos Reis M; Yang Z; Yoder AD. Molecular Clocks without Rocks: New Solutions for Old Problems. *Trends Genet* 36:845 (11/1/2020) <https://scholars.duke.edu/individual/pub1453026>

Hurst JH; Heston SM; Chambers HN; Cunningham HM; Price MJ; Suarez L; Crew CG; Bose S; Aquino JN; Carr ST. SARS-CoV-2 Infections Among Children in the Biospecimens from Respiratory Virus-Exposed Kids (BRAVE Kids) Study. *Clin Infect Dis* (11/3/2020) <https://scholars.duke.edu/individual/pub1464177>

Travis BA; Ramsey KM; Prezioso SM; Tallo T; Wandzilak JM; Hsu A; Borgnia M; Bartesaghi A; Dove SL; Brennan RG; Schumacher MA. Structural Basis for Virulence Activation of *Francisella tularensis*. *Mol Cell* (11/12/2020) <https://scholars.duke.edu/individual/pub1465202>

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