

REMNet Newsletter



March 2023| Issue 19

Upcoming Events

[Global Soil Biodiversity](#): 03/13/23 -
03/15/23

[Doing Science Biology Education](#):
03/23/23 - 03/25/23

[Texas ASM](#): 03/24/23 - 03/25/23

[Western NY ASM](#): 04/21/23

[ASM KY TN](#): 04/21/23 - 04/22/23

[AZSNV ASM](#): 04/22/23

[Rocky Mountain ASM](#): 04/23/23

[ASM Microbe](#): 06/15/23 - 06/19/23

[GRC](#): 06/25/23 - 06/30/23

[ABLE](#): 06/27/23 - 06/30/23

[BIOME](#): 07/10/23 - 07/14/23, 07/24/23 -
07/27/23

[SABER](#): 07/20/23 - 07/23/23

[ESA](#): 08/06/23 - 08/11/23

[ASM/ESCMID](#): 09/19/23 - 09/22/23

[SACNAS](#): 10/26/23 - 10/28/23

[ABRCMS](#): 11/15/18 - 11/18/23

[ASMCUE](#): 11/17/23 - 11/19/23

News from REMNet

Happy New Semester!

We're hoping you're all enjoying teaching your classes and doing your research. As always we're here at REMNet ready to support and celebrate your teaching and microbiome-related research - continue sharing the good news.

In Fall 2022 we co-hosted our second webinar in collaboration with ASM. With over 40 attendees from institutions across the country, it went really well and we hope has enabled folks to get going with their research and classes. The recordings from last year are freely available and available here on our [YouTube](#) Channel.

This past Summer Davida and Carlos REMNet attended ASMCUE to talk about doing microbiome work with your students on a budget - if you have resources to share or ideas - get in touch so we can add them [here](#). Our slides are [here](#)

In big news - We will be heading to in-person meetings this year and we want to see you there. See below for more information on how you can join us!

Last year Davida and Carlos were editors of a Special Topics Edition of *Frontiers in Microbiology*. It has since been expanded into a community series called Tools, Techniques, and Strategies for Teaching in a Real-World Context with *Microbiology*. This round we had 5

submissions. We've included some of the articles below. Check out the issue [here](#).

If you have other events we can share here

Email us: ugmicronet@gmail.com



Are you going to ASM Microbe or ESA?

Team REMNet is planning to attend both meetings and would like to offer workshops to REMNet members. We can cover travel and registration for a number of you. If interested, please go to the following google form and indicate your interest.

[Google Form](#)



Bean Beetle Workshops

We're sharing the news that the 2023 Bean Beetle Microbiome Project Workshops will be held online and in person. The online workshop will be conducted for 3 hours each day May 15-19, 2023. The in-person workshop will be held at Emory University, Atlanta, and will be conducted May 30 -June 2, 2023. For more details about the workshops, the benefits for faculty and students, the expectations of workshop participants, the online and in-person workshop agendas, and sample curricula for the bean beetle microbiome CURE, click [here](#)

News from our members

Presentation at the American Academy of Forensic Sciences

Pamela Marshall and colleagues presented their work entitled "Dating Crime Evidence With Microbes: The Ideal Forensic Clock?"

[Check out the Proceedings here](#)



Conference Presentations

Carlos Goller presented at two recent conferences.

Sjogren, C., & Goller, C. C. (2022). Developing Interdisciplinary and Inclusive Experiences Beyond the Classroom by Starting with a New CURE. Poster presented at the North Carolina Project Kaleidoscope (PKAL NC).

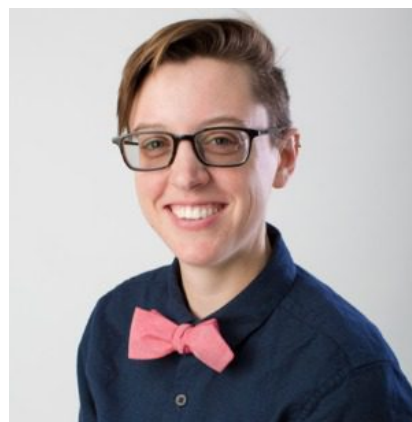


Goller, C. C. (2022). Evaluating How Learners Navigate Bioinformatics Narratives and Workflows. Presented at the Lilly Conference Online.

Two articles featuring undergraduate co-authors

Emmett Smith published two papers with former Earlham College undergraduates as authors describing a new tool for eDNA extraction in the field as well as best practices for LGBTQ+ inclusion during fieldwork!

Check them out [here](#) and [here](#)



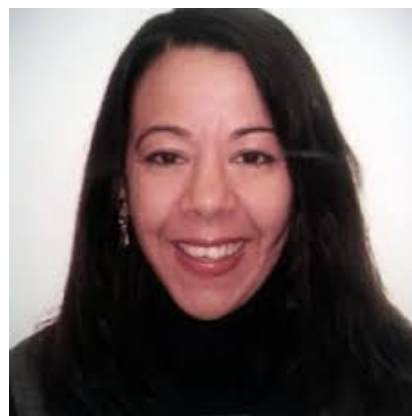
Articles from Dominican University Students

Bernadette Connors and her students have recently published two articles on microbial profiling from sediments. Two of her students have been accepted to Ph.D. programs.

Read the articles [here](#) and [here](#).

Exciting New Research

Christina Colon from Kingsborough Community College is an active part of a research group affiliated with the Natural History Museum that studies the population of coyotes in the New York Long Island area. They are applying DNA from scat samples and tissue recovered from roadkills. We look forward to hearing about this exciting project!



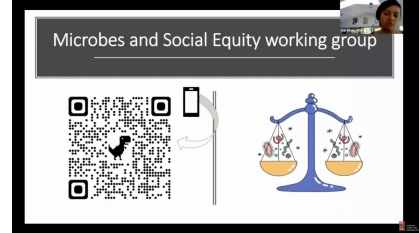
Selected presentations from ASM Microbe 2022

Microbes and Social Equity Group

The Microbes and Social Equity Group, featuring our REMNet

member Monica Trujillo from Queensborough Community College, held a symposium at the ASM Microbe Meeting last summer.

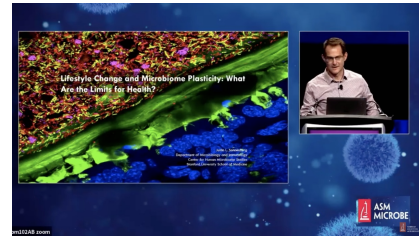
Watch the presentations [here](#)



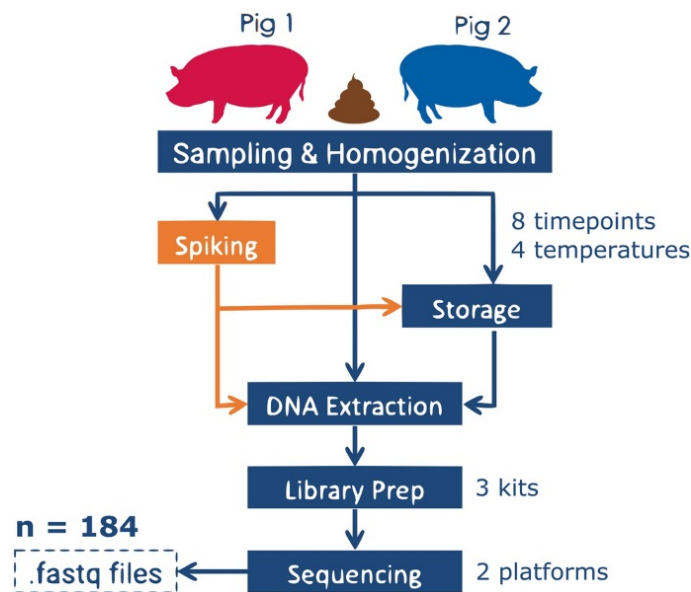
The changing human microbiome

ASM President, Steven Finkel, opened the ASM Microbe 2022 Presidents Forum: The Changing Human Microbiome with brief remarks before three, leading experts give captivating talks

Watch the presentations [here](#)



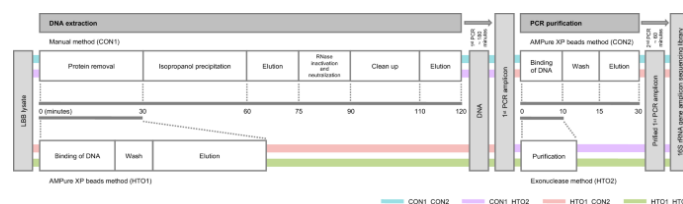
Exciting Recent Microbiome Studies and News



Assessing and removing the effect of unwanted technical variations in microbiome data - Scientific Reports

Varying technologies and experimental approaches used in microbiome studies often lead to irreproducible results due to unwanted technical variations. Such variations, often unaccounted for and of unknown source, may interfere with true biological signals, resulting in misleading biological conclusions.

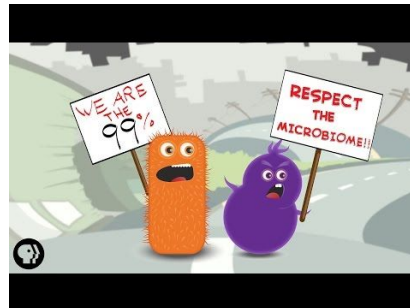
Read More



High throughput method of 16S rRNA gene sequencing library preparation for plant root microbial community profiling - Scientific Reports

Microbiota are a major component of agroecosystems. Root microbiota, which inhabit the inside and surface of plant roots, play a significant role in plant growth and health. As next-generation sequencing technology allows the capture of microbial profiles without culturing the microbes, profiling of plant microbiota has become a staple tool in plant science and agriculture.

[Read More](#)



Selected Articles from our Community Series at Frontiers in Microbiology "Tools, Techniques, and Strategies for Teaching in a Real-World Context with Microbiology, Volume II"



A gut microbiome tactile teaching tool and guided-inquiry activity promotes student learning

The gut microbiome and its physiological impacts on human and animal health is an area of research emphasis. Microbes themselves are invisible and may therefore be abstract and challenging to understand. It is therefore important to infuse this topic into undergraduate curricula, including Anatomy and Physiology courses, ideally through an active learning approach.



Development of a data science CURE in microbiology using publicly available microbiome datasets

Scientific and technological advances within the life sciences have enabled the generation of very large datasets that must be processed, stored, and managed computationally. Researchers increasingly require data science skills to work with these datasets at scale in order to convert information into actionable insights, and undergraduate educators have started to adapt pedagogies to fulfill this need.

[Read More](#)

[Read More](#)

Microbiome Resources from ASM

ASM has a variety of resources available to support your teaching and research needs. Check this out

[ASM Resources](#)



Our website is getting more content and we're looking for content. If you have anything you can share please get in touch with us [MicrobiomesforAll](#)



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