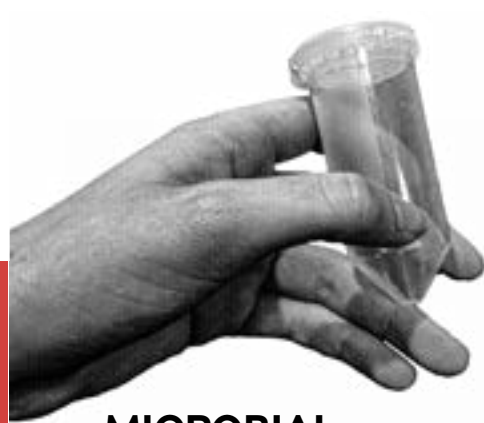


COR²E



MICROBIAL ANALYSIS, RESEARCH, & SERVICES

Dr. Kendra Maas and her unstoppable squad of students have been an irreplaceable force for COVID-19 testing at UConn. Their efforts on gargle testing and wastewater testing have helped to keep our campus safe and open, while saving copious amounts of \$\$\$ and time. Their work has also been noted by the [White House](#)! If you see someone with fiddling with a sewer in Storrs, chances are it's someone from MARS (hopefully not an alien). This project was also made possible by the incredible Dr. Rachel O'Neill, Director of the Institute for Systems Genomics.

ADVANCED LIGHT MICROSCOPY

Since our last newsletter, ALM acquired a STED super resolution fluorescence microscope; with the ability to take images below the defraction limit, this instrument is unrivaled. At the time it came the UConn, we became the second institution in the country to possess this microscope! The National Institute of Health's shared instrumentation grant made this possible, as well as the talent and hard work of Professor Christopher O'Connell.

DIGITAL EXPERIENCE GROUP

Our newest member of the COR²E family. Born out of the DX Lab, Brian Daley, Michael Vertefeuille, and Joel Salisbury have led this facility through some insightful projects, like WellScan (to help food banks know their inventory) and Sourcery (to widen access to research documents). Additionally they've contributed to COVID-19 testing efforts with MARS and SHaW by building <https://covid-testing.uconn.edu/>, with the talent of their directors and Emily Ha. Cool stuff.

PROTEOMICS AND METABOLOMICS

PFM has moved from the Biophysics Building to the Pharmacy/Biology Building! Say hi in rooms 511 and 513. Additionally, they've welcomed Dr. Jen Liddle to their team. Jen's experience at UC Boulder, the Children's Hospital of Philadelphia, and UPenn make her an asset for COR²E; her goal is to develop a "creative, customized partnership between the diverse needs of the Connecticut research community and the analytical capabilities" that PMF has to offer. Welcome to the team Jen, we are ecstatic to have you!

BIOSUPPLY

Squared Labs wants to shoutout Xiaoyang Liu and his team at BioSupply for providing resources, materials, and scientific goods to our research partners at UConn: especially throughout the pandemic. Without BioSupply, our facilities would be unable to function and complete their unparalleled search. Thank you BioSupply and Xiaoyang!

STATISTICAL CONSULTING SERVICES

In our last newsletter, this facility had yet to join COR²E- through the directorship of Tim Moore, SCS provides advice statistical problems and analyzes data. Graduate students, faculty members, as well as non-UConn clients in government and industry are welcome to utilize the SCS team for project help and consultation services. Current projects include understanding the link between racial microaggressions and trauma symptoms in the UConn community, and developing an application to help attorneys detect biases in jury member selection.

The SCS is also working in close collaboration with the PMF facility on a large proteomics project from the Animal Science department. They are also assisting the MARS facility with analysis of University COVID-19 samples. We hope that these inter-COR²E collaborations will continue to grow and expand in the future!

Q: Why did the chicken cross the road? :]
A: He didn't know how to properly social distance.

NEW

- 1.1: Well, COVID-19. Our facilities are adjusting accordingly, with new guidelines and reservation set-ups. This newsletter goes to show that the top-notch work has continued throughout the last year despite these challenges.
- 1.2: The Statistical Consulting Services and Digital Experience Group facilities! In our last newsletter, these facilities had not yet joined the COR²E team. Read on to see the awesome projects they've taken on.
- 1.3: Squared Labs has continued moving and shaking since our last newsletter, to Sarah O., Sarah W., Matt, Chris, Shelby, Michaela, Ben, and Sam, we are so grateful to have you!

FACILITIES

Advanced Light Microscopy
BioSupply
Biophysics
Electrical/Electronic: Technology and Repair
Flow Cytometry
Mechanical/Glass: Design and Fabrication
Microbial Analysis, Research, and Services
Nuclear Magnetic Resonance
Proteomics and Metabolomics
Statistical Consulting Services
Digital Experience Group

JOBS

DESIGNERS, DEVELOPERS, AND CONTENT CREATORS

As always, Squared Labs is always happy to take on new undergraduate talent for our website, graphic design, and research-supporting endeavors. If you know of such a student (or ARE such a student), reach out to us at squaredlabs@uconn.edu.



For those who are not aware, Squared Labs is a multimedia studio comprised of UConn's top undergraduate student developers, designers, marketers, illustrators, etc. Together, they build stuff that support UConn Research. Their current major projects include adding a new design section to their website and assisting with UConn's pooled testing.

Find them online @ squaredlabs.uconn.edu

illustration

Squared Labs offers an illustration service for research publications. If you have a request for journal cover art we'll do it for free! [illustration-request-core.uconn.edu](https://www.uconn.edu/illustration-request-core)

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