

WORKING TOGETHER TO BETTER UNDERSTAND AND INTERACT WITH MICROBIAL WORLDS

We provide industry partners with an edge

In collaboration with industry partners, we develop powerful new tools and methods for leveraging the knowledge of the microbiome and technological advances to improve healthcare and wellness, benefit the environment, and much more. Our capabilities when it comes to analyzing and manipulating bacteria, viruses, and other microorganisms offer unique opportunities for existing and emerging industries.

Connect with the leading microbiome university

The Center for Microbiome Innovation is led by world-renowned microbiome researcher Rob Knight and 14 other UC San Diego professors from across campus—each with a unique approach to microbiome studies—and a core team dedicated to initiating and following through on collaborations with industry partners.

The cross-disciplinary center leadership comes from UC San Diego's School of Medicine, Jacobs School of Engineering, Skaggs School of Pharmacy and Pharmaceutical Sciences, Divisions of Biological and Physical Sciences, Scripps Institution of Oceanography, and more.

At a Glance: Center for Microbiome Innovation

Our deep collaborations within and across disciplines and industries are unique, and critical for advancing microbiome research.

- 120,000+ microbiome samples processed per year
- \$25M+ in microbiome-research funding from industry
- 140+ UC San Diego faculty members
- 2.2 M+ academic research citations
- Research powerhouse: UC San Diego is ranked #3 in the nation for public research institutions and receives \$1.4 billion in annual research funding

Application Areas

- Clinical research
- Wellness and aging
- Consumer products
- Environment
- Energy
- Food Science

Technical Strengths

- High throughput data analysis capabilities including: Metagenomic, metatranscriptomic, metabolomic, and multiplex proteomics
- Gnotobiotic animal models
- *In vitro* and *in silico* modeling
- Detection and analytical technologies
- Big data science
- Artificial Intelligence and Machine Learning

WORK WITH US TO SOLVE YOUR PRESSING CHALLENGES IN MICROBIOME SCIENCE



SPONSORED RESEARCH

Collaborate with our world-class microbiome researchers through directed research projects.

- Expand your R&D program
- From proof-of-concept projects to multi-year options
- Develop new research capabilities without taking on internal overhead
- Access supercomputing and big-data-analytics capabilities



Workforce Development

We prepare graduate students and postdoctoral researchers to innovate and lead in the rapidly evolving microbiome sciences.

- Recruit the most talented students and postdocs
- Embed a visiting industry fellow in one of our labs
- Attend invitation-only workshops, conferences



From Laboratories to Market

At UC San Diego, promising advances are translated to market for maximum impact. We offer many technology development and licensing opportunities.



Partner with us

Contact our executive director for more information on how to join our growing team of industry collaborators.

Managing Team

Prof. Rob Knight

Founder and Faculty Director
Professor of Pediatrics and Computer Science and Engineering

robknight@ucsd.edu

Dr. Andrew Bartko

Executive Director
Professor of Practice, Bioengineering
Jacobs School of Engineering

abartko@ucsd.edu

Dr. Austin Swafford

Director of Research - Innovations
Jacobs School of Engineering

adswafford@ucsd.edu

Dr. Se Jin Song

Director of Research - Applications
Jacobs School of Engineering

sjsong@ucsd.edu

Dr. Yoshiki Vazquez-Baeza

Assoc. Director of Bioinformatic Integration
Jacobs School of Engineering

yoshiki@ucsd.edu

Media Contact

Brittanie Collinsworth

Director of Communication & Marketing

b4collinsworth@ucsd.edu

UC San Diego
Jacobs School of Engineering
9500 Gilman Drive
La Jolla, California 92093-0413

CMInfo@ucsd.edu
cmi.ucsd.edu