

# 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 knowledge of the microbiome and technological advances to improve health care 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 16 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
- \$3M+ per year in microbiome-research funding from industry
- 140+ affiliated UC San Diego faculty
- 1.5M+ academic research citations
- · Research powerhouse: UC San Diego is ranked #7 in the nation for R&D 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, 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

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