SPECIALIZED CERTIFICATE IN TRANSLATIONAL SCIENCE

As new biomedical product companies continue to emerge and mature in San Diego’s vibrant health innovation ecosystem, entrepreneurial research and development (R&D) professionals are in high demand—biomedical products encompass everything from drugs, cell and gene therapies, to medical devices, including diagnostics, and digital health products.

The Specialized Certificate in Translational Science provides an integrative and comprehensive understanding of what it takes to innovate in biomedical R&D, from product idea to commercialization, in a rapidly changing environment. The program aims to develop well-rounded aspiring biomedical leaders, innovators, and entrepreneurs, and teach the principles and tools of translational science applied to the discovery/design and development of biomedical products through didactics and case studies.

Our multidisciplinary faculty team constantly co-develops and updates course content, providing expertise on emerging knowledge and practices in their respective fields, thus ensuring that the certificate program remains up to date in the rapidly evolving discipline that is translational science.
**Key Topics**
- Biomarkers
- Omics
- Precision medicine
- Translational imaging
- Intellectual property
- Biotechnology
- Drugs
- Cell & gene therapy
- Diagnostics
- Medical devices
- Digital health
- Regenerative medicine

**Benefits**
- Online synchronous zoom lessons scheduled during weekdays’ early evening hours for maximum flexibility
- Hands-on curriculum taught by experienced biomedical industry professionals
- Learn immediately applicable skills in the biomedical industry
- Gain practical training to develop as an integrative and entrepreneurial biomedical R&D professional
- Engage in San Diego’s biomedical community and UC San Diego’s academic resources

**Course flow**

**Required Courses**
- Translational Research Fundamentals
- Applied Translational Research

**Electives**
- Applied Translational Research II
- Translational Regenerative Medicine

**Capstone Project**

**Become a biomedical leader, innovator, or entrepreneur and accelerate the translation of ideas into high-quality and highly differentiated biomedical products**

For more information, contact:
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TRANSLATIONAL RESEARCH FUNDAMENTALS

Gain real-life, integrative, and comprehensive understanding of translational science applied to the discovery/design and development of biomedical products, from drugs and cell & gene therapy to medical technology, including devices, wearables, diagnostics, and digital health.

AIMED AT
- Biomedical and healthcare professionals
- Graduate students and post-doctoral researchers in a scientific, engineering, or business field

with the motivation and potential to become leaders, innovators, or entrepreneurs.

WHEN
- Lessons: Tuesdays 6 - 8 pm
- Experts Roundtable event with faculty: One Wednesday from 6 to 8 pm during the quarter
- Course offered twice a year: Winter quarter (Q1) and Summer quarter (Q3)

TOPICS COVERED
- Biomarkers
- Omics
- Precision Medicine
- Translational Imaging
- Intellectual Property
- Biotechnology
- Drugs
- Cell & Gene Therapy
- Medical Devices
- Digital Health
WHAT IS TRANSLATIONAL SCIENCE?

“The (discipline) turning observations in the laboratory, clinic and community into interventions that improve the health of individuals and the public — from diagnostics and therapeutics to medical procedures and behavioral changes.”

- National Center for Advancing Translational Sciences, NIH

Faculty of Biomedical Industry Leaders

Pierre Riviere, PhD
Founder & Chief Executive Officer, Peptide Logic

Amit Kumar, PhD
Chief Executive Officer, Anixa Biosciences

Andrew Baker, BEng
Managing Director, Business Management, Industrial & Healthcare Business Unit, Maxim Integrated

Robert V. Alexander, PharmD, PhD
Senior Director, Clinical Research & Medical Affairs, Exagen Diagnostics

Regent Laporte, DVM, MSc, PhD
Senior Director, Translational Pharmacology, Peptide Logic

Kanthi A. Kollengode, MD, MAS
Associate Medical Director, Clinical Development, & Lead Physician, ozanimod for Crohn’s disease, Bristol-Myers Squibb

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Scholarship available for Postdoctoral Researchers

Contact us for more information

UC San Diego
Altman Clinical and Translational Research Institute

UC San Diego
School of Medicine

UC San Diego EXTENSION