UC San Diego

NIH T32 PI Informational Meeting
October 15, 2020 | 2:00 p.m.

Office of Research Affairs + The Graduate Division

AGENDA

- Updates on NIH requirements
- Institutional resources: ORA, Faculty Leadership & Development, and The Graduate Division
- Translational Science Certificate

WELCOME & NIH UPDATES

Professor Mark Lawson, Faculty Director – Postdoctoral Training and Education

- NIH Requirement Highlights
  - Coordination of a single Institutional Letter of Support and shared resources for training grants;
  - Mentor training for faculty members to ensure high-quality trainee experiences;
  - Support for program assessment and measuring trainee learning outcomes; and
  - Publish training program outcomes on public websites.

Summary of Requirements and Oversight Areas

Research Affairs

Administrative Support

Centralized coordination of single Institutional Letter of Support—OPRSA

Efficient use of central resources between training grants. Coordination of education resources to support training grants—OPRSA/Grad Division/HS RSC

GAPS

Data collection and analysis

Coordination of outcomes and data tracking

Database for submissions, data table creation, trainee tracking, and outcomes (HS)

Commitment to Culture of Excellence

Scientific rigor and reproducibility—PIs & RCI

Responsible Conduct of Research—RCI

Core facilities and technological resources—varies, ORA

Safety of trainees—EHS

External reviews of training grant programs—PI

Equity, Diversity, and Inclusion

Enforce policies, procedures, & oversight to prevent discriminatory harassment

Measures to support diverse, positive, supportive, and inclusive training environment for trainees, staff, faculty and leadership

Assure accessibility to trainees with disabilities

Academic Affairs/Health Sciences

Support for Mentors

Protected time for mentoring, training, research

Consideration of teaching & mentoring in tenure & promotion

Start-up funds (support early career mentors)

Bridge funding for faculty (support mentors experiencing a funding hiatus) — Academic Senate

Mentor Quality

Diverse cohort of mentors (underrepresented minorities, gender, career stage, etc.)—PIs

Remediation or removal of poorly performing faculty mentors—PIs

Foster and reward excellence in training and mentoring—Dept. Chairs

GAPS

Training for Faculty Mentors of research trainees —Faculty Leadership and Development (Ellen Beck)

Graduate Division

Support for Trainees

Continued funding for predoctoral trainees moving off grants to ensure timely completion of degree

Access to student support services including professional development and job search support

Bridge funding for graduate students

Safety net of back-up mentors

Teaching + Learning Commons

GAPS

Program Evaluation

Support for program evaluation and assessment of trainee outcomes

INSTITUTIONAL RESOURCES

Cory Davis, Research Scholar Manager Postdoctoral and Research Scholar Affairs, Office of Research Affairs

- Training Grant website: trainggrants.ucsd.edu
- Institutional Support Letter process for new proposals and renewals

INSTITUTIONAL RESOURCES

Ellen Beck, Faculty Director, Faculty Leadership and Development

- Mentoring Consultations

INSTITUTIONAL RESOURCES

Tamara Schaps, Assistant Dean of Graduate Strategic Initiatives, The Graduate Division

- Matching graduate student fellowships, usually a 4:1 ratio
- Supporting diversity goals of the institution
- Request Form: https://bit.ly/SDFMatchRequest

MARK YOUR CALENDARS

Better outcomes and greater efficiency: Aligning goals, activities and assessments for training programs and responding to the new NIH requirements

Presenters: Bennett Goldberg & Denise Drane, Northwestern University

Friday, November 6th, 2020 from 12:00 to 2:00 p.m. PT

Spotlight on a UC San Diego Program: Translational Science Certificate

Colin Depp, Ph.D., Director, Research Education and Training, Clinical Translation Research Institute
Regent Laporte, DVM, MSc, Ph.D., Program Director, Specialized Certificate in Translational Science
Maria Paz Rodriguez, DDS, MAS, Course Assistant, Specialized Certificate in Translational Science

UC San Diego

Graduate Program in Translational Science

Regent Laporte, DVM, MSc, PhD
Program Director
Altman Clinical and Translational Research Institute

UC San Diego
School of Medicine

UC San Diego
Altman Clinical and Translational Research Institute

UC San Diego
Extension

Translational Science

From bench to bedside!

Discovery/Design

Development

Commercialization

Translational science is the discipline “turning observations in the laboratory, clinic, and community into interventions that improve the health of individuals and populations – from diagnostics and therapeutics, to medical procedures and observational behaviors.”

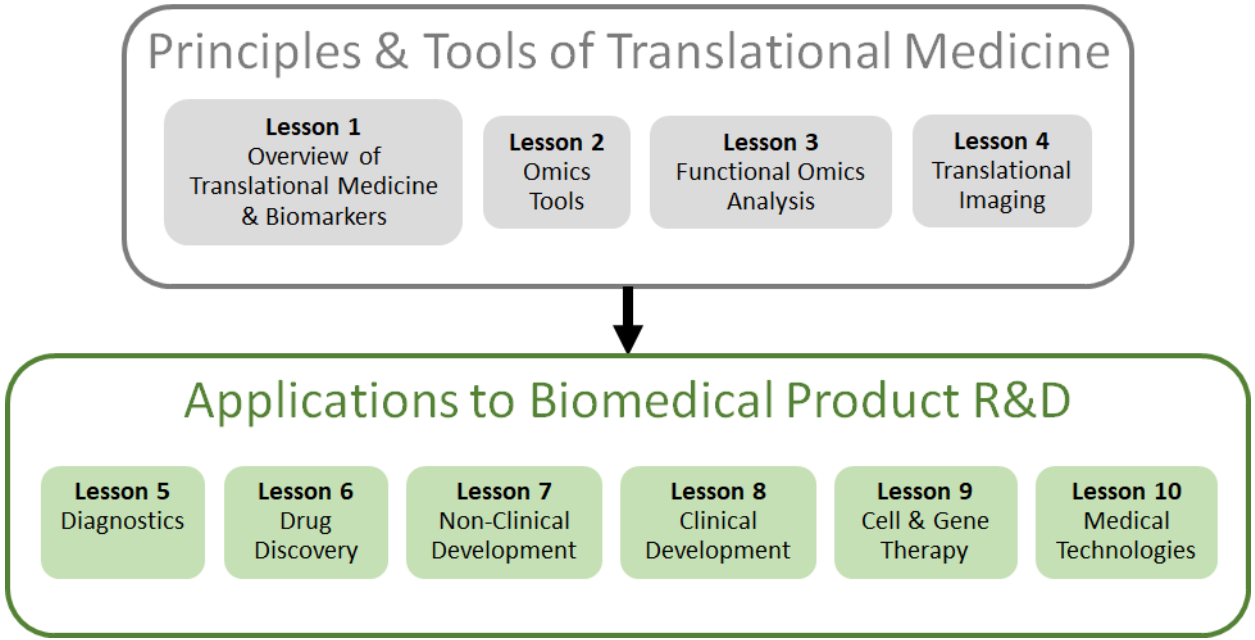
- National Center for Advancing Translational Sciences, NIH

Goals: Accelerate and improve efficiency and effectiveness of the discovery/design & development process

All biomedical products: From drugs and cell & gene therapy to medical technologies, including devices, wearables, diagnostics, and digital health

CLRE-236 Translational Research Fundamentals

Objective: Learn about the application of translational science principles and tools to the discovery/design and development of biomedical products



- Tuesdays from 6 to 8 PM
- Offered twice a year: Winter and Summer quarters

CLRE-236 Translational Research Fundamentals

Principles & Tools

Applications

Week	Lesson	Faculty
1	Overview of Translational Medicine & Biomarkers	**Regent Laporte**, DVM, MSc, PhD - Senior Director, Translational Pharmacology, Peptide Logic **Kanthi Kollengode**, MD, MAS - Associate Medical Director, Clinical Development, Bristol-Myers Squibb
2	Omics Tools	**Timothy R. Geiger**, PhD - Field Applications Manager - North America West, ProteinSimple/Bio-techne
3	Functional Omics Analysis	**Elizabeth Brunk**, PhD - T32 Cancer Therapeutics Training Fellow, Moores Cancer Center, University of California San Diego
4	Translational Imaging	**Patrick McConville**, PhD - Vice President, Non-Clinical Research Services, inviCRO
5	Diagnostics	**Roberta V. Alexander**, PharmD, PhD - Senior Director, Clinical Research & Medical Affairs, Exagen Diagnostics **Kanthi Kollengode**, MD, MAS - Associate Medical Director, Clinical Development, Bristol-Myers Squibb
6	Drug Discovery	**Pierre Riviere**, PhD - Founder & Chief Executive Officer, Peptide Logic
7	Non-Clinical Development	**Marina Seme Nelson**, PhD - Drug Development Leader, Early Phase Development Solutions, Covance Laboratories
8	Clinical Development	**Mark S. Hixon**, PhD - Principal, Mark S. Hixon Consulting
9	Cell & Gene Therapy	**Amit Kumar**, PhD - Chief Executive Officer, Anixa Biosciences
10	Medical Technologies	**Andrew Baker**, BEng - Managing Director, Business Management, Industrial & Healthcare Business Unit, Maxim Integrated

peptide logic

Bristol Myers Squibb

bio-techne

R&D SYSTEMS | NOVUS BIOLOGICALS

TOCRIS | protein simple | ACD

UC San Diego Moores Cancer Center

Invicro

exagen DIAGNOSTICS

Patient Focused. Discovery Driven.

COVANCE

Mark S. Hixon Consulting LLC

Pragmatic approaches to drug discovery challenges

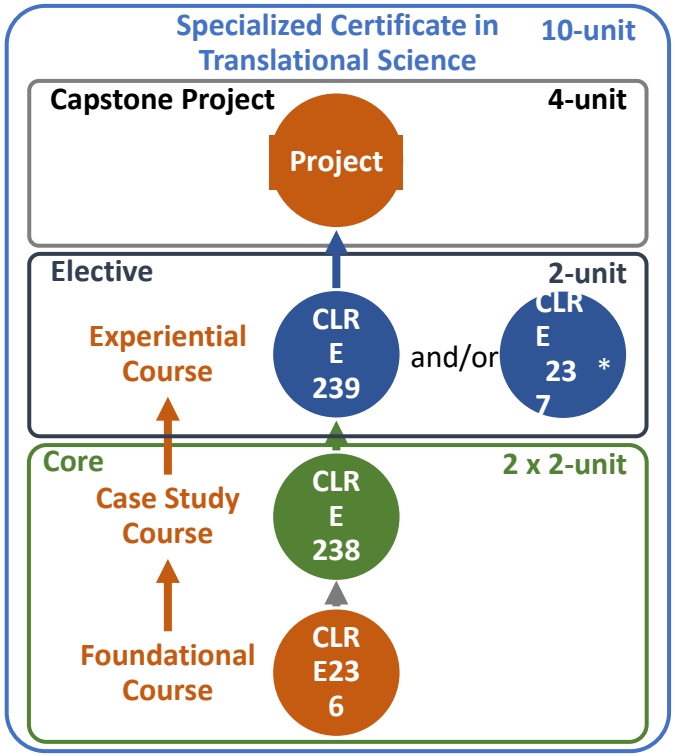
anixa BIOSCIENCES

maxim integrated

UC San Diego

Altman Clinical and Translational Research Institute

Certificate Program



CLRE-236: Translational Research Fundamentals
CLRE-237: Translational Regenerative Medicine
CLRE-238: Applied Translational Research
CLRE-239: Applied Translational Research II

Learning Objectives

Quarter 4
- Apply acquired knowledge and skills in a **mentored individual- or team-based project** (e.g., practice-based work, simulation, field-based work, internship) in an academic or industrial setting

Quarter 3
- Emulating the biomedical industry R&D *modus operandi*, **mentored student teams** determine the translational and iterative chain of events from ideation to commercialization for **an existing or a potential new biomedical product** by analyzing publicly disclosed information, **building a business case**, and **defending it** in front of a jury of biomedical R&D leaders
- Learn and apply teamwork, brainstorming, and oral presentation methods

Quarter 2
- Through a **case study**, learn how to use publicly disclosed information to reconstruct the entire translational and iterative chain of events **for an existing biomedical product from ideation to commercialization**
- Develop critical thinking and slide design skills

Quarter 1
- Learn about the **application of translational science principles and tools to the discovery/design and development of biomedical products**—from drugs and cell & gene therapy to medical technologies, including devices, wearables, diagnostics, and digital health

*: Learning objective is to acquire the skills needed to translate **stem-cell-based therapies** from **bench to bedside**

Certificate Program

- Maximal flexibility:
  - Weekday evenings 6 to 8 pm
  - Once a week, one course per quarter
  - Four courses total, each offered twice a year
- Flexibility to complete the certificate within 1 to 5 years
- No need to commit to the whole certificate at once, only one course at a time

Course	Summer	Fall	Winter	Spring
CLRE-236	✓		✓	
CLRE-237			✓	
CLRE-238		✓		✓
CLRE-239	✓		✓	
Capstone		✓		✓

FUTURE PD/PI MEETING TOPICS

Possible Topics:

- NIH requirements and priorities
- Assessment: Program Evaluation & Trainee Outcomes
- Mentor Training
- Retention (grad division, postdoc office)
- How to talk about reproducibility in your T32 grant
- Resources/classes for Data Table support, templates, etc.
- Tips from Successful PIs—What I've learned submitting my grant.

Other ideas?

QUESTIONS?

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