

BOOT CAMP

DRUG DISCOVERY AND DEVELOPMENT

PROGRAM

January 4–15, 2016

Center for Integrative Proteomics Research Rutgers University • Busch Campus 174 Frelinghuysen Rd Piscataway, NJ 08854-8076

iqb.rutgers.edu/bootcamp



Institute for Quantitative Biomedicine at Rutgers

Graduate Program in Quantitative Biomedicine







Interdisciplinary Quantitative Biology Boot Camp Drug Discovery and Development

The Center for Integrative Proteomics Research, home to the Institute for Quantitative Biomedicine, and the Graduate Program in Computational Biology and Molecular Biophysics (soon to be renamed the Graduate Program in Quantitative Biomedicine), are delighted to be hosting the Third Annual Rutgers Interdisciplinary Quantitative Biology Boot Camp in Drug Discovery and Design. Boot Camp is designed to augment education for quantitative and biological scientists. Our overarching goal is to introduce students of all ages to the value of integrating biology and medicine with mathematics, physics, chemistry, computer science, statistics and biostatistics, and engineering.

The immersive two-week Boot Camp will provide broad introductory exposure to the language, culture, and experimental/theoretical underpinnings of molecular biology, macromolecular biochemistry/biophysics, structural biology, computational biology, systems biology, and bioinformatics.

Instruction will take the form of lectures on the A-to-Z of drug discovery and development as well as a broad range of collaborative hands-on workshops for simulating the qualities of the small molecules under study as well as their interactions with target molecules and the more complex hosts and populations within which they operate. There will also be career development activities, tours of some of Rutgers' state-of-the-art facilities for interrogating biological phenomena, student-driven topics-of-the-day, fun activities for relaxing, and two end-of-week networking opportunities.

The final afternoon of the Boot Camp will be devoted to a student-led simulation of a so-called briefing package and an Oncologic Drugs Advisory Committee (ODAC) meeting, key prerequisites for getting FDA approval. This event will involve a cooperative synthesis of the material covered in the two-week program.

The Boot Camp would not have been possible without tireless efforts of more than sixty contributors from across Rutgers and from our partners at Merck, Bristol-Meyers Squibb, Colgate-Palmolive, Novartis, the Novartis Institutes for Biomedical Research, the Cambridge Crystallographic Data Centre, Fox Rothchild LLP, and Landing Expert Career Coaching.

Special thanks go out to Luz Fajardo, Kenneth Dalenberg, Bernie Cariaga, Jonathan Hackett, and Don Corrette of the Center for Integrative Proteomics Research as well as students Krupa Shah, Maria Qadri, Kathryn Drzewiecki, Chris Wakim, Domonick Panzera, Grant Bilker, Sophia Tan, and Ryan Woltz.

Note:

All sessions will be held in

PROTEOMICS, ROOM 120

unless designated otherwise



Laptop computers are required for sessions designated with this icon

		Monday, January 4 th , 2016
	9:00 AM	Welcome and Orientation Gail Ferstandig Arnold, IQB
SU	9:10 AM	Nexus of Academe and Drug Discovery and Development Christopher Molloy, ORED
MORNING	9:30 AM	What is Cancer? Shridar Ganesan, CINJ
	10:30 AM	Coffee/Tea Served
	10:50 AM	What is a Drug? What is Discovery? What is Development? David Kimball, ORED
	11:40 AM	What is Precision Medicine? Robert DiPaola, CINJ
	12:30 PM	Lunch Served – Proteomics First Floor Lobby
AFTERNOON	1:30 PM	Career Byte: Branching Out: Meeting Colleagues Maria Qadri, BME
AFTEI	2:30 PM	NewCo Organization Stephen K. Burley/Gail Ferstandig Arnold, IQB • Review of Boot Camp program and goals • Organizing participants into NewCo
	3:30 PM	Target Exploration Workshop Michael Fitzgerald, Colgate-Palmolive • Is the EGF/EGFR signaling pathway a sensible target for treating cancer? Coffee/Tea available throughout afternoon
	4:30 PM	Dinner Served - <i>Proteomics First Floor Lobby</i> Trivia for Scientists

WEEK 1 • January 4 - 8, 2016

Tuesday, January 5th, 2016

MORNING	9:00 AM 9:15 AM 10:00 AM	NewCo Report Participants Signaling Pathways Central to Cell Growth and EGF/EGFR Steven Zheng, CINJ Initiating a Protein Kinase Drug Discovery Program I Peter Young, Biotech Executive and Consultant Coffee/Tea Served	
	11:05 AM	Initiating a Protein Kinase Drug Discovery Program II Peter Young, Biotech Executive and Consultant	
	11:50 AM	Lunch (independent)	
N	12:40 PM	☐ Career Byte: Mapping Out Opportunities Ahead Toi Tyson, Rutgers Career Office; Michael Fitzgerald/Hallie Strotman/Camille Zenobia, Colgate-Palmolive	
Ş	1:10 PM	NewCo Meeting Stephen K. Burley/Gail Ferstandig Arnold, IQB	
AFTERNOON	1:40 PM	■ EGFR Molecular Visualization Workshop Shuchismita Dutta/Luigi DiCostanzo, RCSB PDB	
4	3:10 PM	Coffee/Tea Served	
	3:30 PM	 Amber Workshop: Simulating EGFR Breathing and Potential for Drug Binding, Part I David Case/Darrin York/Jason Swails/Hai Nguyen, CCB/Proteomics 	
	Wednesday, January 6 th , 2016		
	9:00 AM	NewCo Report Participants	
2	9:05 AM	What is Medicinal Chemistry? David Kimball, ORED	
Z		The state of the s	
Z	9:50 AM	Kinase Inhibitor Lead Discovery John Tokarski, BMS	
MORN	9:50 AM 10:35 AM	•	
MORNING		Kinase Inhibitor Lead Discovery John Tokarski, BMS	
MORN	10:35 AM	Kinase Inhibitor Lead Discovery John Tokarski, BMS Coffee/Tea Served	
MORN	10:35 AM 10:55 AM	Kinase Inhibitor Lead Discovery John Tokarski, BMS Coffee/Tea Served ☐ Cambridge Crystallographic Data Centre Amy Sarjeant, CCDC	
	10:35 AM 10:55 AM 11:25 AM	Kinase Inhibitor Lead Discovery John Tokarski, BMS Coffee/Tea Served Cambridge Crystallographic Data Centre Amy Sarjeant, CCDC Medicinal Chemistry Workshop Orientation John Westbrook, RCSB PDB	
TERNOON MORN	10:35 AM 10:55 AM 11:25 AM 12:10 PM	Kinase Inhibitor Lead Discovery John Tokarski, BMS Coffee/Tea Served Cambridge Crystallographic Data Centre Amy Sarjeant, CCDC Medicinal Chemistry Workshop Orientation John Westbrook, RCSB PDB Lunch (independent) Career Byte: Organization: A Way to Brand Yourself as Someone who is Responsible and Balanced Emily Arnold, RU School of Social Work	
	10:35 AM 10:55 AM 11:25 AM 12:10 PM 1:00 PM	Kinase Inhibitor Lead Discovery John Tokarski, BMS Coffee/Tea Served Cambridge Crystallographic Data Centre Amy Sarjeant, CCDC Medicinal Chemistry Workshop Orientation John Westbrook, RCSB PDB Lunch (independent) Career Byte: Organization: A Way to Brand Yourself as Someone who is Responsible and Balanced Emily Arnold, RU School of Social Work Rutgers iJOBS Janet Alder, NCB, GASA, RWJMS	
TERNOON	10:35 AM 10:55 AM 11:25 AM 12:10 PM 1:00 PM	Kinase Inhibitor Lead Discovery John Tokarski, BMS Coffee/Tea Served Cambridge Crystallographic Data Centre Amy Sarjeant, CCDC Medicinal Chemistry Workshop Orientation John Westbrook, RCSB PDB Lunch (independent) Career Byte: Organization: A Way to Brand Yourself as Someone who is Responsible and Balanced Emily Arnold, RU School of Social Work Rutgers iJOBS Janet Alder, NCB, GASA, RWJMS NewCo Meeting Stephen K. Burley/Gail Ferstandig Arnold, IQB In silico Medicinal Chemistry Workshop David Augeri, Translational Sciences;	
	10:35 AM 10:55 AM 11:25 AM 12:10 PM	Kinase Inhibitor Lead Discovery John Tokarski, BMS Coffee/Tea Served Cambridge Crystallographic Data Centre Amy Sarjeant, CCDC Medicinal Chemistry Workshop Orientation John Westbrook, RCSB Lunch (independent) Career Byte: Organization: A Way to Brand Yourself as Someone who is Responsible and Balanced Emily Arnold, RU School of Social Work	

WEEK 1 • January 4 - 8, 2016

Thursday, January 7th, 2016

	9:00 AM	NewCo Report Participants
MORNING	9:05 AM	ADME (Absorption/Distribution/Metabolism/Excretion) Imad Hanna, Novartis
	10:05 AM	Coffee/Tea Served
	10:35 AM	Small Molecule Pharmacokinetics (PK) Ry Forseth, Novartis
	11:35 AM	Small Molecule Pharmacodynamics (PD) Christina Won, Novartis
	12:15 PM	Lunch (independent)
AFTERNOON	1:15 PM	Career Byte: Securing an Industrial Position: A Hiring Manager's Perspective Joseph Duffy, Merck
	1:45 PM	□ PK/PD Modeling Workshop Ry Forseth/Christina Won, Novartis
		Coffee/Tea available throughout afternoon
	3:30 PM	NewCo Meeting Stephen K. Burley/Gail Ferstandig Arnold, IQB

Friday, January 8th, 2016

MORNING	9:00 AM 9:05 AM 10:05 AM	NewCo Report Participants Ethics Considerations/Informed Consent/Institutional Review Boards Eric Singer, CINJ Coffee/Tea Served
2	10:25 AM	The Why, When, What of Toxicology Testing in Drug Discovery and Development Sudheer Beedanagari, Bristol-Myers Squibb
	11:25 AM	Selecting the Oncology Drug Candidate Louis Lombardo, Bristol-Meyers Squibb
AFTERNOON	12:25 PM	Lunch (independent)
	1:30 PM	Career Byte: • Making a Winning CV Mike Kiledjian, CBN • GradFund Teresa DelCorso Ellmann, GSNB
	2:00 PM	NewCo Meeting Stephen K. Burley/Gail Ferstandig Arnold, IQB
	2:30 PM	Tumor Genome Profiling Workshop Chang Chan/Saurabh Laddha, CINJ
		Coffee/Tea available throughout afternoon
	4:30 PM	Networking Event; Dinner Served - Proteomics Lobby

WEEK 2 • January 11 - 15, 2016

6

4:00 PM

Monday, January 11th, 2016

		Monday, January 11°°, 2016
	9:00 AM	NewCo Report Participants
MORNING	9:15 AM	An Academia/Pharma Partnership that Led to Three Marketed Drugs for Treating HIV Infection Eddy Arnold, CABM/CCB/Proteomics
RN	10:10 AM	Coffee/Tea Served
M	10:30 AM	Patenting the Drug Candidate Vincent Smeraglia, ORC/Peter Butch, Esq., Fox Rothschild
	11:30 AM	NewCo Meeting Stephen K. Burley/Gail Ferstandig Arnold, IQB
	12:00 PM	Lunch (independent)
	1:00 PM	Career Byte: Giving an Engaging Presentation or Pitch Jerome Kukor, GSNB
AFTERNOON	1:30 PM	□ Tumor Transcriptome Profiling Workshop Chang Chan/Saurabh Laddha, CINJ
RN	3:15 PM	Coffee/Tea Served
¥FTE	3:35 PM	Amber Workshop: Simulating EGFR Breathing and Potential for
		Drug Binding, Part II David Case/Darrin York/Jason Swails/Hai Nguyen, CCB/Proteomics
	4:30 PM	PB & J and Popcorn - Proteomics Lobby; ODAC Movie/Think Tank Forum
	4:30 PM	PB & J and Popcorn - Proteomics Lobby; ODAC Movie/Think Tank Forum Tuesday, January 12 th , 2016
i	4:30 PM 9:00 AM	
i		Tuesday, January 12 th , 2016 NewCo Report Participants Preparing the Investigational New Drug Application (IND)
S _N	9:00 AM	Tuesday, January 12 th , 2016 NewCo Report Participants
RNING	9:00 AM 9:05 AM	Tuesday, January 12 th , 2016 NewCo Report Participants Preparing the Investigational New Drug Application (IND) Stephen K. Burley, Proteomics/IQB
MORNING	9:00 AM 9:05 AM 9:30 AM	Tuesday, January 12 th , 2016 NewCo Report Participants Preparing the Investigational New Drug Application (IND) Stephen K. Burley, Proteomics/IQB Design and Conduct of Phase 1/2 Clinical Trials Julie Reynes, Novartis
MORNING	9:00 AM 9:05 AM 9:30 AM 10:30 AM	Tuesday, January 12 th , 2016 NewCo Report Participants Preparing the Investigational New Drug Application (IND) Stephen K. Burley, Proteomics/IQB Design and Conduct of Phase 1/2 Clinical Trials Julie Reynes, Novartis Coffee/Tea Served
MORNING	9:00 AM 9:05 AM 9:30 AM 10:30 AM 11:00 AM	Tuesday, January 12 th , 2016 NewCo Report Participants Preparing the Investigational New Drug Application (IND) Stephen K. Burley, Proteomics/IQB Design and Conduct of Phase 1/2 Clinical Trials Julie Reynes, Novartis Coffee/Tea Served Design and Conduct of Phase 3 Clinical Trials Julie Reynes, Novartis Preparing the New Drug Application (NDA)
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AFTERNOON MORNING	9:00 AM 9:05 AM 9:30 AM 10:30 AM 11:00 AM 11:30 AM 12:00 PM	Tuesday, January 12 th , 2016 NewCo Report Participants Preparing the Investigational New Drug Application (IND) Stephen K. Burley, Proteomics/IQB Design and Conduct of Phase 1/2 Clinical Trials Julie Reynes, Novartis Coffee/Tea Served Design and Conduct of Phase 3 Clinical Trials Julie Reynes, Novartis Preparing the New Drug Application (NDA) Stephen K. Burley, Proteomics/IQB Lunch (independent) Career Byte: The Interview: You Are Onstage Alex Freund, Landing Expert Career Coaching

■ Tumor Proteome Profiling Workshop Justin Drake, CINJ

WEEK 2 • January 11 - 15, 2016

Wednesday, January 13th, 2016

	9:00 AM	NewCo Report Participants
MORNING	9:15 AM	Statistical Analysis Workshop: Analysis of Tumor Profiling Data Steve Buyske, HGINJ
RN	10:30 AM	Assemble in front of Proteomics for walk to tours:
MC		Keck Center for Collaborative Neuroscience Patricia Morton, Spinal Cord Injury Project (offered at 10:45 AM only)
		Applications of Quantitative Biology to Environmental Health Panos Georgopoulos, EOHSI
		 RDI2: A Look behind the Scenes at Advanced Computing Moustafa AbdelBaky, ECE
	10:45 AM 11:45 AM	Tour 1 Tour 2
	11.7371101	OPTIONS
		Tour 1 Tour 2
		1. Keck Center —> EOHSI
		2. Keck Center —> RDI2 3. EOHSI —> RDI2
Z		4. RDI2 -> EOHSI
NOO	1:00 PM	Lunch (independent)
AFTERNOON	2:00 PM	Career Byte: Using Social Media to Your Advantage Ina Nikolaeva, MMG
	2:30 PM	NewCo Meeting Stephen K. Burley/Gail Ferstandig Arnold, IQB
	3:30 PM	Preparation for Briefing Package/Oncologic Drugs Advisory Committee Simulation
		Coffine Tea available throughout afternoon
	5:00 PM	Downtown Meeting Meet in Proteomics Lobby

WEEK 2 • January 11 - 15, 2016

Thursday, January 14th, 2016

DNI	9:00 AM 9:15 AM	NewCo Report Participants Assemble in front of Proteomics for walk to tours: RUCDR Infinite Biologics: A Full Service Biorepository for the 21st Century Michael Sheldon, RUCDR;
MORNING	9:30 AM 10:30 AM	Bioimaging Carol Gardner/Jessica Cervelli, Pharmacy Tour 1 Tour 2 OPTIONS
AFTERNOON	11:40 AM	Tour 1 RUCDR -> Bioimaging Bioimaging -> RUCDR ORED Internship Program Tatiana Litvin-Vechnyak, OTC
AFTE	12:40 PM	Lunch (independent)
•	1:30 PM 2:00 PM	☐ Career Byte: Finding Jobs and Collaborators Using LinkedIn Itzamarie Chevere-Torres, Genetics Preparation for Briefing Package/Oncologic Drugs Advisory Committee Simulation Coffee/Tea available throughout afternoon
		Friday, January 15 th , 2016
MORNING	9:00 AM	Finalization of Presentation for the Briefing Package/Oncologic Drugs Advisory Committee Simulation Coffee/Tea available throughout morning
2	12:00 PM	Lunch Served - Eat in 9 career groupings, Proteomics Lobby
	1:00 PM	Main Event: Briefing Package/Oncologic Drugs Advisory Committee Simulation
	2:30 PM	Coffee/Tea Served
ERNOON	3:00 PM	Networking/Career Fair/"Speed Dating" Style Meet and Greets Dinner Served with Special Dessert - Proteomics Lobby

Moustafa AbdelBaky, Ph.D. Candidate

Electrical and Computer Engineering Rutgers University

Janet Alder, Ph.D.

Associate Professor, Neuroscience and Cell Biology Assistant Dean, Graduate Academic and Student Affairs Rutgers Robert Wood Johnson Medical School

Eddy Arnold, Ph.D.

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Masters Student of Social Work Rutgers University

Gail Ferstandig Arnold, Ph.D.

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Associate Director of Graduate Studies, Computational Biology and Molecular Biophysics/
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David J. Augeri, Ph.D

Director of Molecular Design and Synthesis Research Professor I Ernest Mario School of Pharmacy Rutgers University

Sudheer Beedanagari Ph.D.

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Program Coordinator, Spinal Cord Injury Project W.M. Keck Center for Collaborative Neuroscience Rutgers University

Grant Bilker

Undergraduate Student Rutgers University

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Director, Research Collaboratory for Structural Bioinformatics Protein Data Bank

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Justin M. Drake, Ph.D.

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Research Scientist Colgate-Palmolive

Ry Forseth, Ph.D.

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Alex Freund, B.S.

Founder and Career Coach, Landing Expert Career Coaching

Shridar Ganesan, M.D., Ph.D.

Director of Functional Genomics Shared Resource
Associate Director, Translational Science
Section Chief, Cancer Biology at Rutgers Cancer Institute of New Jersey
Full Member, Rutgers Cancer Institute of New Jersey
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Imad Hanna, Ph.D.

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Distinguished Professor and Chair, Cell Biology and Neuroscience Rutgers University

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Associate Vice President, Translational Research, Office of Research Commercialization Research Professor, Medicinal Chemistry Ernest Mario School of Pharmacy Member, Rutgers Cancer Institute of New Jersey Rutgers University

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Jude Ndubuisi Okonne, Videographer

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Cell Biology and Neuroscience Rutgers University

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Global Trial Leader Novartis Pharmaceuticals

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Sophia Tan, B.S.

Rutgers University

Jay Tischfield, Ph.D.

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Maria Voigt, M.A.

Outreach Coordinator, Research Collaboratory for Structural Bioinformatics Protein Data Bank Rutgers University

Chris Wakim

Undergraduate ARESTY Fellow Rutgers University

Christina Won, Pharm.D., Ph.D.

Senior Scientist Oncology Clinical Pharmacology Novartis Pharmaceuticals

John Westbrook, Ph.D.

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Lawrence Williams, Ph.D.

Professor, Chemistry and Chemical Biology Rutgers University

Ryan Woltz, Ph.D. Candidate

Chemistry and Chemical Biology Rutgers University

Darrin York, Ph.D.

Professor, Chemistry and Chemical Biology Member, Center for Integrative Proteomics Research Rutgers University

Peter R. Young, Ph.D.

Biotech Executive and Consultant

Steven Zheng, Ph.D.

University Professor and Chief, Division of Cancer Pharmacology Co-Leader, Cancer Pharmacology Program Rutgers Cancer Institute of New Jersey Rutgers Robert Wood Johnson Medical School

