REMEMBERING PAUL BOYER

MBI DIRECTOR’S REPORT

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   The Audree Fowler Fellows in Protein Science
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PAUL D. BOYER
1918 - 2018
REMEMBERING WITH GRATITUDE

PAUL D. BOYER

1918 - 2018
DIRECTOR'S REPORT
Dear Colleagues,

This year will be forever memorable in the history of our Institute because it marks the passing of our beloved Paul Boyer. His many scientific and academic accomplishments have been highlighted in several journals and it has been wonderful to hear so many colleagues speak about how much Dr. Boyer meant to them. We are grateful for his vision, his collegiality, his commitment to scientific excellence and his optimistic spirit, all of which became part of the culture of our institute. Thank you, Paul!

The last year was also marked by several changes in the MBIDP office and building. Two new SAOs, Stephanie Cuellar and Ashley TerHorst joined our office and have smoothly taken over the administration of the MBIDP and have quickly become familiar with our body of students and faculty. A new administrator assistant, Altagracia Alvarado is now the face behind the MBI emails, workshops, events and interactions with our body of students. Big kudos to Helen Houldsworth for “filling the blanks” as we completed searches and recruited this great team. We also welcome Mike Kane, our new building manager who has so efficiently adapted to UCLA and Boyer Hall and continued to take care of the Institute and Boyer Hall occupants.

Much of our attention has been placed on the renovations of Boyer 159, our premier conference room. The much needed upgrade was only possible because of the commitment and support of the Deans of Life Sciences, DGSOM and Physical Sciences as well as the Chair of Chemistry and Biochemistry. We could not have done it without you! The patio adjacent to the conference room will also be renovated by the end of November and will provide an outstanding space for events, meetings, student recruitment, informal discussions and celebrations. We are extremely excited to have this great space available for all the events, thesis defenses and scientific seminars. Thank you all for your patience and trust.

Highlights of the past year for the MBI included the Sigman Symposium honoring Professor Yigong Shi who delivered a memorable lecture entitled "Mechanism of pre-mRNA splicing by the Spliceosome". As in previous years, this was a wonderful event and I must acknowledge the MBI Sigman Lectureship Committee that includes Feng Guo, Reid Johnson and Jim Bowie (chair). Thank you for the outstanding selection and your continuous commitment to this event. Along these lines, the flagship of the institute, MBI Thursday Seminar Series has brought in fantastic talks and impressive scientists. Thank you to Margot Quinlan and Tracy Johnson and their committee for their hard, hard, hard work on this endeavor.

As can be easily noted in the Newsletter, the membership continues to thrive and the scientific caliber of our faculty is unquestionable. Here I must highlight a few honors received by our members: the election of Utpal Banerjee to the National Academy of Sciences, HHMI investigator award to Tamir Gonen, the William C. Rose Award given by the ASBMB to Steven Clarke, the Paul Sigler Prize given by Yale University to David Eisenberg and the American Heart Association Russel Ross Memorial Lectureship to Karen Reue. Congratulations!

Our graduate program is expanding, with a total of 145 students. We just welcomed our incoming class of 2018-2019 with 23 students. During this academic year, 14 students received their doctorates and combined they produced 119 scientific publications. They are our legacy and we are fully committed to constantly improve their training and research experience. I would take the opportunity to thank our home area directors: Feng Guo (BBSB), Jeff Long (CDB), Michael Carey (GREAT) and Peter Bradley (IMMP) who have placed a lot of energy into the recruitment of the incoming class and the guidance of current students. Our mission to reconnect with our large body of graduates has continued, through alumni newsletters and other options to connect with the program. During this coming year, alumni located in the LA area will be invited to attend the upcoming MBI retreat which will be in Lake Arrowhead. It
has been nice to receive feedback from some of them stating how much the institution, and the MBI in particular, meant to them at a critical time in their careers.

Through the generosity of our dear Audree Fowler, the MBI has been able to award four Audree Fowler Fellowships in Protein Science this past year. This has become a wonderful tradition and our graduate students are very appreciative for the opportunity to compete for this award. This year's awardees are: Michael Hughes (Eisenberg lab), Kanishk Jain (Clarke lab), William Barshop (Wohlschlegel lab) and Yuxi Liu (Yeates lab). The Jules Brenner Achievement Fellowship in Molecular Biology went to Aimee Flores (Lowry lab). Congratulations to all these outstanding graduate students! Finally, the 18th annual Boyer-Parvin recognition awards have continued to provide a stand-up salute to our body of post-doctoral trainees. This year, from 9 exceptional nominees, 3 were selected. The winners were Francis Mercer (Patricia Johnson's lab), Marcus Seldin (Jake Lusis’ lab) and Michael Hicks (April Pyle’s lab). This has been a special signature of the MBI, initiated by our founder, and we are committed to seek additional funds to continue the support of this important event.

As in previous years, the Imaging Workshop and the Biotechnology Workshops were a success with attendance to full capacity. We are preparing some slight modifications to the Imaging workshop to better support our community with more stratification in training (beginner, intermediate, advanced).

Hope to see you at our events, symposia and seminars!

Hasta pronto.

Luisa

Luisa Iruela-Arispe, Ph.D.
Director, Molecular Biology Institute
COMMITTEES
EXECUTIVE ADVISORY COMMITTEE
Amander Clark, Catherine Clarke, Alexander Hoffmann, Siavash Kurdistani, Sabeeha Merchant and Jerome Zack

MBI MEMBERSHIP
Arnold Berk (Chair), Alison Frand, Bennett Novitch, Thomas Vondriska and Megan McEvoy

THURSDAY SEMINARS
Margot Quinlan (co-Chair), Tracy Johnson (co-Chair), Douglas Black, Hilary Coller, David Eisenberg, Sri Kosuri, Michael Teitell and Tom Vallim

SIGMAN AWARD SELECTION
James Bowie, Feng Guo, Luisa Iruela-Arispe and Reid Johnson

AUDREE FOWLER FELLOWSHIP IN PROTEIN SCIENCE
Jose Rodriguez, Siavash Kurdistani, Kathrin Plath and Gregory Payne

JULES BRENNER SCHOLAR’S ACHIEVEMENT FELLOWSHIP IN MOLECULAR BIOLOGY
Jules Brenner, Amander Clark, Don Kohn and Timothy Lane

PHILIP J. WHITCOME FELLOWSHIP
Feng Guo, Jeffrey Long, Peter Bradley and Michael Carey

BOYER/PARVIN POSTDOCTORAL AWARDS
Karen Reue, Jose Rodriguez, Oliver Fregoso and Hilary Coller

MOLECULAR BIOLOGY INTERDEPARTMENTAL PH.D. PROGRAM
Luisa Iruela-Arispe, Peter Bradley, Michael Carey, Jeffrey Long and Feng Guo

2017-2018 ANNUAL RETREAT
Geoffrey Provonost (Chair), Aaron Van Loon, Brenda Molgora, Guillaume Urtecho, Samantha Edwards, Alex Sercel and Jessica Ochoa

ANNUAL RETREAT POSTER JUDGES
Peter Bradley, Michael Carey, Hilary Coller, Andrew Goldstein, Feng Guo, Luisa Iruela-Arispe, Tracy Johnson, Jeffrey Long, Margot Quinlan and Melissa Spence
ADMINISTRATIVE STAFF ACTIVITIES
It's a pleasure to update you on the administrative team that made the activities you read about in this report possible. I'm consistently impressed by the energy they bring to their roles, as well as their commitment to serve our Faculty and students and the teamwork they show each other.

In October we welcomed Altagracia Alvarado as our new Office Coordinator, replacing Megan Weitzel who moved on to an SAO position in north campus. Altagracia ("Gracie") is a recent graduate from UCLA and a passionate Bruin. Although new to the south campus science community and to many of the tasks she was faced with, she threw herself whole-heartedly into learning and adapting to her new role. She also brought her creative skills which have given our advertising materials, website and social media a much needed boost. She's made the position her own and become a valued member of the team.

At around the same time, we hired Stephanie Cuellar, and shortly after that Ashley TerHorst as new SAO's for the Molecular Biology IDP. (Yes, it was a busy fall quarter!). In a new organizational arrangement for us, Stephanie now takes primary responsibility for student recruitment, admissions and alumni relations and Ashley is responsible for continuing student activities and time-to-degree progress. Both Ashley and Stephanie joined us from other positions at UCLA, which helped them adapt to their new roles. Nevertheless, they worked tirelessly to become familiar with our MBI community and the nuances of an IDP, at a time when the academic quarter was already in full-swing. Their willingness to support each other and work as a team is a huge benefit to the program and gives us a greater capacity to support all aspects of our students’ education.

In the absence of any MBIDP SAO’s during the summer, new Bioinformatics SAO Mandy McWeeney held down the fort for both programs. We could not have survived this hectic time without her! She also generously shared her knowledge and experience with Stephanie and Ashley when they arrived, helping them get up to speed.

As a final summer challenge in the Graduate Programs office, we decided to initiate a remodel, to improve the awkward configuration and create three entirely separate and private offices for our SAOs. The work took much longer than hoped and Ashley was confined to temporary office space for several months after she started. However, I'm happy to report that all three SAOs are now in place and we have a much more functional suite!

Long-time Building Manager, Shawn Lockard, retired from UCLA at the end of 2018. Shawn had a long and successful career at UCLA and a deep knowledge of Boyer Hall, both the personnel and the infrastructure. He left big shoes to fill. After an extensive search for his replacement, we were fortunate to find Michael Kane. Mike came onboard in late January, bringing his experience in university building management from MIT and a background in construction project management which is proving to be invaluable in Boyer Hall at this time (see his first managers’ report below!). Mike's attention to detail, enthusiasm to learn about Boyer Hall and his easy-going personality have all been greatly appreciated by our admin team and the Faculty. We also appreciated Oren Saig, our Facilities Coordinator who stepped in as Building Manager until Mike was hired. Oren covered for Shawn with the same level of focus and dedication he brings to his own role, making sure there was minimal impact to the researchers of Boyer. As a result we were happy to recommend him for a promotion to Assistant Building Manager, a request which was approved recently. Oren and Mike have developed a great working relationship and the occupants of Boyer are fortunate to have both of these dedicated guys in the Building Management office.

I would be remiss at this point to not mention Luz Torres, who has kept our finances on an even keel throughout the year. Luz successfully manages internal and external funds for the MBI, MBIDP, QCBio and Bioinformatics, which represents hundreds of payments, reimbursements, transfers and overall budgeting oversight. Luz also plays a leading role in training junior administrators in financial transactions and answering their questions as they become familiar with the UCLA systems. This has been a very busy year for Luz and we appreciate her calm leadership and oversight of all of our operations. Luz will be in even higher demand next year, as the MBI office moves into inter-departmental grants submissions. We believe this is a much-needed service to our members and one we are uniquely placed to provide. More on this in next year's report!
Finally, a note about QCBio, which continues to grow and evolve. BIG summer, the undergraduate program to introduce young students to bioinformatics welcomed around 40 participants this year, from across the country.

QCBio Program manager Jessica Jimenez has taken the lead in this innovative program and, due to a family move, she’s now handing over the reins to Lana Martin. Lana joined us at the end of July and will take over both BIG Summer and the QCBio collaboratory postdoctoral teaching program. QCBio administrator Marie Grossett spent a large part of her year planning and running the International Systems Biology of Human Diseases Conference, which was hosted at UCLA this year. Marie arranged all the conference logistics, meals, accommodation and guest speakers. The conference was a big success and Marie’s warm, hospitable approach was commented on by many of the guests.

As you can see, we had a very full year with lots of changes! We’ll look forward to seeing what the new academic year brings our way.

BUILDING MANAGEMENT
Michael Kane, Boyer Hall Building Manager

Projects
We had two projects commence during the 2017-2018 academic year in Boyer Hall. (1) Lab Renovation in Boyer 332 for Dr. Allard (ISG Dept), which was completed in June, and (2) Conference Room Renovation in Boyer 159, which will be completed by Fall Quarter 2018. The following projects are in the design development phases, and will likely be completed in the 2018-2019 academic year:

- **Elevator Upgrades** – Both Boyer Hall elevators will have their mechanical systems replaced and both cabs will receive interior refreshes. It looks like our elevator upgrade will commence in the Fall Quarter of 2018. Stay tuned...
- **Boyer Hall Patio Refresh** – We will be sprucing up the patio now the conference room provides more access and visibility. Improvements will include new furniture and landscaping features.
- **QC Bio Wall Relocation** – We are in the design phase for this wall relocation project. This minor renovation will help open up the corridor on the 5th floor and create more of a collaborative space for the 5th floor labs.

New Faculty
We are excited to welcome Dr. Patrick Allard from The Institute for Society and Genetics. Dr. Allard just completed his move from CHS to Boyer Hall in June of 2018. Dr. Allard and his lab group now reside in Boyer Hall Room 332 where they research environmental impacts on gene expression and their relevance to health.

Building Personnel Changes
I was hired on as Building Manager late January of 2018. It has been great getting to know everyone in the building, and I look forward to serving the Boyer Hall residents. I would also like to congratulate Oren Saig on his well-deserved promotion to Assistant Building Manager. Oren has been an exemplary employee from the time I’ve known him and we’re excited to see him grow into his new role.

Building Services
The refrigeration unit to cold room 324 was replaced, this was a $20,000 maintenance project. We are currently looking to add a – 20 to our freezer backup program located in the basement of Boyer Hall.

Building Maintenance
We are currently working with Associate Vice Chancellor, Kelly Schmader, to modernize the general use areas in Boyer Hall. We are hoping to make aesthetic improvements to general building areas (corridors, small conference rooms, and restrooms). We are also seeking deferred maintenance funds from the state to upgrade DI water and
building lab waste lines. In addition to these deferred maintenance projects, we are working to set up a preventative maintenance program for the general/shared areas of Boyer Hall. This would include activities such as regularly scheduled stripping and waxing of the corridor floors and touch up painting throughout the shared spaces of Boyer Hall.
PROGRAMS

AND

EVENTS
David S. Sigman
Professor, Biological Chemistry and Chemistry & Biochemistry

The Sigman Lectureship Award was established in 2002 to honor the memory of David Sigman, Professor in the Departments of Biological Chemistry and Chemistry & Biochemistry, and a founding member and former Associate Director of the MBI. He was a leader in the field of chemical biology at UCLA and discovered chemical nucleases in a career that illuminated the molecular mechanisms of catalysis. A permanently endowed fund was made possible by contributions from over 200 of Professor Sigman’s colleagues, friends, and family, as well as corporate donors including the Amgen Foundation, Eli Lilly and Company, the Bristol-Myers Squibb Foundation, and Raytheon Systems Company.

2017 Sigman Lectureship Honoree

Yigong Shi, Ph.D.
Vice President, Tsinghua University
Dean, School of Life Sciences, Tsinghua University
Co-Director, Tsinghua-Peking Joint Center for Life Sciences, Beijing

Keynote Presentation
“Mechanism of pre-mRNA Splicing by the Spliceosome”

Abstract
Precursor messenger RNA (pre-mRNA) splicing, discovered 40 years ago, is an essential step in the information flow from DNA to protein in all eukaryotes. Research efforts of the past four decades have led to molecular delineation of the splicing pathway, including discovery of the nature and specifics of the splicing reaction, definition of the spliceosome and identification of its components, and biochemical analysis of the various splicing complexes and their regulation. Structural information is central to mechanistic understanding of pre-mRNA splicing by the spliceosome. X-ray crystallography of the spliceosomal components and subcomplexes is complemented by electron microscopy (EM) of the intact spliceosome. In the past two years, a burst of atomic structures on the intact spliceosome at different stages of the splicing cycle has revealed unprecedented mechanistic insights into pre-mRNA splicing, corroborating and explaining a large body of genetic and biochemical data. The spliceosome is proven to be a protein-directed metalloribozyme. In this presentation, I will summarize mechanistic revelations from recent structural advances on the yeast and human spliceosomes.

At a lunchtime event, the following trainees presented their research to Dr. Shi:

<table>
<thead>
<tr>
<th>Presenter</th>
<th>PI/Mentor</th>
<th>Title of Presentation</th>
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<tbody>
<tr>
<td>Mimi Ho</td>
<td>Pascal Egea/Jasmine Zhou</td>
<td>“Interactions and epitope mapping in Human Cytomegalovirus gH/gL Pentamer complex”</td>
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<tr>
<td>Duyoung Min</td>
<td>Jim Bowie</td>
<td>“How CLC chloride transporter folds”</td>
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<tr>
<td>Yuxi Liu</td>
<td>Todd Yeates</td>
<td>“A Symmetric Molecular Scaffold for Protein Imaging by Cryo-Electron Microscopy”</td>
</tr>
<tr>
<td>Yi Ying</td>
<td>Doug Black</td>
<td>“Splicing activation by an Rbfox protein requires self-aggregation through its tyrosine-rich domain”</td>
</tr>
<tr>
<td>Kevin Murray</td>
<td>David Eisenberg</td>
<td>“Computational Design of Amyloid Fibril Inhibitors”</td>
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Dr. Audree V. Fowler has been a dedicated Bruin for more than 60 years. A strong supporter of the basic sciences, the performing arts, and medicine at UCLA, she recently demonstrated her devotion to the College of Letters and Science again by establishing the Audree V. Fowler Graduate Fellowship in Protein Science, to be administered by the Molecular Biology Institute. Since 2008, 30 talented graduate students have received these fellowships.

Audree received her B.S. in chemistry from UCLA in 1956 and went on to earn a Ph.D. in biochemistry in 1963, when that field was almost exclusively male. She served as a NIH postdoctoral fellow at the Albert Einstein College of Medicine in New York and in UCLA’s Department of Biological Chemistry before becoming a research biological chemist in the David Geffen School of Medicine at UCLA. She built an eminent research career which includes over 80 publications. She also built strong connections with the Molecular Biology Institute, the Department of Biological Chemistry in the David Geffen School of Medicine, the UCLA Protein Microsequencing Facility—where she served as director for 15 years—and the Jonsson Comprehensive Cancer Center. She is one of five founding members of the Association of Biomolecular Resource Facilities (ABRF), which is now an international organization of 1,100 members. She was named the first lifetime member of the organization in 2008.

Although she retired from UCLA in 1999, Fowler is determined to remain active. She is an avid Bruin, maintaining her emeriti membership in the Molecular Biology Institute and serving on the board of directors of Women & Philanthropy. She also is on the executive board of Design for Sharing and the Iris Cantor UCLA Women’s Health Center, and she volunteered at the Santa Monica Pier Aquarium—formerly the UCLA Ocean Discovery Center. She expanded her involvement by giving tours of the Palisades Park hosted by the Santa Monica conservancy and of the Marion Davies Beach House.

The Audree V. Fowler Graduate Fellowships in Protein Science serves as a fitting testament to Dr. Fowler’s commitment and dedication to her research and to UCLA. The fellowships are awarded to promising Ph.D. candidates working in protein science. The crucial resources provide by the award advance the education of the Fowler Fellows by enabling them to concentrate on their innovative research.

“The sciences gave me a great life and now I want to help others to have the same opportunities I enjoyed.”

2017-18 Recipients

- **Michael Hughes** (Eisenberg Lab) “Structural insights into low-complexity domains & non-membrane bound organelles”
- **Kanishk Jain** (Clarke Lab) “Understanding protein arginine methyltransferases and their biochemical mechanisms”
- **William Barshop** (Wohlschlegel Lab) “MilkyWay: A Proteome Bioinformatics Platform, and its Application in Development of Proteolytic Digestion Resistant Affinity Purification Beads”
- **Yuxi Liu** (Yeates Lab) “Characterization of Natural and Engineered Symmetric Protein Oligomers”

More information about this year’s recipients and their research can be found [www.mbi.ucla.edu/fowler-fellows](http://www.mbi.ucla.edu/fowler-fellows).
Jules Brenner has worked in the cinematography division of the motion picture industry from the end of his military service in 1959 to the day of his retirement in 1996, starting as a camera assistant/loader at Warner Bros up to Director of Photography (1968-1991) with such film credits as Dalton Trumbo’s “Johnny Got His Gun,” John Milius’ “Dillinger,” two early episodes of the MacGyver TV series and the cult fave, “The Return of the Living Dead.” (His full credit list is available on IMDB). He is a voting member of the Academy of Motion Picture Arts & Sciences (AMPAS) and serves as a judge in their Nicholl Fellowship Screenwriting Competition.

Since retirement he has been active as a motion picture and book reviewer, accredited by the Motion Picture Association of America (MPAA) as a print and online freelance journalist. His reviews have been published in print publications such as Mystery Scene Magazine, and all around the web on such sites as filmcritic.com, Paste.com, About.com, and others in addition to his own sites, Cinema Signals and Critical Mystery Tour. His review blurbs appear on Rotten Tomato. He has lectured on Screenwriting for Columbia College of Chicago, Studio City campus. He writes code in HTML, Visual Basic and ASM and loves swimming, scuba diving, and weight training. His addictions are movies and reading and he has an intense interest, strictly as a layman, in the sciences.
Mr. Brenner believes that Molecular Biology is where the future lies and has provided a gift to recognize one outstanding student that has advanced the discipline. The awardee was selected by a committee of distinguished faculty and by Mr. Brenner, who also introduced the award in a video presentation at the Annual MBI Retreat, April, 2017.

2018 Recipient
• Aimee Flores (Lowry Lab)

BOYER/PARVIN POSTDOCTORAL RESEARCH AWARDS

MBI Founding Director Paul Boyer had a deep regard for postdoctoral researchers. He appreciated the dedication, intellect and skill they bring and the impact of their research on scientific progress. It was in this spirit that Dr Boyer donated a portion of his 1997 Nobel Prize to establish the Postdoctoral Awards. Additional support from his long-time colleague James Peter, from Phyllis Parvin on behalf of the Parvin Foundation and from Amgen Inc. created an opportunity to recognize over 100 exceptional researchers in Chemistry, Biochemistry and Molecular Biology, for the past 16 years.

The Parvin Foundation has been a tireless supporter of molecular biology research since the gift of $1 million made the Molecular Biology Building (now Paul D. Boyer Hall) possible. Foundation President Phyllis Parvin continues to be an avid supporter of the postdoctoral awards. Thanks to the Parvin Foundation, Amgen Inc and individual donors who believe in the value of postdoctoral research, we are able to continue the tradition of recognizing these exceptional scientists.

The recipients of these three awards were:

**Francis Mercer, Ph.D.**
Mentor: Prof. Patricia Johnson; Microbiology, Immunology & Molecular Genetics

**Marcus Seldin, Ph.D.**
Mentor: Prof. A. Jake Lusis; Cardiology

**Michael Hicks, Ph.D.**
Mentor: Prof. April Pyle; Microbiology, Immunology & Molecular Genetics

Thanks go to the members of the Selection Committee, Karen Reue, Jose Rodriguez, Oliver Fregoso and Hilary Coller, for their extensive efforts in selecting the winners.
This seminar series continues to be a focal point of MBI activities. The 2017-2018 schedule included national and internationally renowned speakers, invited and hosted by MBI Faculty and students from the MBIDP program.

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Institution(s)</th>
<th>Title</th>
<th>Host</th>
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<tbody>
<tr>
<td>10/5/2017</td>
<td>Liana Lareau, Ph.D.</td>
<td>California Institute for Quantitative Biology, University of California, Berkeley</td>
<td>&quot;Ribosome Dynamics Captured by Deep Sequencing and Deep Learning&quot;</td>
<td>MBIDP students (GREAT Home Area)</td>
</tr>
<tr>
<td>10/12/2017</td>
<td>Elcin Unal, Ph.D.</td>
<td>University of California, Berkeley</td>
<td>&quot;Meiotic Differentiation: Uncovering Unique Modes of Gene Regulation and Organelle Remodeling&quot;</td>
<td>Sri Kosuri</td>
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<tr>
<td>10/19/2017</td>
<td>Yigong Shi, Ph.D.</td>
<td>Tsinghua University, Beijing</td>
<td>&quot;Mechanism of pre-mRNA Splicing by the Spliceosome&quot;</td>
<td>Jim Bowie/Reid Johnson</td>
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<tr>
<td>11/2/2017</td>
<td>Peter Jackson, Ph.D.</td>
<td>Stanford University School of Medicine</td>
<td>&quot;Reformulating adipogenesis: Ciliary trafficking of a fatty acid GPCR activates cAMP-dependent differentiation of mesenchymal stem cells&quot;</td>
<td>Jorge Torres</td>
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<tr>
<td>11/9/2017</td>
<td>Leonard Zon, M.D.</td>
<td>Children's Hospital Boston, Harvard Medical School Howard Hughes Investigator</td>
<td>&quot;Pathways regulating hematopoietic stem cell self-renewal and migration&quot;</td>
<td>Carla Koehler</td>
</tr>
<tr>
<td>11/16/2017</td>
<td>Tamir Gonen, Ph.D.</td>
<td>Investigator, Howard Hughes Medical Institute Department of Biological Chemistry</td>
<td>&quot;MicroED opens a new era for biological structure determination&quot;</td>
<td>Doug Black</td>
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<tr>
<td>11/30/2017</td>
<td>Raymond Stevens, Ph.D.</td>
<td>University of Southern California</td>
<td>&quot;A new approach towards diabetes structure based drug discovery&quot;</td>
<td>Ron Kaback</td>
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<tr>
<td>12/7/2017</td>
<td>Christopher Lima, Ph.D.</td>
<td>Memorial Sloan Kettering Cancer Center</td>
<td>&quot;Nuclear quality control and the RNA exosome&quot;</td>
<td>Tracy Johnson &amp; Doug Black</td>
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<tr>
<td>1/11/2018</td>
<td>David Rawlings, M.D.</td>
<td>Seattle Children's Hospital University of Washington</td>
<td>&quot;Engineering human lymphoid cells for novel clinical applications&quot;</td>
<td>MBIDP students (IMMP Home Area)</td>
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<tr>
<td>1/18/2018</td>
<td>Karen Adelman, Ph.D.</td>
<td>Harvard Medical School</td>
<td>&quot;Transcription as a Central Hallmark of Active Enhancers&quot;</td>
<td>Tracy Johnson</td>
</tr>
<tr>
<td>1/25/2018</td>
<td>Vamsi Mootha, M.D.</td>
<td>Harvard Medical School</td>
<td>&quot;Genomics Approaches to Mitochondrial Bioenergetics&quot;</td>
<td>Steve Young &amp; Sabeeha Merchant</td>
</tr>
<tr>
<td>2/1/2018</td>
<td>Scott Keeney, Ph.D.</td>
<td>HHMI Memorial Sloan Kettering Cancer Center Howard Hughes Investigator</td>
<td>&quot;Breaking Par: Sex Chromosome Recombination in Male Meiosis&quot;</td>
<td>Tracy Johnson</td>
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<tr>
<td>Date</td>
<td>Presenter</td>
<td>Institution</td>
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<td>Speaker</td>
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<td>2/8/2018</td>
<td>Michel Goedert, M.D., Ph.D.</td>
<td>Medical Research Council, University of Cambridge</td>
<td>“Synucleinopathies and Tauopathies”</td>
<td>David Eisenberg</td>
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<tr>
<td>2/22/2018</td>
<td>William A. Petri Jr., M.D., Ph.D.</td>
<td>University of Virginia</td>
<td>&quot;Role of Human Genetics, environment and microbiome insusceptibility to amebic colitis&quot;</td>
<td>Patricia Johnson</td>
</tr>
<tr>
<td>3/1/2018</td>
<td>Emanuela Gussoni, Ph.D.</td>
<td>Harvard Medical School</td>
<td>&quot;Tetraspanin CD82 in Muscle Stem Cells and Muscular Dystrophy&quot;</td>
<td>MBIDP students (CDB Home Area)</td>
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<td>3/8/2018</td>
<td>Olga Boudker, Ph.D.</td>
<td>Cornell University</td>
<td>&quot;Glutamate Transporter Dynamics: How Fast Can It Go?&quot;</td>
<td>Jim Bowie</td>
</tr>
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<td>3/15/2018</td>
<td>Steven Boxer, Ph.D.</td>
<td>Stanford University</td>
<td>&quot;Reactions, Interactions, Dynamics and Mass Spec Imagine in Model Biological Membranes: Viruses and Rafts&quot;</td>
<td>Steve Young</td>
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<tr>
<td>4/12/2018</td>
<td>Sophie Dumont, Ph.D.</td>
<td>University of California, San Francisco</td>
<td>&quot;Cell Division: Mechanical Integrity with Dynamic Parts&quot;</td>
<td>Margot Quinlan</td>
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<tr>
<td>4/19/2018</td>
<td>Hana El Samad, Ph.D.</td>
<td>University of California, San Francisco School of Medicine</td>
<td>&quot;Cellular Feedback Control - What Do All the Loops Do?&quot;</td>
<td>Margot Quinlan (MBI) &amp; Van Savage (QCB)</td>
</tr>
<tr>
<td>4/26/2018</td>
<td>Roy Parker, Ph.D.</td>
<td>University of Colorado, Boulder</td>
<td>&quot;RNP Granules in Health and Disease&quot;</td>
<td>Ming Guo</td>
</tr>
<tr>
<td>5/3/2018</td>
<td>Gregory Alushin, Ph.D.</td>
<td>The Rockefeller University</td>
<td>&quot;Cytoskeletal structural plasticity in force generation and mechanosensation&quot;</td>
<td>Hilary Coller</td>
</tr>
<tr>
<td>5/10/2018</td>
<td>Photini Sinnis, M.D.</td>
<td>Johns Hopkins Bloomberg School of Public Health</td>
<td>&quot;Establishment of Malaria Infection: Parasite Bottleneck &amp; Point for Intervention&quot;</td>
<td>Peter Bradley</td>
</tr>
<tr>
<td>5/17/2018</td>
<td>Tim Stearns, Ph.D.</td>
<td>Stanford University</td>
<td>&quot;Centrosomes and Cilia: From Single Molecules to New Model Organisms&quot;</td>
<td>Margot Quinlan</td>
</tr>
<tr>
<td>5/24/2018</td>
<td>Jay Keasling, Ph.D.</td>
<td>University of California, Berkeley</td>
<td>&quot;Engineering Microorganisms for Production of Isoprenoid Natural Products and Some Not-So-Natural Products&quot;</td>
<td>MBIDP students (BBSB Home Area)</td>
</tr>
<tr>
<td>5/29/2018</td>
<td>Angelique Bordey, Ph.D.</td>
<td>Yale School of Medicine</td>
<td>&quot;Understanding How MTOR Hyperactivity Leads to Epilepsy and Behavioral Deficits&quot;</td>
<td>Ye Zhang (MBI) &amp; Chris Evans (BRI)</td>
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</tbody>
</table>
These informal presentations contribute to our scientific progress and enable our membership to keep up-to-date on current research developments by the MBI faculty.

<table>
<thead>
<tr>
<th>Date</th>
<th>MBI Faculty Member</th>
<th>Department</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>10/3/2017</td>
<td>Luisa Iruela-Arispe, Ph.D.</td>
<td>MCDB</td>
<td>&quot;State of the MBI 2017: A growing membership, new staff, facility renovations and more...&quot;</td>
</tr>
<tr>
<td>10/10/17</td>
<td>Patrick Allard, Ph.D.</td>
<td>Institute for Society and Genetics</td>
<td>&quot;Mechanisms of transgenerational inheritance of environmental exposures in C. elegans&quot;</td>
</tr>
<tr>
<td>10/17/17</td>
<td>Manish Butte, Ph.D.</td>
<td>Ped Allergy/Immunology</td>
<td>&quot;Pulling out the Stops in T-cells&quot;</td>
</tr>
<tr>
<td>10/24/2017</td>
<td>Don Puppione, Ph.D.</td>
<td>Emeritus Professor</td>
<td>&quot;Combining proteomics with genomics to look at the evolution of mammalian apoC-I&quot;</td>
</tr>
<tr>
<td>10/31/2017</td>
<td>Gerald Lipshutz, M.D., D.D.S.</td>
<td>Surgery, Endocrinology, Diabetes and Hypertension, Molecular &amp; Medical Pharmacology</td>
<td>&quot;Trials and Tribulations with Arginase: Progress in Gene and Cell Therapy for its Deficiency and Defining its Possible Cell Autonomous Role in Neuronal Development&quot;</td>
</tr>
<tr>
<td>11/7/2017</td>
<td>Alice Soragni, Ph.D.</td>
<td>Hematology-Oncology</td>
<td>&quot;Protein aggregation in cancer: p53 and beyond&quot;</td>
</tr>
<tr>
<td>11/14/2017</td>
<td>Matteo Pellegrini, Ph.D.</td>
<td>MCDB</td>
<td>&quot;What can DNA methylation tell us about metabolic syndrome?&quot;</td>
</tr>
<tr>
<td>11/28/2017</td>
<td>Jose Rodriguez, Ph.D.</td>
<td>Chemistry &amp; Biochemistry</td>
<td>&quot;Structures of Mammalian Prion&quot;</td>
</tr>
<tr>
<td>12/05/2017</td>
<td>Brigette Gomperts, M.D.</td>
<td>Pediatrics, Hem/Onc</td>
<td>&quot;Maintaining Mucociliary Clearance - the Critical Role of Airway Basal Stem Cells&quot;</td>
</tr>
<tr>
<td>1/9/2018</td>
<td>Grace Aldrovandi, M.D.</td>
<td>Pediatrics-Infectious Diseases</td>
<td>&quot;Moms, Milk and Microbes: How to Build Healthy Babies&quot;</td>
</tr>
<tr>
<td>1/30/2018</td>
<td>Hong Zhou, Ph.D.</td>
<td>MIMG</td>
<td>&quot;Structural studies of Human Herpes Viruses&quot;</td>
</tr>
<tr>
<td>2/6/2018</td>
<td>Margot Quinlan, Ph.D.</td>
<td>Chemistry &amp; Biochemistry</td>
<td>&quot;Cytoskeletal Control of Cell Polarity in the Drosophila Oocyte and Other Actin News&quot;</td>
</tr>
<tr>
<td>2/13/2018</td>
<td>Amander Clark, Ph.D.</td>
<td>MCDB</td>
<td>&quot;Molecular Regulation of Human Germ Cell Formation&quot;</td>
</tr>
<tr>
<td>2/20/2018</td>
<td>Feng Guo, Ph.D.</td>
<td>Biological Chemistry</td>
<td>&quot;RNA Structures and microRNA Biogenesis&quot;</td>
</tr>
<tr>
<td>2/27/2018</td>
<td>Lily Wu, M.D., Ph.D.</td>
<td>Molecular &amp; Med Pharmacology</td>
<td>&quot;Tumor heterogeneity and metastatic progression in renal cell carcinoma&quot;</td>
</tr>
<tr>
<td>3/6/2018</td>
<td>Todd Yeates, Ph.D.</td>
<td>Chemistry &amp; Biochemistry</td>
<td>&quot;Giant Protein Assemblies in Nature and By Design&quot;</td>
</tr>
<tr>
<td>3/13/2018</td>
<td>Yousang Gwack, Ph.D.</td>
<td>Physiology</td>
<td>&quot;Calcium Signaling Components in Innate Immunity&quot;</td>
</tr>
<tr>
<td>3/20/2018</td>
<td>Louis Bouchard, Ph.D.</td>
<td>Chemistry &amp; Biochemistry</td>
<td>&quot;Technology Development for Precise Modulation of T-Cells Fate, Tissue Engineering, Mechanosensing and Other Stories&quot;</td>
</tr>
<tr>
<td>4/3/2018</td>
<td>Elissa Hallem, Ph.D.</td>
<td>MIMG</td>
<td>&quot;Host-Seeking Behaviors of Parasitic Nematodes&quot;</td>
</tr>
<tr>
<td>4/10/2018</td>
<td>Sri Kosuri, Ph.D.</td>
<td>Chemistry &amp; Biochemistry</td>
<td>&quot;Synthetic Approaches for Understanding Biology&quot;</td>
</tr>
<tr>
<td>4/17/2018</td>
<td>Luisa Iruela-Arispe, Ph.D.</td>
<td>MCDB</td>
<td>&quot;MBIDP Update-Report to the Faculty&quot;</td>
</tr>
<tr>
<td>4/24/2018</td>
<td>Ren Sun, Ph.D.</td>
<td>Molecular &amp; Med Pharmacology</td>
<td>&quot;Rational Vaccine Design Enabled by High Resolution Genetic Maps of Viral Genomes&quot;</td>
</tr>
<tr>
<td>5/1/2018</td>
<td>Joseph Loo, Ph.D.</td>
<td>Chemistry &amp; Biochemistry</td>
<td>&quot;Pushing (and Imaging) the Boundaries of Protein Mass Spectrometry Beyond Sequencing to Structural Biology&quot;</td>
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</table>
The MBI Retreat is organized each year by student representatives from the Molecular Biology Interdepartmental Ph.D. Program, the Cellular & Molecular Biology Training Program and the Cell-Biology Interface Training Program. The program offers the opportunity for the MBI community; students, postdocs and faculty, to gather together to celebrate the diversity of intellectual pursuits that comprise modern molecular biology at UCLA.

The 40th MBI Annual retreat was held on March 17 - 18, 2017 the Crowne Plaza Ventura Beach. 169 people attended the retreat, including 146 graduate students and 23 faculty members. 44 students presented posters and 10 students gave oral presentations. One of the highlights of this year's retreat was the presentation by our Keynote Speaker, Dr. Michael Snyder from Stanford University.

Another highlight of the retreat was the Career Panel, where professionals from academia and industry outlined their career paths and gave professional development advice to the students.

The panelists this year were:
- Edwin Saada (Sandia National Laboratories)
- Jennifer Lovick (SAGE Publishing)
- David Leibly (ADRx)
Emily Lowe (Kite Pharma/Gilead)

The retreat program also included time to relax and enjoy the beautiful location. The Home Area “House Cup” was extremely popular, which included a game of tug-o-war on the beach, with Gene Reg and IMMP tying to end the events.

We were grateful for the financial support of several UCLA Departments: Biological Chemistry; Chemistry and Biochemistry; MCDB; MIMG; Pathology and Laboratory Medicine, and the David Geffen School of Medicine, Broad Stem Cell Research Institute, and Jonsson Comprehensive Cancer Center, who made this retreat possible.

Also, a very special THANK YOU to our benefactors Dr. Audree Fowler, Dr. Garry Miyada and Jules Brenner, for believing that investing in graduate education is the path to a better future for all.

**RETREAT SCHEDULE**

### Saturday, March 17, 2018

**Keynote Address**

**Introduction**

1:30 – 2:30PM

Guillaume Urtecho

**Session I**

Chair: Manish Butte, M.D., Ph.D.

2:30 – 2:50PM

Aanand Patel (Quinlan Lab)

2:50 – 3:10PM

Adewunmi Adeleja (Hoffmann Lab)

3:10 – 3:40PM

Donald Kohn, M.D.

**Career Panel**

Moderator: Jessica Ochoa

4 – 5PM

Q&A with Panelists:

Emily Lowe (Kite Pharma/Gilead)

Edwin Saada (Sandia National Laboratories)

David Leibly (ADRx)

Jennifer Lovick (SAGE Publishing)

5:30 – 7PM

7 – 8:30PM

8:30 – 11PM

**Sunday, March 18, 2018**

**Session II**

Chair: Andrew Goldstein, Ph.D.

9:30 – 9:50AM

Guillaume Urtecho (Kosuri Lab)

9:50 – 10:10AM

Thang Nguyen (Teitell Lab)

10:10 – 10:40AM

Siavash Kurdistani, Ph.D.

**Session III**

Chair: Oliver Fregoso, Ph.D.

10:50 – 11:10AM

Jaspree Sandhu (Tontonoz Lab)

11:10 – 11:40AM

Stephanie Demarco (Hill Lab)
### Graduate Student Awards
1:30PM

Poster Award Presentations

### Fowler Fellowship Award Presentations

**Introduction**

1:40 – 2PM

Michael Hughes (Eisenberg Lab)

2 – 2:20PM

Kanishk Jain (S. Clarke Lab)

2:20 – 2:40PM

William Barshop (Wohlschlegel Lab)

2:40 – 3:00PM

Yuxi Liu (Yeates Lab)

3 – 3:30PM

Kathrin Plath, Ph.D.

**Closing Remarks**

Director Luisa Iruela-Arispe, Ph.D.

### MB-IDP House Cup
3:40 – 4:45PM

Water Balloon Toss, Tug of War, Flag Tag, Cornhole

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**BIOTECHNOLOGY EDGE WORKSHOP**

**MBI & Amgen Inc.**

March 26th-30th, 2018 the MBI collaborated with researchers at Amgen to hold the 3rd Annual “Biotechnology Edge” Workshop. The workshop provided an opportunity to learn firsthand about the biotechnology industry,

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Day</th>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>1.1</td>
<td>Monday March 26</td>
<td>9:30am to 11:00am</td>
<td>Introduction to Biotechnology</td>
<td>Jim Johnston (MBI)</td>
</tr>
<tr>
<td>1.2</td>
<td>Monday March 26</td>
<td>11:15am to 12:30pm</td>
<td>Case Study – Metabolic – Bone Biology</td>
<td>Chris Pauzly (Amgen)</td>
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<td>Genomics/Genetics, Bone Biology, and Osteoporosis Therapies</td>
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<tr>
<td>2.1</td>
<td>Tuesday March 27</td>
<td>9:30am to 11:00am</td>
<td>Large Molecule Lead Generation</td>
<td>Kevin Graham (Amgen)</td>
</tr>
<tr>
<td>2.2</td>
<td>Tuesday March 27</td>
<td>11:15am to 12:30pm</td>
<td>Small Molecule Lead Generation and Lead Optimization</td>
<td>Ana Minatti (Amgen)</td>
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<td>The Role of Medicinal Chemistry in Drug Discovery</td>
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<tr>
<td>3.1</td>
<td>Wednesday March 28</td>
<td>9:30am to 11:00am</td>
<td>Comparative Biology and Safety Sciences: Large and Small Molecule Drug Discovery &amp; Development</td>
<td>Graeme Moffat (Amgen)</td>
</tr>
<tr>
<td>3.2</td>
<td>Wednesday March 28</td>
<td>11:15am to 12:30pm</td>
<td>Pharmacokinetics in Drug Discovery &amp; Development</td>
<td>Winnie Sohn (Amgen)</td>
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<td>PK: What does a Body do to a Drug?</td>
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<tr>
<td>4.1</td>
<td>Thursday March 29</td>
<td>9:30am to 11:00am</td>
<td>Case Study – Oncology – BITE Therapeutics</td>
<td>Paul Hughes (Amgen)</td>
</tr>
<tr>
<td>4.2</td>
<td>Thursday March 29</td>
<td>11:15am to 12:30pm</td>
<td>Process Development</td>
<td>Linda Narhi (Amgen) &amp; Maria Silva Elize (Amgen)</td>
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**ATO Campus Visit**

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<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>Friday</td>
<td>9:00am to 9:15am</td>
<td>Welcome – Visit Overview</td>
<td>Jim Johnston/Linda Narhi</td>
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<tr>
<th>Day</th>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
</tr>
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<tbody>
<tr>
<td>Friday</td>
<td>9:30am to 1:00pm</td>
<td>ATO Campus Visit &amp; Lab Tours</td>
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</table>
including all aspects of the drug discovery process and the ways in which trainees can prepare for a career in the private sector. During the first four days, senior Amgen scientists came to UCLA to give presentations on various aspects of drug design and testing. They also spoke to the audience about preparing for careers in biotechnology. On the last day of the workshop the trainees traveled to Thousand Oaks to tour Amgen labs to interact with directly group leaders and junior researchers and see first-hand how the latest technologies are being used to move potential therapeutics through the pipeline. The entire workshop was extremely popular and only 30 trainees could be accommodated due to space limitations on the Amgen tour.

**FOCUS IN IMAGING WORKSHOP**

MBI, CNSI, Carl Zeiss Microscopy & Bitplane

Held August 1st through 4th, the “Focus on Imagining” workshop, provided essential hands-on training in the basic principles of microscopy, confocal, electron microscopy and Imaris 3D/4D visualization and analysis. This was the third workshop organized in collaboration with partners at Zeiss and Bitplane, who provide equipment and expert training personnel. Each session was 2 hours long and was offered on multiple days and times to accommodate as many as possible. Bitplane Specialist Lynsey Hamilton, Ph.D, gave an introductory seminar for the IMARIS Training on the final day. 55 trainees and faculty attended.

**TRAINING SESSION SCHEDULE**

**Tuesday – August 1st**
- Principles of Microscopy 1pm and 3:30pm
- Confocal Microscopy 1pm and 3:30pm
- Electron Microscopy 1pm and 3:30pm

**Wednesday – August 2nd**
- Principles of Microscopy 9:30am, 1pm and 3:30pm
- Confocal Microscopy 9:30am, 1pm and 3:30pm
- Electron Microscopy 9:30am, 1pm and 3:30pm

**Thursday – August 3rd**
- Principles of Microscopy 9:30am, 1pm and 3:30pm
- Confocal Microscopy 9:30am, 1pm and 3:30pm
- Electron Microscopy 9:30am, 1pm and 3:30pm

**Friday – August 4th**
- **Boyer Hall 130**
  - Introductory Seminar 10am
    - “Explore your 3D data with Imaris” Lynsey Hamilton, Ph.D. Bitplane Specialist

**IMARIS Training Sessions**

**Introductory Sessions**
- Friday August 4th 1pm – 2pm: Imaris 3D rendering & animations
- Friday August 4th 2pm – 3pm: Imaris Automated object detection, counting and volumetric statistics

**Advanced Sessions**
- Friday August 4th 3.30pm – 4.30pm: Imaris Colocalization analysis techniques
- Friday August 4th 4.30pm – 5.30pm: Imaris Neuron Tracing, Q&A
MOUSE GENOME INFORMATICS WORKSHOP

After a short hiatus, the MBI reconvened its popular mouse genetics and genome informatics workshop. The 2 hour workshop was held on Tuesday March 20, 2018 and lead by Dr. Meiyee Law, Outreach Coordinator at Jackson Labs. Dr. Law began by covering basic concepts of mouse genetics, data structures, page navigation in the MGI database (www.informatics.jax.org) and batch data mining/analysis. In the second half of the workshop, she lead participants through practical examples to demonstrate how the MGI database could be used to answer biological questions. Attendees also received one-on-one assistance with analyzing their own data. The workshop was extremely popular and registration reached the room capacity of 60, with a waiting list for open spots. Given the interest in this area, and with the support of Jackson Labs we hope to offer this workshop annually.
FACULTY RESEARCH AND PROFESSIONAL ACTIVITIES
NEW MBI MEMBERS

Justine C. Lee, MD, Ph.D., FACS
Associate Professor, Plastic and Reconstructive Surgery
www.uclahealth.org/JustineLee

Dr. Lee is a craniofacial surgeon-scientist. Her research program includes a basic science and clinical component focused on craniofacial reconstruction and investigating practical solutions for defects of the craniofacial skeleton. Her basic work is focused on understanding and developing materials-based calvarial bone regeneration strategies for rapid translation. Her clinical work is focused on outcomes of craniofacial surgery with a particular emphasis on pediatric congenital anomalies. She is funded by the Jean Perkins Foundation, the Bernard G. Sarnat Endowment, the Plastic Surgery Foundation, and the US Department of Veterans Affairs. Dr. Lee graduated summa cum laude from UCLA with a Bachelors of Science in Molecular, Cell, and Developmental Biology. Subsequently, she received her MD and PhD from the University of Chicago. She completed her plastic and reconstructive surgery residency at the University of Chicago and returned to UCLA for her craniofacial surgery fellowship. She is the Bernard G. Sarnat Endowed Chair for Craniofacial Biology. In addition to her work at UCLA, she is highly active in both national and international reconstructive surgery organizations. She serves as Associate Editor for Annals of Plastic Surgery, Section Editor in Craniofacial Surgery for the Cleft Palate-Craniofacial Journal, and Section Editor in Plastic and Reconstructive Surgery for the Cleft Palate-Craniofacial Journal.

Melody Li, Ph.D.
Assistant Professor, Microbiology, Immunology and Molecular Genetics
www.melodylilab.org

Dr. Li is a molecular virologist and her laboratory studies host defense strategies that control infections with arthropod-borne viruses (arboviruses), which have caused devastating outbreaks in recent years. Viral infection stimulates the production of interferon, resulting in the expression of a large and diverse repertoire of interferon-stimulated genes. However, most of these genes have not been characterized. In graduate school, Dr. Li elucidated the functional consequences of human polymorphisms in the APOBEC3H gene. Her work was among the first studies to establish an anti-HIV-1 role for human APOBEC3H in vivo. Her postdoctoral work on two interferon-induced proteins, ZAP and IRF2, advances our understanding of host mechanisms that inhibit viral translation and promote clearance in the central nervous system. Her laboratory is currently investigating the mechanism and regulation of broad-spectrum antiviral factors with the hope that they will inform development of novel therapeutics against re-emerging arboviruses. Dr. Li received her PhD in Microbiology from University of Washington, Seattle in 2011. She subsequently completed her postdoctoral work at Rockefeller University in 2017 and started her own group at UCLA in the fall of 2017.

Theodoros Kelesidis, M.D., Ph.D., M.Sc.
Assistant Professor, Medicine – Infectious Diseases
https://www.uclahealth.org/theodoros-kelesidis

Dr. Kelesidis is a translational physician-scientist focusing on immunopathogenesis of infectious diseases. His laboratory uses a variety of in vitro and in vivo models to investigate novel mechanisms of HIV-related inflammation and immune dysfunction and how they drive end organ disease such as atherosclerosis. In addition to HIV, Dr. Kelesidis’ research interests include infections in immunocompromised patients and antimicrobial resistance. Dr. Kelesidis received his MD from University in Athens, Greece and his PhD from University of California Los Angeles where he also did his fellowship in infectious diseases. He has also received an M.Sc in translational research from UCLA. He is
Currently an Assistant Professor of Medicine at the Department of Medicine, Division of Infectious Diseases at UCLA.

Siobhan A Braybrook, Ph.D.
Assistant Professor, Molecular, Cell, and Developmental Biology
https://www.mcdb.ucla.edu/faculty/siobhanb

Dr. Braybrook is a developmental biologist who specializes in the mechanical properties of cells and tissues as they relate to growth. She collaborates with mathematicians, computer modellers, and engineers in order to address the physical biology of growth. Her major study systems are plants and brown algae, with recent forays into immunology and cancer. The lab currently focuses on mechanisms of pH-induced growth mechanics, anisotropic cell elongation, the biomechanics of biological gels, and morphometric analysis of cell shapes. Dr. Braybrook received her Ph.D. from UC Davis. She completed a research fellowship at the University of Bern (CH) before starting a research group at The University of Cambridge (UK). In 2017, the lab moved to UCLA.

Tamir Gonen, Ph.D.
Professor, Biological Chemistry
https://cryoem.ucla.edu/

Dr. Gonen is an expert in electron crystallography and cryo EM. He determined the 1.9Å resolution structure of the water channel aquaporin-0 by electron crystallography, the highest resolution for any protein determined by cryo EM techniques at the time. Dr Gonen established his own laboratory at the University of Washington in 2005 together with the very first cryo EM laboratory in the Pacific Northwest, a resource that continues to benefit many researchers at the UW School of Medicine and beyond. More recently Dr Gonen was honored with a Career Development award from the American Diabetes Association, became a Member of the Royal Society of New Zealand, as well as being chosen one of only 50 Howard Hughes Medical Institute Early Career Scientists around the country. In 2011 Dr Gonen accepted a position as a Group Leader at the HHMI Janelia Research Campus where he began developing MicroED as a new method for structural biology. With this method Dr Gonen has pushed the boundaries of cryoEM and determined several previously unknown structures at resolutions close to 1Å. In 2017 Dr Gonen moved his laboratory to the David Geffen School of Medicine of the University of California, Los Angeles as an Investigator of the Howard Hughes Medical Institute and a Professor of Biological Chemistry and Physiology, where he continues studying membrane protein structure and function using cryoEM and MicroED. Dr Gonen authored more than 100 publications and several of his past trainees are now faculty around the world at top universities.

Tim O'Sullivan, Ph.D.
Assistant Professor, Microbiology, Immunology, and Molecular Genetics
http://www.mbi.ucla.edu/faculty/tim‐osullivan/

Dr. O’Sullivan is an Assistant Professor of Microbiology, Immunology, and Molecular Genetics. He received his Bachelors of Science Degree (B.S.) from Cornell University and his Doctor of Philosophy Degree (Ph.D.) in Biomedical Science from the University of California San Diego. Dr. O’Sullivan’s thesis work focused on the interactions between the innate immune system and cancer. Dr. O'Sullivan subsequently completed his American Cancer Society postdoctoral fellowship at Memorial Sloan Kettering Cancer Center where he studied the role of circulating and tissue‐resident innate lymphoid cells (ILC) during viral infection and diet‐induced obesity. Dr. O’Sullivan established his own laboratory at UCLA in 2017. The O'Sullivan lab is dedicated to understanding the molecular mechanisms responsible for protective or pathologic immune responses during cancer, viral infection, and obesity.
Tamer Sallam, MD Ph.D.
Assistant Professor, Medicine
Dr. Sallam is a cardiovascular physician-scientist investigating the relationship between genetic diversity and common cardiovascular problems such as dyslipidemia, obesity and heart disease. Dr. Sallam’s previous work has provided fundamental insights into mechanisms controlling cholesterol levels and physiologic roles of newly recognized genes known as long non-coding RNA in cardiovascular disease. Through multiple independent grants his lab is currently investigating the contributions of long noncoding RNAs in cardiovascular risk factors and disease. Dr. Sallam completed residency and chief residency training at Yale, followed by cardiology fellowship training at UCLA. Dr. Sallam graduated from the STAR program at UCLA earning a PhD in the Lab of Peter Tontonoz. Dr. Sallam has been awarded the Lauren B. Leichtman and Arthur E. Levine investigatorship at UCLA. He is the recipient of the American College of Cardiology Presidential Career Development Award, Burroughs Wellcome Fund Career Award for Medical Scientists, and American Society for Clinical Investigation Young Investigator Award. Dr. Sallam currently serves as co-director of the UCLA center for Cholesterol Management and Assistant Director of the UCLA Specialty Training and Advanced Research (STAR) Program.

Jesse Zamudio, Ph.D.
Assistant Professor, Molecular, Cell, and Developmental Biology
Jesse Zamudio received his bachelor’s degree from UCLA in Chemistry & Biochemistry. He received his Ph.D. from UCLA in the Department of Microbiology, Immunology and Molecular Genetics working in the laboratory of Dr. David Campbell and Dr. Nancy Sturm. For his thesis work, he characterized the first eukaryotic messenger RNA (mRNA) ribose cap methyltransferases. Although present in both the unique mRNA cap structure of human pathogenic Kinetoplastid protozoa and human mRNA, the proteins responsible for each had not been discovered. Based on evolutionary sequence conservation to known viral proteins, they were able to characterize a conserved eukaryotic protein family responsible for these modifications and determine their role in mRNA biogenesis and protein translation in kinetoplastids. These studies have aided the investigation of the human cap ribose methyltransferases implicated in early development. Jesse pursued his postdoctoral research in the laboratory of Dr. Phil Sharp at the MIT Cancer Center. His research focused on quantitative approaches to characterize Regulatory RNAs in embryonic and adult stem cells. He aimed to confidently assay regulation by the mammalian RNA interference (RNAi) pathway and in doing so discovered new classes of mammalian small RNAs and principles determining regulatory activity. Current research in the lab is focused on characterizing functional RNAs in the control of cell state transitions during development and cancer progression.

De-Chen Lin, Ph.D.
Assistant Professor, Cedars-Sinai Medical Center
Adjunct Assistant Professor, UCLA School of Medicine
Dr. Lin has a broad background in cancer genetics and biology, with specific training and expertise in functional genomic study as well as transcriptional regulation. The major focus of his work is identifying key genomic and epigenomic abnormalities in human malignancies and translating these findings into novel clinical managements. To facilitate this research, he has established and developed a variety of functional genomic approaches as well as computational algorithms. With these tools and comprehensive biological studies, Dr. Lin uncovered important genomic and epigenomic aberrations which promote malignant phenotypes.
## MBI Faculty Honors & Professional Awards

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<tbody>
<tr>
<td>Bannerjee, Utpal</td>
<td>Elected Member, National Academy of Sciences</td>
</tr>
<tr>
<td>Bitan, Gal</td>
<td>UCLA Inaugural Undergraduate Research Week Faculty Mentor Award</td>
</tr>
<tr>
<td>Bowie, James</td>
<td>Elected Fellow of the Biophysical Society, Academia Sinica Choh Hao Li Memorial Lecture</td>
</tr>
<tr>
<td>Clarke, Steven</td>
<td>William C. Rose Award of the American Society of Biochemistry and Molecular Biology</td>
</tr>
<tr>
<td>Coller, Hilary</td>
<td>Cancer Research Institute Clinical and Laboratory Integration Program Award Departmental Nominee for UCLA Distinguished Teacher Award Anna-Maria and Stephen Kellen Foundation-Melanoma Research Alliance Team Science Award UCLA Undergraduate Research Faculty Mentor Award</td>
</tr>
</tbody>
</table>
| De Robertis, Edward | 50th Anniversary Lecture of the Japanese Society of Developmental Biology  
90th Anniversary Lecture for Instituto Clemente Estable |
<p>| Eisenberg, David  | Paul Sigler Prize, Yale University                                                 |
| Ernst, Jason      | NIH/NIDA Avenir Award, Rose Hill Foundation Innovator Award                        |
| Goldstein, Andrew | American Cancer Society 2018 Giants of Science Hope Award                         |
| Gonen, Tamir      | HHMI Investigator                                                                  |
| Guo, Ming         | Glenn Foundation for Medical Research Award                                        |
| Hoffmann, Alexander | Keynote Speaker, International Conference on Intelligent Biology and Medicine      |
| Iruela-Arispe, Luisa | NIH/NHLBI Outstanding Investigator Award (R35)                                    |
| Johnson, Tracy    | Chair, Keith and Cecilia Terasaki Endowed; Life Sciences Award for Excellence in Promoting Diversity and Inclusion Through Service, Teaching, Mentoring and Research |
| Kohn, Donald      | Lifetime Achievement Award, the Pediatric Blood &amp; Marrow Transplant Consortium     |
| Kurdistani, Siavash | W.M. Keck Foundation Award                                                        |
| Lipshutz, Gerald  | Endowed Chair                                                                      |
| Novitch, Bennett  | Ethel Scheibel Chair in Neuroscience; Ablon Scholars Award (JCCC/BSCRC)           |
| Pyle, April       | Ablon Award                                                                        |
| Quinlan, Margot    | Undergraduate Research Week Faculty Mentor Award                                   |
| Reue, Karen       | American Heart Association Russell Ross Memorial Lecture                           |
| Rodriguez, Jose   | Pew Biomedical Scholar                                                             |
| Sallam, Tamer     | Burroughs Wellcome Fund Career Award for Medical Scientists                       |
| Soragni, Alice    | Fellow of American College of Cardiology                                           |
| Spencer, Melissa  | Golden Test Tube Award, UCLA Dept. of Neurology                                   |
| Tarling, Elizabeth | Irvine H. Page Young Investigator Research Award                                  |
| Teitell, Michael  | Promoted to Associate Professor in Residence                                       |
| Torres, Jorge     | 2019 Ruth Kirschstein Diversity in Science Award                                  |
|                   | American Society for Biochemistry and Molecular Biology                           |</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>成就及服务</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yeaman, Michael</td>
<td>Spirit of Innovation Award (LA BioMed); Global Technology Community (CNS Diseases); Distinguished Primary Investigator (U.S. Department of Defense); Chair, Summit on Immune Tolerization; Vatican Council on Medicine &amp; Society</td>
</tr>
</tbody>
</table>

### MBI Faculty Service on UCLA Committees

<table>
<thead>
<tr>
<th>Name</th>
<th>服务及成就</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams, John</td>
<td>Member and Advisor, CTSI KL2 Grant Program; Chair, UCLA-UCI Alpha Stem Cell Clinic Internal Advisory Board; Chair, UCLA Scientific Review Committee; Member, Executive Oversight Committee, Clinical and Translational Science Institute; Member, Operations Committee and Executive Action Committee, Clinical and Translational Science Institute, David Geffen School of Medicine at UCLA; Member, UCLA Clinical and Translational Science Institute Program Area Leader Committee; Member, Executive Academic Actions Committee, Orthopaedic Surgery; Member, CTSI Institutional Steering Committee; Member, CTSI Seminar (formerly IMED) Committee; Member, Clinical Research Governance Committee; DGSOM Seed Grant Review Committee; DGSOM Oppenheim Grant Review Committee</td>
</tr>
<tr>
<td>Allard, Patrick</td>
<td>Life Science Diversity Advisory Committee; UCLA Faculty Grant Program Committee</td>
</tr>
<tr>
<td>Ardehali, Reza</td>
<td>Co-Director of the UCLA Vascular Biology Training Grant; Member, DGSOM Scholarship Selection Committee; Member, UCLA Medical institutional Review Board</td>
</tr>
<tr>
<td>Berk, Arnold</td>
<td>Chair, MBI Membership Committee</td>
</tr>
<tr>
<td>Bitan, Gal</td>
<td>Judge, Undergraduate Research Poster Day Dean’s Prize; BBSB Ph.D. Home Area Admissions Committee; Judge, Collins Day Poster Session (Neurobiology)</td>
</tr>
<tr>
<td>Black, Douglas</td>
<td>MIMG Vice Chair for Academic Personnel; Chair, MIMG Merit Review Committee; Member, Special Committee for Vice Chancellor for Research; Member, MBI Seminar Committee; Chair, Honors and Awards Committee of Undergraduate Council</td>
</tr>
<tr>
<td>Bowie, James</td>
<td>UCLA Council of Advisors; Sigman Lecture Committee</td>
</tr>
<tr>
<td>Bradley, Peter</td>
<td>IMMP Curriculum and Admissions Committee; Intercollegiate Athletics Committee</td>
</tr>
<tr>
<td>Braun, Jonathan</td>
<td>UCLA Health System Executive Committee; UCLA Health Sciences Data Strategy and Governance Committee</td>
</tr>
<tr>
<td>Braybrook, Siobhan</td>
<td>Member, MCDB Faculty Recruitment Committee (Plant Biology); Member, Life Sciences Diversity Advisory Committee</td>
</tr>
<tr>
<td>Butler, Samantha</td>
<td>Member, Neurobiology Academic Review Committee; Reviewer, UCLA Innovation Fund (DGSOM); Member, MCB Plant Job Search Committee</td>
</tr>
<tr>
<td>Butte, Manish</td>
<td>Co-Director of I3T: Immunity/Inflammation/Infection/Transplantation; Co-Director of Cancer Nano Theme of the Jonsson Comprehensive Cancer Center</td>
</tr>
<tr>
<td>Chen, Irvin</td>
<td>Member, UCLA Dual Use Review Entity; Member, Ad HOC Promotion Committee Chair</td>
</tr>
<tr>
<td>Chen, Jau-Nian</td>
<td>Member, UCLA Academic Senate Council on Research</td>
</tr>
<tr>
<td>Chow, Samson</td>
<td>Chair, Institutional Biosafety Committee; Member, Embryonic Stem Cell Research Oversight Committee</td>
</tr>
<tr>
<td>Name</td>
<td>Membership and Committees</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| **Clarke, Catherine** | Member, Undergraduate Study and Curriculum Committee (Chem & Biochem)  
Member, Diversity and Leadership Committee (Chem & Biochem)  
Member, Development Committee (Chem & Biochem) |
| **Colicelli, John**   | UCLA SPORE in Prostate Cancer Internal Advisory Committee  
Faculty Advisory Committee, Minor in Biomedical Research  
Diversity Oversight Committee, School of Medicine  
DGSOM Medical Education Committee  
JCCC Intramural Review Committee |
| **Coller, Hilary**    | Chair, Ad HOC Committee to Review Dissertation Year Fellowship in Biological Chemistry  
Reviewer, David Geffen Metabolism Theme Seed Funds Applications  
Member, MBI Seminar Committee  
Executive Committee Member, Dermatology T32  
Reviewer, Metabolism Theme Awards  
Member, Faculty Search Committee (MCDB)  
Member, MCDB Promotion Review  
Member, Faculty Search Committee (Biomathematician)  
Member, Jonsson Comprehensive Cancer Center Internal Review Committee  
Member, Broad Stem Cell Center Predoctoral Fellow Review Committee  
Reviewer, Iris Cantor Woman's Health Center  
Reviewer, Jonsson Comprehensive Cancer Center Seed Grants  
Reviewer, UCLA Innovation Fund Grant Applications  
Member, MBI Boyer/Parvin Postdoctoral Fellow Award Committee |
| **De Robertis, Edward** | Chair, Honors Committee (School of Medicine) |
| **Eisenberg, David**  | MBI Seminar Committee  
Chair, Chem & Biochemistry Postdoctoral Research Awards  
Development Committee, Chemistry & Biochemistry Department  
Distinguished Lecture Committee (Chem & Biochem)  
Fianni Fellows Interview Committee |
| **Ernst, Jason**      | Chair, UCLA Bioinformatics Seminar Committee  
Member, UCLA Bioinformatics Admissions Committee  
Member, UCLA Bioinformatics Executive Committee  
Member, UCLA Bioinformatics Written Qualifying Exam Evaluation Committee  
Reviewer, UCLA Stem Cell Training Grants  
Reviewer, UCLA Innovation Fund |
| **Faull, Kym**        | Departmental Representative, Legislative Assembly of the UCLA Academic Senate  
Member, Board of Governors, UCLA Faculty Center  
Member, Personnel Sub-Committee, Board of Governors, UCLA Faculty Center  
UCLA Representative, Legislative Assembly of the UC Academic Senate  
Member, Department of Psychiatry and Biobehavioral Sciences Appointments and Advancements Committee |
| **Fregoso, Oliver**   | Member, Life Sciences Diversity Advisory Committee  
Member, MARC Committee; Boyer/Parvin Postdoctoral Awards Committee |
| **Gelbart, William**  | UCLA Glenn T. Seaborg Medalist and Symposium Honoree |
| **Gonen, Tamir**      | Executive Committee, Department of Physiology UCLA |
| **Guo, Ming**         | Member, Switzer Prize Selection Committee  
Chair, Academic Advisory Council, Sound Body Sound Mind  
Co-Chair, Women in Science & Doctors of Medicine  
Member, Advancement & Promotion Committee in the Department of Neurology Search Committee, Faculty Appointment, Neuroscience |
| **Hallem, Elissa**    | Member, Life Sciences Diversity Advisory Committee  
Member, IMMP Admissions Committee  
Member, Committee for UCLA Neuroscience |
| **Hartenstein, Volker** | Member, Neuroscience IDP Parent Committee  
Member, MCDB Masters Program Committee |
<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Committee</th>
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<tbody>
<tr>
<td>Hevener, Andrea</td>
<td>MEDCAP; Chair, Academic Senate Committee on Development Endocrinology Chief, Search Committee</td>
</tr>
<tr>
<td>Hirsch, Ann</td>
<td>Ad HOC Member, Biosafety Committee</td>
</tr>
<tr>
<td>Hoffmann, Alexander</td>
<td>Member, Task force on Computational Biology, Genomics and Medicine</td>
</tr>
<tr>
<td>Iruela-Arispe, Luisa</td>
<td>Member, UCLA Search Committee for Academic Personnel Vice-Chancellor Member, UCLA Undergraduate Research Scholar Program Review</td>
</tr>
</tbody>
</table>
| Jacobsen, Steven    | Director, Broad Stem Cell Research Center Sequencing Facility MCDB Prize and Award Committee  
                      | UCLA Ben Gurion Committee (Leshin Fund) Personnel Action Committees               |
| Johnson, Tracy      | UCLA Center for the Study of Women Advisory Committee  
                      | UCLA Moreno Implementation Committee  
                      | Chair, Life Sciences Diversity Advisory Committee  
                      | CMB Training Grant Advisory Committee; Dean, Undergraduate Education Review Committee  
                      | UCLA Human Pluripotent Stem Cell Research Oversight                                 |
| Kaufman, Daniel     | Department of Molecular & Medical Pharmacology Merit Review Committee              |
| Koehler, Carla      | Chair, IAC Committee  
                      | Co-Director, CMB Training Grant  
                      | Member, CBI Advisory Committee  
                      | Member, Student Athlete Admissions Committee                                        |
| Kohn, Donald        | Member, JCCC Data Safety Monitoring Committee  
                      | Chair, Data Safety Monitoring Board for "Gene Correction of Autologous Hematopoietic Stem Cells in Artemis Deficient SCID  
                      | UCLA-UCI Alpha Stem Cell Clinic Internal Advisory Committee                          |
| Lazazzera, Beth     | Chair, Academic Senate Undergraduate Council  
                      | Member, Academic Senate Executive Board                                            |
| Lee, Justine        | Member, UCLA Honors, Awards and Prizes Committee  
                      | Member, UCLA Children's Surgical Group  
                      | Co-Director, UCLA Multi-Disciplinary Vascular Birthmark Clinic                      |
| Li, Melody          | Member, UCLA Graduate Programs in Bioscience Admissions Committee for the IMMP Home Area  
                      | Member, I3T Communications Committee                                              |
| Lipshutz, Gerald    | Member, CASPP                                                                     |
| Loo, Joseph         | Member, UCLA/DOE Laboratory for Genomics and Proteomics  
                      | Member, UCLA Molecular Biology Institute  
                      | Member, Dept. Chemistry and Biochemistry Instrumentation Committee  
                      | Member, Dept. Chemistry and Biochemistry Development Committee  
                      | Member, Advisory Committee, UCLA Molecular Instrumentation Center  
                      | Member, Graduate Studies Committee, Department of Chemistry and Biochemistry Graduate Adviser, Analytical Chemistry/Measurement Science Ph.D. Specialization, Department of Chemistry and Biochemistry  
                      | Member, UCLA Academic Senate Committee on Development  
                      | Member, UCLA Academic Senate Graduate Council                                      |
| McEvoy, Megan       | Member, Faculty Search Committee (MIMG)  
                      | Member, Amgen Faculty Review Committee  
                      | Member, MBI Membership Review Committee  
<pre><code>                  | Mentor, Regents Scholar Society                                                    |
</code></pre>
<p>| Morrison, Sherie    | Member, UCLA College Campaign Committee                                            |
| Nakano, Austin      | Legislative Assembly, Cardiovascular Theme Research Committee                     |</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>Positions and Responsibilities</th>
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<tbody>
<tr>
<td>Novitch, Bennett</td>
<td>Member, Broad Center for Regenerative Medicine and Stem Cell Research Steering Committee</td>
</tr>
<tr>
<td></td>
<td>Member, UCLA Neuroscience Interdepartmental Graduate Program Membership Committee</td>
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<tr>
<td></td>
<td>Member, UCLA Molecular Biology Institute Membership Committee</td>
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<tr>
<td></td>
<td>Member, UCLA Animal Program for Neural Repair</td>
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<tr>
<td></td>
<td>Member, UCLA Clinical and Translational Sciences Institute Scientific Review Committee</td>
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<tr>
<td></td>
<td>Member, David Geffen School of Medicine at UCLA Neurosurgery Chair Search Committee</td>
</tr>
<tr>
<td>O'Sullivan, Timothy</td>
<td>Member, I3T Communications Committee</td>
</tr>
<tr>
<td></td>
<td>Member, IMMP Admissions Committee; Member, I3T Seminar Series Committee</td>
</tr>
<tr>
<td>Pellegrini, Matteo</td>
<td>Member, Committee to Evaluate Computational Biology (Genomics &amp; Medicine Landscape UCLA)</td>
</tr>
<tr>
<td>Plath, Kathrin</td>
<td>Chair, Switzer Prize Committee</td>
</tr>
<tr>
<td></td>
<td>Member, DGSOM-CTSI Recruitment Committee</td>
</tr>
<tr>
<td>Pyle, April</td>
<td>Chair, Life Sciences Excellence in Research Awards Committee</td>
</tr>
<tr>
<td></td>
<td>Member, UCLA Assistant Professor Mentorship Program</td>
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<tr>
<td></td>
<td>Life Sciences Mentorship Faculty Search Committee</td>
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<tr>
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<td>Member, Life Sciences Diversity Advisory Committee</td>
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<tr>
<td>Quinlan, Margot</td>
<td>Co-Chair, UCLA MBI Seminar Committee</td>
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<tr>
<td>Reddy, Srinvasa</td>
<td>Member, Committee on Teaching</td>
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<td></td>
<td>Member, Legislative Assembly</td>
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<tr>
<td>Reue, Karen</td>
<td>Medical Scientists Training Program Admissions Committee</td>
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<td>MBI Post-doctoral Award Selection Committee</td>
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<td>Boyer-Parvin Postdoctoral Award Committee</td>
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<tr>
<td>Sallam, Tamer</td>
<td>Member, Cardiovascular Theme Communications and Development Committee Member, STAR Program Selection Committee</td>
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<tr>
<td>Schweizer, Felix</td>
<td>Interim Director, Brain Research Institute</td>
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<td>Chair, Graduate Neuroscience Interdepartmental Program</td>
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<tr>
<td>Spencer, Melissa</td>
<td>Member, ESCRO Committee</td>
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<td></td>
<td>Member, Advancements and Promotions Committee (Neurology)</td>
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<td></td>
<td>Neuromuscular Program Director</td>
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<tr>
<td></td>
<td>Co-Director, Center for Duchenne Muscular Dystrophy</td>
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<tr>
<td>Sun, Ren</td>
<td>Co-Director, UCLA Fogarty AITRP program on AIDS-associated Cancers</td>
</tr>
<tr>
<td></td>
<td>Co-Director, Co-Infection and Malignancies Program, UCLA AIDS Institute</td>
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<tr>
<td></td>
<td>Director, Medical Pharmacology Track of the Molecular and Medical Pharmacology</td>
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<td></td>
<td>Pharmacology Graduate Training Committee</td>
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<tr>
<td></td>
<td>UCLA Optimize Career Service Provision for Graduate and Postdoctoral Students Committee</td>
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<td></td>
<td>UCLA Postdoctoral Scholars Advisory Committee</td>
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<tr>
<td></td>
<td>Chair, UCLA Cross-Disciplinary Training Committee</td>
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<td>Steering Committee of UCLA China Initiatives</td>
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<tr>
<td></td>
<td>Advisory Committee of UCLA International Institute</td>
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<tr>
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<td>Advisory Committee of UCLA Confucius Institute</td>
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<tr>
<td></td>
<td>UCLA CTSI Education Committee</td>
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<tr>
<td>Teitell, Michael</td>
<td>Co-Director, NIH T32 Tumor Immunology Training Program</td>
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<tr>
<td></td>
<td>Associate Director, UCLA-Caltech Medical Scientist Training Program (MSTP) Selection Committee</td>
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<tr>
<td></td>
<td>MBI Seminar Series</td>
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<tr>
<td></td>
<td>Admissions Committee, Intercollegiate Student-Athletes</td>
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<tr>
<td></td>
<td>Training Grant Committee, CSUN-CIRM Bridges to Stem Cell Biology</td>
</tr>
<tr>
<td></td>
<td>NCAA Faculty Athletics Representative; UCLA Intercollegiate Student-Athletes Academic Senate</td>
</tr>
<tr>
<td></td>
<td>Intercollegiate Athletics Committee (IAC)</td>
</tr>
<tr>
<td>Tontonoz, Peter</td>
<td>UCLA Representative to the UC System-wide Academic Senate</td>
</tr>
<tr>
<td>Torres, Jorge</td>
<td>Chair, Committee on Continuing and Community Education</td>
</tr>
<tr>
<td></td>
<td>Member, Graduate Council/Graduate Division, Mentoring and Evaluation of Graduate</td>
</tr>
<tr>
<td></td>
<td>Academic Progress Workgroup</td>
</tr>
<tr>
<td></td>
<td>Member, Undergraduate Council’s Honors, Awards &amp; Prizes Committee</td>
</tr>
<tr>
<td></td>
<td>Member, Diversity Committee for the Division of Physical Sciences</td>
</tr>
<tr>
<td>Name</td>
<td>Position/Committee</td>
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<tr>
<td>Wang, Yibin</td>
<td>DGSOM Executive Research Committee</td>
</tr>
<tr>
<td>Weiss, Shimon</td>
<td>UCLA Chemistry Department Development Committee</td>
</tr>
<tr>
<td></td>
<td>UCLA Chemistry Department Instrumentation Committee</td>
</tr>
<tr>
<td></td>
<td>UCLA CNSI Molecular Screening Shared Resource Advisory Board</td>
</tr>
<tr>
<td>Witte, Owen</td>
<td>UCLA SPORE in Prostate Cancer Executive Committee</td>
</tr>
<tr>
<td></td>
<td>UCLA Clinical and Translational Science Institute Advisory Committee</td>
</tr>
<tr>
<td></td>
<td>UCLA Dept. Chairs, Major Centers &amp; Directors Committee</td>
</tr>
<tr>
<td></td>
<td>DGSOM JCCC Director’s Search Committee</td>
</tr>
<tr>
<td></td>
<td>Geffen Scholarship Selection Committee; Chair, Belzer Chair Search</td>
</tr>
<tr>
<td>Xiao, Xinshu (Grace)</td>
<td>Faculty Mentor, Regents Scholar Society at UCLA</td>
</tr>
<tr>
<td></td>
<td>Faculty Search Committee for Mathematical Biology, Life Sciences, UCLA</td>
</tr>
<tr>
<td></td>
<td>Personnel Committee, Department of Integrative Biology and Physiology, UCLA Advisory Committee, Institute for Quantitative and Computational Biology, UCLA Advisory Committee, Bioinformatics IDP, UCLA Advisory Committee, Computational and Systems Biology IDP, UCLA</td>
</tr>
<tr>
<td>Yang, X. William</td>
<td>Member, UCLA MSTP Admissions Committee</td>
</tr>
<tr>
<td></td>
<td>Member, Faculty Advisory Committee to the UCLA Accelerator</td>
</tr>
<tr>
<td>Yeaman, Michael</td>
<td>Member, Executive Committee UCLA I3T Program</td>
</tr>
<tr>
<td>Zack, Jerome</td>
<td>Chair, High Containment Lab Oversight Committee</td>
</tr>
<tr>
<td></td>
<td>Chair, Dual Use Research Committee</td>
</tr>
<tr>
<td>Zhang, Ye</td>
<td>Member, NSIDP Admissions Committee</td>
</tr>
<tr>
<td>Zheng, Jie</td>
<td>Member, UCLA Academic Senate Committee on Faculty Welfare</td>
</tr>
</tbody>
</table>

**MBI FACULTY SERVICE ON EXTERNAL COMMITTEES**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams, John</td>
<td>Member and Former Chair, External Advisory Panel for the Mayo Clinic NIA PPG &quot;Gonadal Steroids and Bone&quot;</td>
</tr>
<tr>
<td></td>
<td>Member, External Advisory Committee for the Mayo Medical Center T32 &quot;Musculoskeletal Research Training Program&quot;</td>
</tr>
<tr>
<td></td>
<td>Member, Data Safety Monitoring Board, NIDDK-sponsored &quot;Vitamin D and Type 2 Diabetes (D2d)&quot; study</td>
</tr>
<tr>
<td></td>
<td>Charter Member, Arthritis, Musculoskeletal and Skin (AMS) Study Section, NIAMS NIH Member and Chair, External Advisory Board, Johns Hopkins Orthopaedic Surgery NIH T32</td>
</tr>
<tr>
<td></td>
<td>Member, External Advisory Board, Mayo Clinic Orthopaedic Surgery NIH T32 Member, External Advisory Board, Washington University, Musculoskeletal NIHT32 Member, External Advisory Board, Washington University, Musculoskeletal NIH P50 Chair, External Advisory Panel for the Harbor-UCLA NIDDK T32 &quot;Training in Endocrinology and Metabolism&quot; Chair, Los Angeles BioMed Scientific Advisory Board</td>
</tr>
<tr>
<td></td>
<td>Member, CIRM-Alpha Stem Cell Clinic Network Director's Steering Committee</td>
</tr>
<tr>
<td>Allard, Patrick</td>
<td>NIH SIEE Study Section</td>
</tr>
<tr>
<td></td>
<td>NIH IRAP Study Section</td>
</tr>
<tr>
<td></td>
<td>California’s Developmental and Reproductive Toxicant Identification Committee</td>
</tr>
<tr>
<td>Bitan, Gal</td>
<td>Editorial Board Member, Journal of Biological Chemistry</td>
</tr>
<tr>
<td></td>
<td>Editorial Board Member, Scientific Reports</td>
</tr>
<tr>
<td></td>
<td>Ad HOC Member, NIH Special Emphasis Panel/Scientific Review Group ZRG1 MDCN-E(52), MDCN-E(56), MDCN-E(57), MDCN-P(52)</td>
</tr>
<tr>
<td>Black, Douglas</td>
<td>Member, NIGMS Study Section for Junior MIRA Awards</td>
</tr>
<tr>
<td>Bowie, James</td>
<td>Stockholm University Search Committee</td>
</tr>
<tr>
<td></td>
<td>Biophysical Society Awards Committee</td>
</tr>
<tr>
<td></td>
<td>Chair of Gordon Conference on Membrane Protein Folding</td>
</tr>
<tr>
<td>Braun, Jonathan</td>
<td>Chair, Exploratory Studies for Delineating Microbiome (ZDK1 GRB-6 M2)</td>
</tr>
<tr>
<td>Name</td>
<td>Role / Committee</td>
</tr>
<tr>
<td>-----------------------------</td>
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</tr>
<tr>
<td>Braybrook, Siobhan</td>
<td>Academic Editor, Plant Direct</td>
</tr>
<tr>
<td>Butte, Manish</td>
<td>Member, ASPB Digital Futures Committee</td>
</tr>
<tr>
<td>Carey, Michael</td>
<td>JBC and MCB Editorial Boards, Ad Hoc, NIH MGB Study Section</td>
</tr>
<tr>
<td>Chen, Jau-Nian</td>
<td>Member, CDD NIH Study Section</td>
</tr>
<tr>
<td>Chow, Samson</td>
<td>Member, AMCB NIH Study Section</td>
</tr>
<tr>
<td>Clubb, Robert</td>
<td>Member, MSFC NIH Study Section</td>
</tr>
<tr>
<td>Colicelli, John</td>
<td>Cancer Research Coordinating Committee</td>
</tr>
<tr>
<td>Coller, Hilary</td>
<td>Reviewer, R35 Maximizing Investigators’ Research Award for Early Stage Investigators Reviewer, Austrian Science Fund</td>
</tr>
<tr>
<td>De Robertis, Edward</td>
<td>Board Member, Latin American Society of Developmental Biologists, Scientific Advisory Board, Pew Charitable Latin American Fellows Program, Scientific Council, Academia de Ciencias de America Latina</td>
</tr>
<tr>
<td>Eisenberg, David</td>
<td>HARC Center Scientific Advisory Board, Visiting Committee, Caltech Beckman Institute</td>
</tr>
<tr>
<td>Ernst, Jason</td>
<td>Temporary Member, GCAT NIH Study Section</td>
</tr>
<tr>
<td>Faull, Kym</td>
<td>Member, Advisory Board of the International Journal of Medical Biochemistry</td>
</tr>
<tr>
<td>Fregoso, Oliver</td>
<td>Co-Organizer, Palm Springs Meeting on HIV/AIDS</td>
</tr>
<tr>
<td>Gelbart, William</td>
<td>Chair, Chemistry Graduate Studies Committee</td>
</tr>
<tr>
<td>Gera, Joseph</td>
<td>Member, Bench Testing Therapeutic/Indication Pairing Strategies (UG3/UH3), NCATS, NIH Study Section</td>
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<td>Goldstein, Andrew</td>
<td>Member, 2018 Prostate Cancer Foundation Challenge Award</td>
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<td>Gonen, Tamir</td>
<td>Member, BBM NIH Study Section</td>
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<td>Guo, Ming</td>
<td>Scientific Selection Committee, McEwan Neuroscience Foundation</td>
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<td>Gwack, Yousang</td>
<td>Ad HOC Member, CMIB and Special Emphasis Panel, NIH Study Section</td>
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<td>Hallem, Elissa</td>
<td>Ad HOC Panelist, NIH Chemosensory Systems Study Section</td>
</tr>
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</table>
| Hartenstein, Volker         | Member, NIH NIMH Brain Initiative Study Panel  
Section Editor, Cell and Tissue Research  
Section Editor, Developmental Neurobiology  
Section Editor, Arthropod Structure and Development |
| Hevener, Andrea             | American Diabetes Association Scientific Sessions Organizing Committee  
NIH Special Emphasis Panels |
| Hill, Kent                  | Scientific Advisory Council of the Arnold and Mabel Beckman Foundation |
| Hirsch, Ann                 | Member, ASPB Fellows Award Nominating Committee  
Reviewer, European Research Commission  
Associate Editor, Plant Signaling & Behavior  
Communicating Editor, Molecular Genetics and Genomics |
| Hoffmann, Alexander         | Editorial Board, Cell Research, Molecular Systems Biology, MBC Systems Biology |
| Houk, Kendall               | Editorial Advisory Board, Journal of Organich Chemistry, Organic Letters,  
Accounts of Chemical Research  
Journal of Chemical Theory and Computation |
| Iruela-Arispe, Luisa        | Associate Editor, Atherosclerosis, Thrombosis and Vascular Biology Journal  
Editorial Board Member, Angiogenesis Journal  
Editorial Board Member, Cancer Biology and Therapy Journal  
Editorial Board Member, Cell Biology Journal  
Editorial Board Member, Atherosclerosis, Thrombosis and Vascular Biology  
Editorial Board Member, Cardiovascular Pathology  
Editorial Board Member, Cancer Research  
Editorial Board Member, Journal of Experimental Medicine  
Reviewer, Italian Association for Cancer Research (AIRC)  
Member, NIH/NCI - Board of Scientific Counselors for Basic Sciences  
Member, NHLBI Advisory Council Board |
| Jacobsen, Steven            | Editorial Board Member, Current Biology  
Editorial Board Member, Epigenomics  
Editorial Board Member, Genetics and Epigenetics  
Editorial Board Member, Epigenetics and Chromatin  
Editorial Board Member, Epigenomes  
Advisory Board Member, EPIC  
Editorial Board Member, Non-Genetic Inheritance  
National Academy of Sciences Section Liaison |
| Johnson, Reid               | NIH Special Emphasis Review Panel |
| Johnson, Tracy              | National Cancer Institute, Board of Scientific Counselors for Basic Research |
| Kaufback, H. Ronald         | NHLBI Board of Scientific Site Visit Review |
| Kaufman, Daniel             | Ad HOC Reviewer, Juvenile Diabetes Research Foundation  
Ad HOC Reviewer, Geneva University Hospitals & Faculty of Medicine Research Foundation  
Ad HOC Reviewer, NIH RFA-DK-003  
Ad HOC Reviewer, Cystic Fibrosis Foundation  
Editorial Board, J. Clinical & Cellular Immunology  
Scientific Advisory Board, Diamyd Medical |
| Kelesidis, Theodoros        | Ad HOC Reviewer, NIH NeuroAIDS and other End-organ Diseases Study Section  
Ad HOC Reviewer, NIH AIDS Clinical Studies and Epidemiology Study Section  
Ad HOC Reviewer, NIH AIDS Special Emphasis Study Section |
| Koehler, Carla              | Member, NOMD NIH Study Section  
Member, AHA Grant Reviewer Panel  
Scientific and Advisory Board of United Mitochondrial Disease Foundation  
Scientific Advisory Board of Oxalosis and Hyperoxaluria Foundation |
| Kohn, Donald                | Member, External Advisory Board, SCID-NET  
Member, Immuno-and Gene Therapy Committee  
Member, 2018 Annual Meeting Organizing Committee  
Member, Review Panel for the Doris Duke Charitable Foundation's Clinical Scientist Development Award  
Member, Clinical Advisory Panel |
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliations</th>
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| Kurdistani, Siavash | Ad HOC Member, Special Emphasis Panel, NIH  
Ad HOC Member, Fellowship: Genes, Genomes, and Genetics (ZRG1 F08) Study Section, NIH  
Ad HOC Member, Cancer Molecular Pathobiology (CAMP) Study Section  
Ad HOC Member, Grant Review Panel, Cancer Research |
| Lazazzera, Beth   | Member, NIH TWD-B Study Section; Member, NSF Gene Expression Panel  
Loo, Joseph        | GDD NIH Study Section Reviewer  
Editor-in-Chief, Journal of the American Society for Mass Spectrometry  
Editorial Board, Mass Spectrometry Reviews  
Editorial Board, Clinical Proteomics  
Editorial Board, International Journal of Mass Spectrometry  
Member, US HUPO Board of Directors  
Member, Board of Directors, Consortium for Top-Down Proteomics  
Member, Founding Executive Board, Los Angeles Metropolitan Mass Spectrometry Discussion Group  
Co-Organizer, 14th Uppsala Conference on Electron Capture and Transfer Dissociation |
| Novitch, Bennett  | Ad HOC Member, NIH Neurogenesis and Cell Fate Study Section  
Ad HOC Member, NIH Molecular, Cellular, and Developmental Neuroscience Integrated Review Group  
Ad HOC Member, Missouri Spinal Cord Injury/Disease Research Program |
| Plath, Kathrin    | Board of Reviewing Editors, Science  
Chair, Publications Committee, ISSCR  
Member, International Committee, ISSCR  
Member, TWD-D NIH Study Section  
Member, CII NIH Study Section  
CDD Study Section; PPG Study Section  
Ad HOC Member, NIH Neurogenesis and Cell Fate Study Section  
Ad HOC Member, NIH Molecular, Cellular, and Developmental Neuroscience Integrated Review Group  
Ad HOC Member, Missouri Spinal Cord Injury/Disease Research Program  
Research Grants Council  
Areas of Excellence Monitoring and Assessment Panel |
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<tr>
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<tr>
<td>Pyle, April</td>
<td>Ad HOC, MDA Study Section</td>
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<td>Ad HOC, SMEP NIH Study Section</td>
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<td>Quinlan, Margot</td>
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<td>Reddy, Srinvasa</td>
<td>NIH Special Emphasis Panel, Vascular Hematology</td>
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<td>Reue, Karen</td>
<td>NHLBI Institutional Training Mechanism Review Committee</td>
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<td>Schweizer, Felix</td>
<td>Life-Trustee, The Grass Foundation</td>
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<tr>
<td>Smale, Steven</td>
<td>Member, NIH CMIA Study Section</td>
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<td>Member, Blavatnik Awards for Young Scientists National Jury</td>
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<tr>
<td>Soragni, Alice</td>
<td>BiOOverlay Associate Editor, BiorXiv Affiliate</td>
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<td>Member NPIS Advisory Board</td>
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<td>Spencer, Melissa</td>
<td>Chair, Scientific Advisory Board, Coalition to Cure Calpain 3</td>
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<td>Ad hoc, Skeletal Muscle, Exercise Physiology Study Section</td>
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<td></td>
<td>Member, Scientific Advisory Committee Muscular Dystrophy Association</td>
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<td>Member, Scientific Advisory Board, Parent Project Muscular Dystrophy</td>
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<td>Reviewer, Jesse Journey Foundation; Organizer, FASEB Summer Conference on Calpains in Health and Disease</td>
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<tr>
<td>Sun, Ren</td>
<td>Board of Scientific Counselors, National Cancer Institute</td>
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<td>Tamanoi, Fuyuhiko</td>
<td>Series Editor, The Enzymes, Academic Press/Elsevier</td>
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<td>Tang, Yi</td>
<td>DOE BER Review Panel, Editorial Board of Metabolic Engineering</td>
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<td>Tarling, Elizabeth</td>
<td>Member, VCMB and R03 SEP NIH/NHLBI Study Sections</td>
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<td>Member, AHA Fellowships Lipids &amp; Thrombosis Peer Review Committee, Deuel Conference Board</td>
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<td>Teitell, Michael</td>
<td>NIH, Cancer Center Support Grant Review Team, NCI Office of Cancer Centers International Scientific Council, Israel Cancer Research Foundation</td>
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<td>Scientific Advisory Board, The Methodist Research Institute</td>
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<td>Chair, Mountain Pacific Sports Federation Administrative Committee</td>
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<td>Tetradis, Sotirios</td>
<td>Ad HOC Member, ODCS Study Section, NIH</td>
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<td>Tontonoz, Peter</td>
<td>Editor-In-Chief, Molecular and Cellular Biology</td>
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<td>Torres, Jorge</td>
<td>Ad HOC, NIH-NIGMS Cell Biology and Regulatory Systems Study Section</td>
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<td>Wang, Yibin</td>
<td>Editorial Board Member, JBC, Circulation Research, Journal of Molecular and Cellular Cardiology</td>
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<td>Member, Scientific Advisory Board of Keystone Symposium</td>
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<tr>
<td>Weiss, Shimon</td>
<td>Scientific Advisory Board, Max Planck Institute for Medical Research, Heidelberg, Germany</td>
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<td>Whitelegge, Julian</td>
<td>Member, EBIT NIH Study Section</td>
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<td>Williams, David</td>
<td>Beckman-Argyros Award Executive Committee</td>
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<td>Grant Reviewer, Fight for Sight, UK</td>
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<td></td>
<td>Foundation for Fighting Blindness Study Section</td>
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<td>Guest Editor, Proceedings of the National Academy of Sciences</td>
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<td>Witte, Owen</td>
<td>2018 Louis-Jeantet Foundation Review Committee</td>
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<td>President’s Cancer Panel</td>
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<td>Children’s Research Institute, UT Southwestern Medical Center, External Advisory Board Anderson</td>
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<td>National Academy of Sciences Temp. Nominating Group, Class IV</td>
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<tr>
<td>Wong, David</td>
<td>Chartered Member, Cancer Biomarker Study Section, NIH Center of Scientific Review</td>
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<tr>
<td>Xiao, Xinshu (Grace)</td>
<td>NIH NCI 2018/08 Immuno-Oncology Translation Network Study Section, ZCA1 SRB-C (A1) R</td>
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<td>Ad HOC, NIH CSR Special Emphasis Panel</td>
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<td>Ad HOC, Israel Science Foundation; Member, NIH Biodata Management and Analysis Study Section</td>
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</table>
Yang, X. William  | Chartered Member, NIH Cellular and Molecular Biology of Neurodegeneration Study Section  
Scientific Advisory Board Member, Hereditary Disease Foundation  
Editorial Board Member, Molecular Neurodegeneration  
Editorial Member, Journal of Huntington’s Disease  

Yeaman, Michael  | NIH Study Section Service: NIH ZRG1  
Editorial Board Service: PLoS Pathogens  

Zheng, Jie  | Scientific Reviewer, Technology/Therapeutic Development Award Application Review Committee  
Vision Research Program  
Member, Professional Development and Education Committee, Association for Research in Vision and Ophthalmology  
Editorial Board, Cell Communication & Signaling  

Zhou, Hong  | Ad HOC, NSF and NIH Review Committee  

### PATENTS ISSUED 2017-2018

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<th>Member</th>
<th>Patent Name</th>
<th>Patent Number</th>
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<tr>
<td>Clubb, Robert</td>
<td>Methods and compositions to increase the rate of litigation reactions catalyzed by a sortase</td>
<td>15164</td>
<td>R. Clubb, B. Amer</td>
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<tr>
<td>Eisenberg, David</td>
<td>Structure-based Peptide Inhibitors of P53 Aggregation as a New Approach to Cancer Therapeutics</td>
<td>9,873,718</td>
<td>A. Soragni, L. Jiang</td>
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<tr>
<td>Kaufman, Daniel</td>
<td>Gaba Antagonists in the Treatment of Disorders Associated with Metabolic Syndrome and Gaba Combinations in Treatment or Prophylaxis of Type I Diabetes</td>
<td>9,820,955</td>
<td>D. Kaufman, J. Tian</td>
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<td>Morrison, Sherie</td>
<td>CD138-Targeted interferon demonstrated potent apoptotic and anti-tumor activities.</td>
<td>9,803,021</td>
<td>S. Morrison</td>
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<tr>
<td>Nakano, Austin</td>
<td>Metabolic interventions for prevention of congenital heart disease</td>
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<td>A. Nakano, H. Nakano</td>
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<td>Pyle, April</td>
<td>Methods for generating and enriching skeletal muscle progenitor cells</td>
<td>62/443, 499</td>
<td>Hicks, A. Pyle</td>
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<td>Soragni, Alice</td>
<td>Structure-based Peptide Inhibitors of P53 Aggregation as a New Approach to Cancer Therapeutics</td>
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<td>Spencer, Melissa</td>
<td>CRISPR/CAS9 Mediated Genome; Drugs That Increase Muscle Mass; Nanoparticle Delivery CRISPR; Polyrtaxane Nanoparticles; Stem Cell Delivery</td>
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<td>Tang, Yi</td>
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<td>62/474,528</td>
<td>S. Jacobsen, Y. Tang, Y. Yan, Y. Liu</td>
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<td>Teitell, Michael</td>
<td>Use of Live Cell Interferometry to Determine Changes in Mass of Mammalian Cells</td>
<td>9,810,683</td>
<td>J. Gimzewski, J. Reed, M. Teitell</td>
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<td>Weiss, Shimon</td>
<td>Electronic displays using optically pumped luminescent semiconductor nanocrystals; Semiconductor nanocrystal probes for biological applications and process for making and using such probes</td>
<td>9,063,363; 9,182,621; 9,671,536; 9,530,928</td>
<td>S. Weiss, Schlamp, M.C., Alivisatos, A.P.; S. Weiss, M. Bruchez, Jr., P. Alivisatos</td>
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<tr>
<td>Yang, X. William</td>
<td>A Cell-Based Seeding Assay for Huntington Aggregation</td>
<td>62/571,433</td>
<td>X. W. Yang</td>
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<td>Yeaman, Michael</td>
<td>Peptides and methods for inducing cell death</td>
<td>9,562,083</td>
<td>M. Yeaman, N.Y. Yount, E.P. Brass</td>
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<td>Anti-infective hydroxy-phenyl benzoates and methods of use</td>
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<td>M. Yeaman, A.S. Bayer</td>
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<td>Host</td>
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<td>Zack, Jerome</td>
<td>Engineering anti-viral T cell immunity through stem cells and chimeric antigen receptors</td>
<td>9951118</td>
<td>S. Kitchen, J. Zack, O.O. Yang, I. Chen, M. Kamata</td>
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<tr>
<td>Black, Douglas</td>
<td>Huda Alalami</td>
<td>Cornell University</td>
<td>6/19/17 to 9/8/2017</td>
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<tr>
<td></td>
<td>Ziziheng Li</td>
<td>University of Tokyo</td>
<td>12/1/17 to present</td>
</tr>
<tr>
<td>Black, Douglas</td>
<td>Hidehito Kuroyanagi, PhD</td>
<td>Tokyo Medical and Dental University</td>
<td>9/17 to 6/18</td>
</tr>
<tr>
<td>Black, Douglas</td>
<td>Manuel Ares, Ph.D.</td>
<td>University of California, Santa Cruz</td>
<td>1/18 to 2/18</td>
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<tr>
<td>Black, Douglas</td>
<td>Melissa Jurica, Ph.D.</td>
<td>University of California, Santa Cruz</td>
<td>2/18 to 3/18</td>
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<tr>
<td>Chen, Irvin</td>
<td>Lan Wang, Ph.D.</td>
<td>Peking Union Medical College</td>
<td>7/1/17 to present</td>
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<tr>
<td>Clarke, Catherine</td>
<td>Lucia Fernandez del Rio, Ph.D.</td>
<td>University of Cordoba</td>
<td>10/1/2017 to 6/30/2018</td>
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<tr>
<td>De Robertis, Edward</td>
<td>Lauren Albrecht, Ph.D.</td>
<td>Northwestern University</td>
<td>7/15 to present</td>
</tr>
<tr>
<td>De Robertis, Edward</td>
<td>Gabriele Colozza, Ph.D.</td>
<td>University of Siena</td>
<td>6/2012 to present</td>
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<tr>
<td>De Robertis, Edward</td>
<td>Yi Ding, Ph.D.</td>
<td>Tsingua University</td>
<td>1/2014 to present</td>
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<tr>
<td>De Robertis, Edward</td>
<td>Yuki Moriyama, Ph.D.</td>
<td>Shizuoka University</td>
<td>6/2013 to 8/2018</td>
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<tr>
<td>De Robertis, Edward</td>
<td>Nydia Tejeda, Ph.D.</td>
<td>National Autonomous University of Mexico</td>
<td>9/1/2016 to present</td>
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<td>Faull, Kym</td>
<td>Haiqiang Wu, Ph.D.</td>
<td>Shenzhen University</td>
<td>12/17 to 8/18</td>
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<td>Gunsalus, Robert</td>
<td>Anzou Ma, Ph.D.</td>
<td>Chinese Academy of Sciences</td>
<td>10/1/16 to 10/17</td>
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<td>Usman Ahmad, M.S.</td>
<td>GC University (Pakistan)</td>
<td>5/1/17 to 2/1/18</td>
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<tr>
<td>Houk, Kendall</td>
<td>Eric Block, Ph.D.</td>
<td>Albany University</td>
<td>1/1/18 to 6/30/18</td>
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<tr>
<td>Houk, Kendall</td>
<td>Xiao-Song Xue, Ph.D.</td>
<td>Nankai University</td>
<td>10/1/17 to 6/30/18</td>
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<tr>
<td>Houk, Kendall</td>
<td>Yilei Zhao, Ph.D.</td>
<td>Shanghai Jiao-Tong University</td>
<td>7/1/18 to 6/30/19</td>
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<td>Jacobsen, Steven</td>
<td>Maria Nohales, Ph.D.</td>
<td>University of Southern California</td>
<td>7/1/17 to 4/30/18</td>
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<tr>
<td>Johnson, Reid</td>
<td>Kiyoto Kamagata, Ph.D.</td>
<td>Tohoku University</td>
<td>8/1/17 to 3/31/18</td>
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<tr>
<td>Johnson, Tracy</td>
<td>Manuel Ares, Ph.D.</td>
<td>University of California, Santa Cruz</td>
<td>1/2018 to 3/2018</td>
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<td>Johnson, Tracy</td>
<td>Marat Pavliukov, Ph.D.</td>
<td>University of Alabama at Birmingham</td>
<td>3/2018 to 5/2018</td>
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<td>Kelesidis, Theodoros</td>
<td>Anthanasios Kossyvakis, Ph.D.</td>
<td>Institut Pasteur International Network - Hellenic Pasteur Institute</td>
<td>07/01/17 to 06/30/18</td>
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<td>Lin, Chentao</td>
<td>Xu Wang, Ph.D.</td>
<td>Fujain Agriculture University</td>
<td>12/1/17 to 1/31/18</td>
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<td>Loo, Joseph</td>
<td>Xinhua Guo, Ph.D.</td>
<td>Jilin University</td>
<td>3/2018 to present</td>
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<tr>
<td>Nakano, Austin</td>
<td>Ayako Shigenta, MD, Ph.D.</td>
<td>Chiba University</td>
<td>1/1/2017 to 12/31/2017</td>
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<td>Pellegrini, Matteo</td>
<td>Davide Varnevali, Ph.D.</td>
<td>University of Parma</td>
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<tr>
<td>Reddy, Srinvasa</td>
<td>Xinying Yang, Ph.D.</td>
<td>Chinese Academy of Sciences</td>
<td>06/2016 to 09/2017</td>
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<tr>
<td>Reue, Karen</td>
<td>Yunlan Li, Ph.D.</td>
<td>Shanxi Medical University</td>
<td>9/1/2017 to 8/31/2018</td>
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<tr>
<td>Rodriguez, Jose</td>
<td>Gustavo Helguera, Ph.D.</td>
<td>CONICET</td>
<td>11/30/2017 to 02/01/2018</td>
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<tr>
<td>Name</td>
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<td>Affiliation 2</td>
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<tr>
<td><strong>Yang, X. William</strong></td>
<td>Christian Neri, Ph.D.</td>
<td>Institute of Biology Paris-Seine</td>
<td>07/2017 to 08/2017</td>
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<tr>
<td><strong>Yeaman, Michael</strong></td>
<td>Liana Chan, Ph.D.</td>
<td>University of California, Berkeley</td>
<td>2014 to present</td>
</tr>
<tr>
<td></td>
<td>Wpulie Narawatne, M.D.</td>
<td>Pediatrics, Harbor-UCLA</td>
<td>2016 to present</td>
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<td><strong>Zhou, Hong</strong></td>
<td>Kaituo Wang, Ph.D.</td>
<td>University of Copenhagen</td>
<td>8/1/2016 to 1/31/2018</td>
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<td>Xue Yang, Ph.D.</td>
<td>Nankai University</td>
<td>12/15/2016 to 12/14/2017</td>
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</tbody>
</table>
PARTNERS
IN
BOYER HALL
QCBio is housed on the 5th floor of Boyer Hall and encompasses a range of quantitative and computational biosciences research, research training and educational program. QCBio Laboratories develop cutting edge quantitative and computational tools, ranging from statistical analysis and modeling approaches to physics-based algorithms and mechanistic modeling. QCBio functions as the sponsor to the QCBio Collaboratory and the Interdepartmental Graduate Program in Bioinformatics to provide research training, and provides coordination among other quantitative and computational biosciences graduate programs. QCBio Faculty also direct and support the Interdepartmental Undergraduate Programs in Computational & Systems Biology (the CaSB major) and in Bioinformatics (a minor), as well as the freshman mathematics for Life Sciences pre-majors. QCBio organizes the Bruins-in-Genomics (B.I.G.) Summer Undergraduate Research Program. QCBio sponsors the Bioinformatics Seminar series, a weekly Research Lunch, Scientific Workshops and Conferences, Symposia and an Annual Retreat. These activities are supported by Boyer Hall staff.

More information on the QCBio can be found at: http://qcb.ucla.edu.

The QCBio Collaboratory
Matteo Pellegrini, Collaboratory Director

The mission of the QCBio Collaboratory is to provide computational research support to projects initiated by experimentalists. This mission is pursued at three levels: (i) collaborative support or consulting work; (ii) workshops to convey commonly used bioinformatics skills for the analysis of Next Gen Sequencing data; (iii) maintaining software platforms (e.g. Galaxy) that enable multiple types of analyses of next generation sequencing data. These activities are supported by the QCBio Collaboratory postdoctoral fellows, who are selected from a broad applicant pool for renewable annual appointments. QCB Collaboratory workshops also form the basis for graduate courses available to MBI-IDP and other graduate students.

More information on The Collaboratory can be found at: http://qcb.ucla.edu/collaboratory.

UCLA-DOE Institute
Sabeeha Merchant, Director

The UCLA-DOE Institute is a team of research laboratories working on fundamental research and technology developments in broad DOE mission areas ranging from microbes, to biofuels and green chemistry, to the design of new biomaterials. Boyer Hall houses four of the six UCLA-DOE Core Technology Centers:

- **Bioinformatics and Computational Core Technology Center** - Todd Yeates, Director/Duilio Cascio, Manager
  Provides computer hardware and software installation and maintenance for a wide range of office and scientific applications; maintains WWW service for software and database dissemination.

- **Macromolecular Crystallization Core Technology Center** - James Bowie, Director/Michael Collazo, Manager
  The Macromolecular Crystallization Core provides state-of-the-art, high-throughput, and crystallization services to all institutions.

- **Protein Expression Technology Center (PETC)** - James Bowie, Director/Mark Arbing, Manager
  The PETC provides support in all aspects of protein expression from cloning through expression optimization and protein purification.

- **X-ray Crystallography Core Technology Center** - Todd Yeates, Director/ Duilio Cascio, Manager
  The X-ray Crystallography Core provides state-of-the-art resources, enabling the detailed 3-D analysis of biological macromolecules that play essential roles in human health.
More information on the DOE and its Cores can be found at: www.doe-mbi.ucla.edu

**Fermentation Core Facility**
James Bowie, Director / Mark Arbing, Manager

The Fermentation Core Facility is housed on the 1st floor of Boyer Hall. It consists of three Bio Engineering fermenters which allow the large-scale growth of bacteria or yeast using controlled regulation of cell growth, and also has the ability to introduce additional nutrients and/or supplemental oxygen that allow microbial growth to high cell densities.

More information on the Fermentation Core can be found at: www.mbi.ucla.edu/fermentation-core-facility
GRADUATE PROGRAM
Since the program's initiation in 1966-67, a total of 457 individuals have earned their Ph.D. degree in Molecular Biology. During the 2017-18 academic year, there were 130 students in the MBIDP, including 36 admissions, and 11 completing their degree requirements.

The 2017-2018 faculty mentors in the Molecular Biology IDP have primary appointments in the departments of: Anesthesiology; Biological Chemistry; Cardiology; Chemical & Biomolecular Engineering; Chemistry & Biochemistry; Dentistry-Oral Biology; Digestive Diseases; Human Genetics; Microbiology, Immunology & Molecular Genetics; Molecular & Medical Pharmacology; Molecular, Cell & Developmental Biology; Molecular, Cell & Integrative Physiology; Neurobiology; Neurology; Pathology & Laboratory Medicine; Pediatric Genetics; Pediatrics; Psychiatry & Behavioral Science; Radiation Oncology; Surgery and Urology.

Home Areas promote in-depth educational programs while maintaining flexibility for students to explore beyond a single home area and faculty to contribute to multiple home areas according to their research interests. The Molecular Biology IDP consists of four home areas: Cell & Developmental Biology (CDB); Biochemistry, Biophysics, & Structure Biology (BBSB); Gene Regulation, Epigenomics and Transcriptomics (GREAT); and Immunity, Microbes, & Molecular Pathogenesis (IMMP). Each home area has a director that acts as the Graduate Adviser for that area's students.

**MBIDP STUDENTS 2017-18**

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<tr>
<th>Student Name</th>
<th>Mentor</th>
<th>2017-2018 Support</th>
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<td>ADELAJA, ADEWUNMI (MSTP)</td>
<td>Hoffmann, Alexander</td>
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<td>Bowie, James</td>
<td>Teaching Assistantship/Graduate Student Researcher</td>
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<td>VAN LOON, AARON</td>
<td>Sagasti, Alvaro</td>
<td>Graduate Student Researcher</td>
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<td>VAN, CHRISTINA</td>
<td>Waschek, James</td>
<td>Graduate Student Researcher</td>
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<td>VAVILINA, ANASTASIA</td>
<td>Mikkola, Hanna</td>
<td>Teaching Assistantship/Vascular Biology Training Grant/Graduate Student Researcher</td>
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<tr>
<td>VUONG, CELINE KIM</td>
<td>Black, Douglas</td>
<td>Douglas Black Laboratory</td>
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<td>WANG, LULAN</td>
<td>Cheng, Genhong</td>
<td>Graduate Student Researcher</td>
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<td>WATERS, LYNNEA RAE</td>
<td>Teitell, Michael</td>
<td>Graduate Student Researcher</td>
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<tr>
<td>WEISS, DAVID (MSTP)</td>
<td>Modlin, Robert</td>
<td>Graduate Student Researcher</td>
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<td>YANG, EMILY</td>
<td>Li, Melody</td>
<td>GPB/Teaching Assistantship/Graduate Student Researcher</td>
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<tr>
<td>Student Name</td>
<td>Mentor</td>
<td>Dissertation Title</td>
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<tr>
<td>Aschemeyer, Sharraya Lynn</td>
<td>Ganz, Tomas</td>
<td>The mechanism of action and regulation of hepcidin.</td>
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<tr>
<td>Campos, Oscar</td>
<td>Kurdistani, Siavash</td>
<td>The eukaryotic nucleosome regulates copper homeostasis via copper and reduction.</td>
</tr>
<tr>
<td>Flores, Aimee</td>
<td>Lowry, Bill</td>
<td>Investigating the Role of Metabolism in Tissue Homeostasis and Tumor Initiation by Hair Follicle Stem Cells.</td>
</tr>
</tbody>
</table>
Li, Yanjing  Wu, Lily  Targeting CXCR2+ Neuroendocrine-like Cells for the Treatment of Castration-resistant Prostate Cancer.


Neves, Lauren Taylor  Johnson, Tracy  Histone variant H2A.Z coordinates the processes of transcription and pre-mRNA splicing.

Sahakyan, Anna  Plath, Kathrin  Mechanisms of X-chromosome Regulation During Mammalian Development.

Shimada, Eriko Christine  Teitell, Michael  Many Facets of PNpase - Uncovering the Role of PNpase in the Mitochondria.

Vuong, Celine Kim  Black, Douglas  Regulation of Neuronal Excitability by the RNA-Binding Protein Rbfox1.

Young, Brian  Wohlschlegel, James  Identification of a multisubunit E3 ubiquitin ligase required for heterotrimeric G-protein beta-subunit ubiquitination and cAMP signaling.

Young, Courtney  Spencer, Melissa  Development of a Therapeutic CRISPR/Cas9 Platform for Duchenne Muscular Dystrophy.

EXTRAMURAL FELLOWSHIPS & AWARDS

Ruth L. Kirschstein National Research Service Awards

- Demarco, Stephanie
- Emami, Michael
- Gang, Spencer
- Molgora, Brenda
- Loon, Aaron Van

National Science Foundation Graduate Research Fellowships

- Aragon, Raquel
- Castellon, Jose
- Emami, Michael
- Gomez, Adam
- Hernandez, Gloria
- Miranda, Matilde
- Okonkwo, Shawntel
- Thurlow, Lauren
- Tisnado, Jerrell

GRADUATE DIVISION AWARDS

Eugene V. Cota-Robles Fellowships

- Ochoa, Jessica
- Urtecho, Guillaume

Graduate Division Dissertation Year Fellowship Awards

- Tao, Yang
- Waters, Lynnea
- Young, Courtney
- Demarco, Stephanie
MBIDP GRADUATE STUDENT SEMINARS

Modeled after the MBI Interdisciplinary Faculty Seminars, these talks are presented by our graduate students in their third and fifth year within the program. Faculty are not present for the talks, which provides our students with an opportunity to present their research in a relaxed, collegial atmosphere over lunch, and allows for constructive discussion and critique. Some students use this forum as practice for their oral qualifying exam and/or dissertation defense. The seminar series has proven to be a great success due to the format and the enthusiasm of our graduate students.

The seminar presentations during the 2017-2018 Academic Year were:

<table>
<thead>
<tr>
<th>Date</th>
<th>1st Speaker</th>
<th>2nd Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, October 4th</td>
<td>Aimee Flores</td>
<td>Adewunmi Adelaja</td>
</tr>
<tr>
<td></td>
<td>“Investigating the Role of Metabolism in Tissue Homeostasis and Tumor Initiation by Hair Follicle Stem Cells”</td>
<td>“Context-specific Regulation of NFkB Signaling in Primary Macrophages”</td>
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<tr>
<td>Wednesday, October 18th</td>
<td>Calvin Leung</td>
<td>David Weiss</td>
</tr>
<tr>
<td></td>
<td>“A histone modification regulates RNA splicing by unexpected mechanisms”</td>
<td>“The Role of Th17 Cells in Host Defense”</td>
</tr>
<tr>
<td>Wednesday, November 1st</td>
<td>Lulan Wang</td>
<td>Aanand Patel</td>
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<tr>
<td></td>
<td>“Studying the evolution of emerging viruses using genome wide analysis”</td>
<td>“FHOD family formins nucleate actin for cell motility and contractility”</td>
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<tr>
<td>Wednesday, November 15th</td>
<td>Taylor Brown</td>
<td>Wanlu Liu</td>
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<tr>
<td></td>
<td>“Deciphering the interactions between skin-penetrating parasitic nematodes and bacteria”</td>
<td>“Mechanisms of DNA methylation control and epigenome engineering”</td>
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<tr>
<td>Wednesday, November 29th</td>
<td>Jessica Ong</td>
<td>Tian-Hao Zhang</td>
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<tr>
<td></td>
<td>“Diet1 and intestinal homeostasis”</td>
<td>“Effects of Mutations on Replicative Fitness and MHC-I Binding Affinity Are Among the Determinants Underlying Cytotoxic-T-Lymphocyte Escape of HIV-1 Gag Epitopes”</td>
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<tr>
<td>Wednesday, December 13th</td>
<td>Fitz Gerald Diala</td>
<td>Matt Nitzahn</td>
</tr>
<tr>
<td></td>
<td>“Identification and characterization of the protein targets of metronidazole in Trichomonas vaginalis”</td>
<td>“Gene and Cell Therapy Approaches for the Urea Cycle Disorder CPS1 Deficiency”</td>
</tr>
<tr>
<td>Wednesday, January 10th</td>
<td>Christina Van</td>
<td>Yi-Pei Chen</td>
</tr>
<tr>
<td></td>
<td>“Role of PACAP/PAC1 in protecting neurons and modulating inflammation in a model of multiple sclerosis and optic neuritis”</td>
<td>“A Trichomonas vaginalis cadherin-like protein mediates adherence to and killing of host cells”</td>
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<tr>
<td>Wednesday, January 24th</td>
<td>Ying Lin</td>
<td>Charles Choi</td>
</tr>
<tr>
<td></td>
<td>“The development of synaptic specificity in drosophila visual system”</td>
<td>“A photocrosslinkable unnatural amino acid system to study the Toxoplasma gondii inner membrane complex”</td>
</tr>
<tr>
<td>Wednesday, February 7th</td>
<td>Stephanie DeMarco</td>
<td>Patrick Chang</td>
</tr>
<tr>
<td></td>
<td>“Regulation of social motility in the protozoan parasite Trypanosoma brucei”</td>
<td>“Engineering stem cell-derived T cells for immunotherapy”</td>
</tr>
<tr>
<td>Wednesday, February 21st</td>
<td>Courtney Young</td>
<td>Emily Hsu</td>
</tr>
<tr>
<td></td>
<td>“Development of a CRISPR/Cas9 gene editing platform for Duchenne muscular dystrophy”</td>
<td>“Transcriptional activation of early viral genes by adenovirus large E1A via interactions with p300”</td>
</tr>
<tr>
<td>Wednesday, March 7th</td>
<td>Jessica Ochoa</td>
<td></td>
</tr>
<tr>
<td></td>
<td>“Exploiting Microcompartment Shell Proteins to Explore Mechanisms of Subcellular Organization and to Create Novel Materials”</td>
<td></td>
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</tbody>
</table>
### CONFERENCE PARTICIPATION

**Adelaja, Adewunmi**
- Southern California Biomedical Sciences Graduate Symposium; Los Angeles, CA. October 2017.
- APSA West Regional Meeting; Irvine, CA. December 2017.
- AAP/ASCI/APSA Joint Conference; Chicago, IL. April 2018.
- Immunology of Human Disease; Los Angeles, CA. June 2018.
- Immunology LA; Los Angeles, CA. June 2018.

**Aros, Cody**
- Gordon Research Conference on Wnt Signaling; Stowe, VT. August 6-11, 2017.

**Bowler, Jeannette**

**Brown, Taylor**
- WWAMI meeting, Caltech.

**Chai, Min**

**Chang, Patrick**
- La Jolla Immunology; San Diego, CA. October 17-19, 2017.
- Broad Stem Cell Center Symposium; UCLA. February 5, 2018.
- Engineering Immunity; Lake Arrowhead, CA. May 7-8, 2018.
- I3T Retreat; UCLA, Los Angeles, CA. June 12, 2018.
Chen, Yi-Pei
- Molecular Parasitology Meeting; Woods Hole, MA. September 2017.
- American Society for Tropical Medicine Hygiene; Baltimore, MD. November 2017.
- Southern California Eukaryotic Pathogen Symposium; Riverside, CA. December 2017.
- Microbial Pathogenesis Training Grant Trainee Seminars; Los Angeles, CA. May 2018.

Cheng, Quen
- Keystone Conference on Myeloid Cells; Breckenridge, CO. April 2018.

Chi, Fangtao

Crowell, Preston

Demarco, Stephanie
- Southern California Eukaryotic Pathogens Symposium; UC Riverside, CA. December 6, 2017.

Deng, William (Weixian)
- American Society of Mass Spectrometry Annual Conference; San Diego, CA; June 2-5, 2018.

Diala, Fitz Gerald (MSTP)
- 2018 Student National Medical Association (SNMA) Annual Medical Education Conference (AMEC); San Francisco, CA. March 29-April 1, 2018.
- 2018 American Society for Microbiology (ASM) Microbe Conference; Atlanta, GA. June 7-10, 2018.

Do, Tran (MSTP)

Edwards, Samantha

Emami, Michael
- Annual Biomedical Conference for Minority Students (ABRMCS); Phoenix, AZ. November 1-4, 2017.

Fan, Xiaorui
- American Society for Mass Spectrometry Annual Conference; San Diego, CA.

Feng, An-Chieh (Angela)
- AAI Immunology Advanced Training Course 2018; Boston, MA. July 22-27, 2018.

Gang, Spencer

Golden, Lisa
- ACTRIMS; San Diego, CA. February 1-3, 2018.
Gray, David
- Annual Meeting of the American Society for Gene and Cell Therapy; Chicago, IL.
- Genome Engineering: The CRISPR-Cas Revolution; Cold Spring Harbor Laboratory, Long Island, NY.

Hancock, Grace
- From Stem Cells to Human Development; Surrey, UK. September 23-26, 2018.

Ho, Chi-Min

Hsu, Emily
- DNA Tumor Virus Meeting; Birmingham, UK. July 17-22, 2017.

Hu, Xuchen (MSTP)
- Deuel Conference on Lipids; March 2018.

Jones, Eric
- GPCR Workshop; Kona, HI. December 5-9, 2017.
- Protein Society Annual Meeting; Boston, MA. July 9-12, 2018

Kronenberg, Michael

Lee, Ha Neul (Skott)
- MBIDP Retreat; Ventura, CA. April 2018.

Lee, Josh Zixi
- Cold Spring Harbor Asia: Stem Cell Crossroads; Suzhou, China. May 7-10.

Leung, Calvin
- ASBMB Annual Meeting; Chicago.

Liu, Wanlu
- HHMI Science meeting; Chevy Chase, Maryland. March 2018.

Lo, Hung-Hao
- I3T Retreat; Los Angeles, CA. June 12, 2018.

Lopez, Andrew

Lowe, Matthew
- Stem Cell Symposium; UCLA. February 2, 2018.
- MWRI; Pittsburgh, PA. April 3-4, 2018.

Masiuk, Katelyn (MSTP)
- American Society of Hematology; San Diego, CA. December 2017
• American Society of Gene and Cell Therapy; Washington DC. May 2018.

Molgora, Brenda
• Southern California Eukaryotic Pathogen Symposium; Riverside, CA. December 6, 2017
• American Society for Microbiology (ASM) Microbe Conference; Atlanta, GA. June 7-11, 2018.

Murray, Kevin (MSTP)
• RosettaCon; Seattle, WA. July 2017.

Nitzahn, Matthew

Patel, Aanand (MSTP)
• Biophysical Society Annual Meeting; San Francisco, CA. February 17-21, 2018.

Salisbury, David (Alex)

Sercel, Alexander
• Cell Symposia Multifaceted Mitochondria; Paradise Point, San Diego, CA. June 4-6, 2018.

Shu, Cynthia

Tan, Yin Xuan (Shawn)
• 14th Annual Stem Cell Conference (UCLA)

Thurlow, Lauren
• 2017 SACNAS National Conference; Salt Lake City, UT. October 18-21, 2017.
• UCLA Molecular, Cell and Developmental Biology Research Conference; Lake Arrowhead, CA. December 1-3, 2017.
• 23rd Annual Meeting of the RNA Society; Berkeley, CA. May 29-June 3, 2018.

Urtecho, Guillaume
• Marine Biological Laboratory Advanced Research Course - Microbial Diversity; Woods Hole, MA. July 7-August 23.

Valliere, Meaghan
• BASF Research Forum at the end of August

Van Loon, Aaron
• International Zebrafish Conference; University of Wisconsin, Madison, WI. June 20-24, 2018.

Van, Christina
• Moving Targets Symposium; USC, Los Angeles, CA. August 17, 2017.
• 13th International Symposium on PACAP, VIP, and Related Peptides; Hong Kong, China. December 5, 2017.
• Inaugural I3T Scientific Retreat; UCLA, Los Angeles, CA. June 12, 2018.

Wang, Lulan
• Immunology LA; Skirball Center. June 15, 2018.

Waters, Lynnea
• La Jolla Immunology Conference; La Jolla, CA. October 2017.

Young, Courtney
• PPMD Connect Conference; Chicago, IL. June 29-July 1, 2017.

Yu, Jiaji
• Immunology LA; Los Angeles, CA.
• 14th Annual Stem Cell Symposium; UCLA.

Zemke, Nathan
• DNA Tumor Virus Meeting; University of Birmingham, UK. July 17-22, 2017.

Zhan, Lingyu
• Symposium of Frontiers and Careers in cryoEM; CNSI, UCLA. April 27-28, 2018.
• Southern California Society for Microscopy and Microanalysis (SCSMM spring meeting); Michelson Center for Convergent Bioscience at USC. April 13, 2018.

Zhang, Tianhao
• Palm Spring HIV/AIDS annual symposium; Palm Springs, CA. March 2018.

**STUDENT PUBLICATIONS**

Aragon, Raquel

Brown, Taylor

Chen, Yi-Pei

Chi, Fangtao

Chitiashvili, Tsotne

Feng, An-Chieh

Gang, Spencer

Gomez, Adam

Gray, David

Hancock, Grace

Hernandez, Gloria

Hu, Xuchen


Korsakova, Elena


Lee, Han Neul (Skott)


Lo, Hung-Hao (Jerry)

Lowe Matthew

Masiuk, Katelyn

Miranda, Matilde

Molgora, Brenda

Murray, Kevin
- Atomic structures of corkscrew-forming segments of SOD1 reveal varied oligomer conformations. Sangwan S, Sawaya MR, Murray KA, Hughes MP, Eisenberg DS. Protein Sci. 2018

Nitzahn, Matthew

Ong, Jessica
Patel, Aanand

Pronovost, Geoffrey

Salisbury, David (Alex)

Sandhu, Jaspreet

Sercel, Alexander

Thurlow, Lauren

van Loon, Aaron

Young, Courtney
Zemke, Nathan


Zhang, Jiayan

- Monomeric ephrinB2 binding induces allosteric changes in Nipah virus G that precede its full activation JJW Wong, TA Young, J Zhang, S Liu, GP Leser, EA Komives, RA Lamb; Nature Communications 8(1), 781.

Zhang, Tian-Hao


Zhang, Yurun


**WHITCOME PRE-DOCTORAL TRAINING PROGRAM**

The Whitcome Pre-doctoral Training Program supports students with a MB-IDP mentor in their 3rd, 4th or 5th year of graduate school. Trainees are eligible for one year of support with possibility for competitive renewal. There are no citizenship restrictions for this program; international students are welcome to apply. The program is competitive and merit based.

Congratulations to the following graduate students, who were selected for the Whitcome Training Program this year:

<table>
<thead>
<tr>
<th>Name</th>
<th>Graduate Program</th>
<th>Mentor</th>
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<tr>
<td>Natalie Chen</td>
<td>Molecular, Cellular &amp; Integrative Physiology</td>
<td>Stephen Young</td>
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<tr>
<td>Charles Choi</td>
<td>MBIDP (Immunity, Microbes and Molecular Pathogenesis)</td>
<td>Peter Bradley</td>
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<tr>
<td>Ha Neul Lee</td>
<td>MBIDP (Cell and Developmental Biology)</td>
<td>Hilary Coller</td>
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<tr>
<td>Han Young Lim</td>
<td>MBIDP (Biochemistry, Biophysics, and Structural Biology)</td>
<td>Douglas Black</td>
</tr>
<tr>
<td>Calvin Leung</td>
<td>MBIDP (Biochemistry, Biophysics, and Structural Biology)</td>
<td>Tracy Johnson</td>
</tr>
<tr>
<td>Wanlu Liu</td>
<td>MBIDP (Cell and Developmental Biology)</td>
<td>Steve Jacobsen</td>
</tr>
<tr>
<td>Jerry Lo</td>
<td>MBIDP (Immunity, Microbes and Molecular Pathogenesis)</td>
<td>Stephen Smale</td>
</tr>
<tr>
<td>Name</td>
<td>Program</td>
<td>Advisor</td>
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<td>Katelyn Masiuk (MSTP)</td>
<td>MBIDP (Immunity, Microbes and Molecular Pathogenesis)</td>
<td>Donald Kohn</td>
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<tr>
<td>Thang Nguyen</td>
<td>Bioengineering</td>
<td>Michael Teitell</td>
</tr>
<tr>
<td>Jessica Ong (MSTP)</td>
<td>MBIDP (Cell and Developmental Biology)</td>
<td>Karen Reue</td>
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<tr>
<td>Jaspreet Sandhu (MSTP)</td>
<td>MBIDP (Gene Regulation, Epigenomics and Transcriptomics)</td>
<td>Peter Tontonoz</td>
</tr>
<tr>
<td>Hannah Sunshine</td>
<td>Molecular, Cellular &amp; Integrative Physiology</td>
<td>Luisa Iruela-Arispe</td>
</tr>
</tbody>
</table>
MEMBER PUBLICATIONS
Adams, J.


Allard, P.


Ardehali, R.


Banerjee, U.

Berk, A.


Bitan, G.

- NXu, GBitan, TSchrader, FG Klärner, HOsinska, and J Robbins., “Inhibition of mutant αB Crystallin-Induced Protein Aggregation by a Molecular Tweezer.” J. Am. Heart Assoc. 2017.


Black, D.


Bowie, J.


• Woodall NB, Hadley S, Yin Y, Bowie JU, “Complete Topology Inversion can be Part of Normal Membrane Protein Biogenesis” Protein Sci. 4:824-833. 2017.

Braun, J.


Braybrook, S.


- F Bou Daher, Y Chen, B Bozorg, J Clough, H Jonsson, SA Braybrook., “Anisotropic growth is achieved through the additive mechanical effect of material anisotropy and elastic asymmetry.” 2018.

Butler, S.


Butte, M.


Carey, M.


Chen, J.


Chen, I.


Chow, S.


Clarke, S.


Clarke, C.


Clubb, R.


**Coller, H.**


**De Robertis, E.**


Eisenberg, D.


- Elizabeth L. Guenther, Qin Cao, Hamilton Trinh, Jiahui Lu, Michael R. Sawaya, Duilio Cascio, David R. Boyer, Jose A. Rodriguez, Michael P. Hughes, and David S. Eisenberg, "Atomic structures of TDP-43 LCD segments and insights into reversible or pathogenic aggregation” NSMB, 25: 463-471. 2018.


**Ernst, J.**


**Faull, K.**


**Gelbart, W.**


Gera, J.


Goldstein, A.


Gonen, T.


• a J., Lei H and Gonen T*, “A conformational change in the N-terminus of SLC38A9 signals mTORC1 activation.” 2018.


• Liu S. and Gonen T*, “Na+ partition into the selectivity filter of a tetrameric ion channel”. Communications Biology 1: 38. 2018.


Gunsalus, R.


Guo, F.


Guo, M.


Gwack, Y.


Hallem, E.


Harran, P.


Hartenstein, V.


• Hartenstein, V, Giangrande A., “Connecting the nervous and the immune systems in evolution” Comm Biology 1, Article number: 64. 2018.

• Del Mar De Miguel-Bonet M, Ahad S, Hartenstein V., “Role of neoblasts in the patterned postembryonic growth of the platyhelminth Macrostomum lignano” Neurogenesis Pages e1469944-1 e1469944-9 posted online: 30 Apr 2018, Published online: 19 Jul 2018.

• Hartenstein V., “Development of the Nervous System of Invertebrates” In: (Byrne JH, ed.) The Oxford Handbook of Invertebrate Neurobiology. Published online: June 2018.

Hevener, A.


Hill, K.


Hirsch, A.


- Galaviz C, Lopez BR, de-Bashan LE, Hirsch AM, Maymon M, Bashan Y., “Root growth improvement of mesquite seedlings and bacterial rhizosphere and soil community changes are induced by inoculation with plant growth-promoting bacteria and promote restoration of eroded desert soil” Land Degrad. Dev. 2018.


Hoffmann, A.


Houk, K.


• Chao Zhou, Juan Liang, Shangli Cheng, Ting Shi, K. N. Houk, Dong-Qing Wei, and Yi-Lei Zhao: "Ab initio Molecular Metadynamics Simulation for S-nitroxylation by Nitric Oxide: S-nitroxide as they Key Intermediate," Molecular Simulation, 43, 1134-1141. 2017.


• Maruthi Kumar Narayanan, Gaoyuan Ma, Pier Alexandre Champagne, Kendall N. Houk, and Jennifer M. Murphy: "Nucleophilic 18F-Fluorination of Anilines via N-Arylsydnone Intermediates," Synlett, 29, 1131-1135. 2018.

Iruela, L.


Jacobsen, S.


Johnson, R.


Johnson, T.


Kaback, H.R.


Kaufman, D.


Kohn, D.


Kurdistani, S.


Li, M.


Lin, C.


Lipshutz, G.


Loo, J.


Lusis, A.J.


Morrison, S.


Nakano, A.


Novitch, B.


O’Sullivan, T.


Pellegrini, M.


Plath, K.


**Pyle, A.**


**Quinlan, M.**


**Reddy, S.**


**Reisler, E.**


**Reue, K.**


**Rodriguez, J.**


Sallam, T.


Schopf, J.W.


Schweizer, F.

Smale, S.


Soragni, A.


Spencer, M.


Sun, R.


Tang, Y.


- Walsh, C. T. †, Tang, Y. † "Recent Advances in Enzymatic Complexity Generation: Cyclization Reactions." Accepted for publication at Biochemistry. 2018.

- Walsh, C. T. †, Tu, B. P. †, Tang, Y. † “Eight Kinetically Stable but Thermodynamically Activated Molecules that Power Cell Metabolism.” Accepted for publication at Chem. Rev. 2018.


**Tarling, E.**


• Tumurkhuu et al., “Chlamydia pneumonia Hijacks a Host Autoregulatory IL-1β Loop to Drive Foam Cell Formation and Accelerate Atherosclerosis” Cell Metab. 2018.

**Teitell, M.**


**Tetradis, S.**


**Tontonoz, P.**


**Torres, J.**


**Wang, Y.**


**Weiss, S.**


**Whitelegge, J.**


**Williams, D.**


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