

August 17, 2023

To: Jane C. Conoley, President  
Karyn Scissum Gunn, Provost and Senior Vice President, Academic Affairs  
Scott Apel, Vice President, Administration and Finance  
Beth Lesen, Vice President, Student Affairs  
Dan Montoya, Vice President, University Relations and Development  
Min Yao, Vice President, Chief Information Officer  
Brian Nowlin, Chief Operating Officer, Research Foundation  
Royce W. Smith, Dean, College of the Arts  
Michael E. Solt, Dean, College of Business  
Anna Ortiz, Dean, College of Education  
Jinny Rhee, Dean, College of Engineering  
Monica Lounsbury, Dean, College of Health and Human Services  
Deborah Thien, Dean, College of Liberal Arts  
Curtis Bennett, Dean, College of Natural Sciences and Mathematics  
Chris Swarat, Dean, College of Professional and Continuing Education  
Elizabeth Dill, Dean, University Library

From: Simon Kim, Associate Vice President  
Office of Research and Economic Development (ORED)

RE: FY 2022-2023 Year-End Report

I am delighted to present the FY 2022-2023 Year-End Report for Sponsored Programs, Research Compliance, Undergraduate Research, and Innovation. This report underscores the Office of Research and Economic Development's (ORED) impactful role in fostering faculty-student research engagement, ensuring regulatory compliance, and supporting innovation. Through collaborative efforts, ORED has propelled research, innovation, and compliance standards at CSULB. We look forward to continued collaboration and the pursuit of excellence in research.

## I. Proposal Preparation and Submission

Our commitment to advancing research endeavors is evident in the numbers we have achieved. A total of 206 faculty, staff, and administrators submitted 295 new proposals, collectively amounting to \$129.6 million. Amid the challenges posed by the COVID-19 pandemic, the Pre-Award team seamlessly transitioned services to an electronic platform, enhancing efficiency and convenience.

Division/College	2023 Total New Proposals Submitted	2023 Total New Research Funds Requested	2022 Total New Proposals Submitted	2022 Total New Research Funds Requested	Total Proposals Submitted (% Change)	Total Research Funds Requested (% Change)
COB	2	\$ 48,000	6	\$ 506,081	-66.67	-90.52
CPaCE/CITT	13	\$ 3,585,998	11	\$ 1,105,368	18.18	224.42
CED	13	\$ 16,194,488	15	\$ 11,599,187	-13.33	39.62
CHHS	64	\$ 39,666,968	62	\$ 41,723,735	3.23	-4.93
CLA	53	\$ 7,257,208	57	\$ 5,636,881	-7.02	28.75
CNSM	48	\$ 29,193,321	48	\$ 19,546,494	0.00	49.35
COE	77	\$ 25,243,714	57	\$ 12,647,019	35.09	99.60
COTA	9	\$ 341,240	6	\$ 335,000	50.00	1.86
Other Units (Pres, AA, SS, URD)	16	\$ 8,084,441	18	\$ 10,914,448	-11.11	-25.93
<b>TOTAL</b>	<b>295</b>	<b>\$ 129,615,378</b>	<b>280</b>	<b>\$ 104,014,213</b>	<b>5.36</b>	<b>24.61</b>

## II. New Awards

Celebrating our accomplishments, we are thrilled to report that 110 Principal Investigators secured 176 new external awards totaling approximately \$48.5 million. Collaborations spanned 81 federal, 45 state, and 10 local agencies, alongside 40 private corporations and foundations. This impressive achievement underscores our commitment to impactful research and partnership engagement.

Division/College	2023 Total New Proposals Awarded	2023 Total New Research Funds Awarded	2022 Total New Proposals Awarded	2022 Total New Research Funds Awarded	Total Proposals Awarded (% Change)	Total Research Funds Awarded (% Change)
COB	3	\$ 61,500	2	\$ 35,500	50.00	73.24
CPIE/CITT	7	\$ 910,640	12	\$ 1,626,728	-41.67	-44.02
CED	10	\$ 7,225,261	7	\$ 4,873,859	42.86	48.25
CHHS	39	\$ 14,884,126	41	\$ 19,816,774	-4.88	-24.89
CLA	29	\$ 3,721,419	29	\$ 3,999,564	0.00	-6.95
CNSM	32	\$ 4,049,352	38	\$ 11,802,763	-15.79	-65.69
COE	30	\$ 7,139,144	30	\$ 3,708,449	0.00	92.51
COTA	4	\$ 49,524	8	\$ 53,400	-50.00	-7.26
Other Units (Pres, AA, SS, URD, AF, IT)	22	\$ 10,461,067	19	\$ 19,860,367	15.79	-47.33
<b>TOTAL</b>	<b>176</b>	<b>\$ 48,502,033</b>	<b>186</b>	<b>\$ 65,777,404</b>	<b>-5.38</b>	<b>-26.26</b>

### III. Research Expenditures

We are particularly proud of achieving a milestone in research expenditures. With research endeavors generating nearly \$40 million in total expenditures, consisting of \$34.5 million direct and \$5.3 million indirect expenditures, we set a record high. Post-award activities, encompassing award management, compliance, and financial reporting, have been efficiently executed in an online format. The Post-Award team's adeptness in adapting to changing circumstances during the pandemic ensured uninterrupted support for Principal Investigators.

Division/College	2023 Research Expenditures	2023 F&A Revenue	2023 Effective F&A Rate	2022 Research Expenditures	2022 F&A Revenue	2022 Effective F&A Rate	Total Research Expenditures (% Change)	Total F&A Revenue (% Change)	Total Effective F&A Rate (% Change)
COB	\$ 30,377.31	\$ 8,663.19	28.5%	\$ 25,373.28	\$ 10,327.34	40.7%	19.72	-16.11	-29.93
CPIC/CITT	\$ 679,756.83	\$ 136,363.89	20.1%	\$ 870,406.35	\$ 228,040.98	26.2%	-21.90	-40.20	-23.43
CED	\$ 3,543,519.23	\$ 260,200.03	7.3%	\$ 3,053,281.50	\$ 115,862.57	3.8%	16.06	124.58	93.51
CHHS	\$11,334,186.04	\$ 1,616,631.89	14.3%	\$ 8,926,865.81	\$ 1,121,014.02	12.6%	26.97	44.21	13.58
CLA	\$ 2,181,687.55	\$ 417,471.00	19.1%	\$ 1,339,880.42	\$ 334,712.00	25.0%	62.83	24.73	-23.40
CNSM	\$ 5,371,101.71	\$ 1,078,704.86	20.1%	\$ 4,381,064.58	\$ 912,573.29	20.8%	22.60	18.20	-3.58
COE	\$ 2,496,020.76	\$ 558,733.76	22.4%	\$ 3,067,802.74	\$ 544,539.27	17.8%	-18.64	2.61	26.11
COTA	\$ 82,296.76	\$ 4,127.23	5.0%	\$ 69,279.44	\$ (0.74)	0.0%	18.79	-557833.78	-469614.04
Other Units (Pres, AA, SS, URD, AF, IT)	\$ 8,759,519.91	\$ 1,263,974.65	14.4%	\$ 7,714,655.83	\$ 1,142,105.18	14.8%	13.54	10.67	-2.53
<b>TOTAL</b>	<b>\$34,478,466.10</b>	<b>\$ 5,344,870.50</b>	<b>15.5%</b>	<b>\$ 29,448,609.95</b>	<b>\$ 4,409,173.91</b>	<b>15.0%</b>	<b>17.08</b>	<b>21.22</b>	<b>3.54</b>

### IV. Internal Research Funding

In nurturing our research ecosystem, significant investments have been made to invigorate Research, Scholarly, and Creative Activity (RSCA). Allocations of approximately \$1.7 million were directed to colleges, with additional funding of \$500,000 from the Chancellor's Office, Office of Research and Economic Development, and Academic Affairs. Furthermore, we recognize the growing significance of open-access (OA) publishing, which has been embraced by a growing number of faculty. We have allocated funds to support OA publications by CSULB faculty, fostering accessibility and enhancing our institution's prominence. The President – Provost Initiative, Faculty Research Awards in Equity, Diversity, and Inclusion (FRA-EDI) focusing on Racial Equity has been extended for a second year, underscoring our dedication to addressing important societal issues.

### V. Grant Development

To enhance the competitiveness of grant applications, we have strategically integrated diverse resources to support our esteemed faculty and staff members throughout the grant proposal submission process. This multifaceted approach is integral to our mission of facilitating impactful research endeavors. One cornerstone of our approach involves the dedicated presence

of a Grant Development Specialist. This expert professional plays a pivotal role in comprehensively interpreting grant solicitations, offering insightful narrative feedback, managing the grant development Canvas site, and orchestrating professional development training. Collaborating closely with program officers from a spectrum of funding agencies, the Specialist organizes workshops, fostering invaluable insights and connections for our faculty and staff.

In the fiscal year 2022-2023, this concerted effort culminated in providing solicitation review and narrative feedback to over 60 faculty and staff members. Furthermore, we facilitated six impactful professional development opportunities, each tailored to enrich diverse aspects of grant development:

- **New Faculty Orientation:** A primer on ORED's roles and functions, acquainting new faculty with our collaborative environment.
- **CSUPERB Executive Director Workshop:** A specialized workshop amplifying engagement with the California State University Program for Education and Research in Biotechnology.
- **SPIN Funding Opportunity Database Online Training:** An empowering session enabling efficient navigation of the SPIN funding opportunity database.
- **National Endowment for the Humanities Online Workshop:** A focused endeavor imparting insights into grant opportunities within the humanities realm.
- **Pre-Award Townhall Online Training:** An informative session fostering awareness of pre-award intricacies.
- **Faculty Center Trainings:** A triad of enriching workshops providing an encompassing overview of the grant process.

As we envision an escalated demand for these indispensable grant development resources, our commitment remains steadfast. We are actively considering future expansion opportunities within this departmental domain, ensuring our continuous capacity to elevate the research pursuits of our community.

## **VI. Research Compliance: Elevating Excellence and Regulatory Adherence**

Our steadfast commitment to enhancing research compliance programs at CSULB has led to a series of progressive initiatives aimed at ensuring ethical standards, meticulous adherence to regulations, and the seamless coordination of compliance activities. Below, we outline key advancements that have shaped our research compliance landscape:

- **Responsible Conduct of Research (RCR) Training Enhancement:** A central facet of our compliance strategy is the meticulous refinement of the RCR training program. This encompassed the establishment of a centralized online course management platform titled the RCR Course. Over the FY 2022-2023, a total of 19 RCR workshops were conducted.

A hybrid approach, consisting of 15 sessions via Zoom and 4 in-person sessions, including 8 evening workshops, was adopted to maximize attendance and accommodate diverse schedules.

- **Registration Compliance and Policy Development:** We maintained a proactive stance towards regulatory registrations. This included the refinement of registrations with federal agencies, encompassing FWA/IRB registration with HHS-OHRP, IBC registration with NIH-IBC-RMS, IACUC Annual Reports to NIH-OLAW and USDA-APHIS, and the Annual Report on Possible Research Misconduct to HHS-ORI. Furthermore, the formulation and approval of the Export Control Policy, in collaboration with the Academic Senate and the President, underscored our dedication to comprehensive compliance.
- **Responsive Animal Care Transition:** A seamless transition in the face of unexpected challenges was evident when the attending veterinarian position experienced a transition. Quick response measures ensured the prompt recruitment of a new attending veterinarian in March 2023, ensuring the uninterrupted welfare of animals and the unimpeded progression of research projects.
- **Exemplary Compliance Reviews:** We conducted rigorous compliance reviews of approximately 350 grant/contract applications. Emphasizing Responsible Conduct of Research (RCR) training and Financial Conflict of Interest (FCOI) disclosures, we ensured that all necessary approvals from IACUC and IRB were secured before commencing research involving live animals or human subjects. In parallel, a comprehensive review of 15 Material Transfer Agreements and 5 Non-disclosure/Data sharing Agreements bolstered inter-institutional collaborations.
- **Innovative Collaboration and Communication:** We solidified collaboration with the Academic Senate, completing 5-year continuation reviews for five centers and institutes, and collecting Annual Reports from 23 ACIs. Embracing a responsive approach to human resource dynamics, we successfully recruited a Senior Research Compliance Specialist, two Research Compliance Specialists, and two Federal Work-study Student Assistants. Their hands-on, cross-functional training and streamlined workflow optimization bolstered the quality of services offered. Despite budgetary constraints, support was provided for staff to participate in training conferences, including the 2022 PRIM&R Conference and the 2023 CSULB IRB Forum.
- **Extended Influence and Engagement:** Our proactive engagement extended beyond the institution. We continued to foster knowledge exchange and best practices by serving as an ARIO Communication Committee member. Additionally, we assumed the role of Secretary at the CSU System IRB Consortium, further amplifying our influence in the research compliance domain.
- **Enhancing Operational Efficacy:** The implementation of the IRBManager platform to manage Institutional Biosafety Committee (IBC) operations marked a pivotal enhancement in operational efficiency.

- **Strengthening Ethical Oversight:** The Institutional Review Board (IRB) diligently reviewed 533 protocol submissions, comprising 280 new protocols, 52 renewals/Continuing Reviews/Annual Check-Ins, and 201 modification requests. Through meticulous classification, including Full Board Review, Expedited Review, Exempt Determination, Administrative Review, and Non-Human Subject Research determinations, we ensured rigorous oversight across varied research categories.
- **Inter-Institutional Collaboration Facilitation:** We facilitated 15 IRB Review Reliance Agreements to foster seamless inter-institutional collaborations in human subject research.
- **Comprehensive IRB Review and Evaluation:** An in-depth self-study and external review facilitated an informed evaluation of IRB operations. By convening with University and IRB stakeholders, commendations, challenges, and recommendations were shared. Resulting from this, a Memorandum of Understanding was meticulously crafted, accompanied by an action plan addressing key issues.
- **Empowering Compliance through Transparency:** We heightened transparency through updated policies, guidance, and accessible resources. A responsive approach to COVID-19-related challenges was evident through immediate policy updates and guidance development.

## VII. Innovation and Economic Development

We are establishing a robust infrastructure to facilitate collaboration with industries and accelerate the journey from laboratory innovation to market success. Through updated policies, we are securing title and ownership of intellectual property arising from sponsored research, effectively evaluating its commercial potential, and ensuring its protection and commercialization. This benefits faculty, students, and staff while ensuring compliance with federal regulations.

We are facilitating international collaborations involving controlled technologies by implementing the new Export Control policy that was successfully approved and passed by the Academic Senate and concurred by the President to clear the audit finding from the Chancellor's Office while improving compliance with federal regulations.

We are also cultivating partnerships with investors, entrepreneurs, industries, and government agencies, both locally and nationally. This comprehensive approach, supported by the Institute of Innovation and Entrepreneurship and Long Beach Accelerator, forms a regional innovation ecosystem. By synergizing resources, we are driving swift transformation of ideas into tangible outcomes, including new products, services, startups, and employment opportunities. This strategy enhances economic growth and underscores our commitment to innovation's role in advancing society.

## VIII. Undergraduate Research

The Office of Undergraduate Research Services (OURS) is committed to providing inclusive opportunities for all undergraduate students who wish to engage in undergraduate research opportunity experiences throughout their educational journey at CSULB. The growth and expansion of OURS are the results of deliberate and strategic initiatives focused on outreach and collaboration with various undergraduate research programs and partners. Below we outline different key collaborations with campus partners that have been instrumental in expanding OURS:

- **Faculty Mentor Director:** The directory offers a campus-wide searchable database of faculty mentors who actively engage and collaborate with students across different undergraduate research programs on campus.
- **OURS Research Certificate:** In partnership with BUILD, the OURS Research Certificate Program is an option within the OURS Connects program that provides students with an additional curriculum that is typically available to only students who participate in externally funded research programs. The certificate requirements are thoughtfully designed to minimize the impact on students' graduation timelines.
- **Information Sessions:** The OURS office leads the efforts in bringing together all other undergraduate research programs/opportunities twice a year. At the beginning of each fall and spring semester, OURS holds two information sessions where Directors, Program Coordinators, and/or PIs come together to share information about the different undergraduate research experiences available to current and future CSULB students. The third session hosts an Alumni Panel, featuring former participants from various undergraduate research programs. These alumni share their personal journeys within their undergraduate research experiences (UREs), illustrating the pivotal role UREs played in shaping their educational pathway, careers, and pursuits graduate education.
- **Student Research Competition (SRC):** In collaboration with the Graduate Center, OURS leads the Student Research Competition. The event serves as a platform to showcase excellence in scholarly research and creative activities conducted by both undergraduate and graduate students at CSULB.
- **Week of Research, Scholarly and Creative Activity (RSCA):** This event is centered around celebrating the exceptional work taking place across the CSULB campus, involving students, staff, and faculty. The aim is to foster engagement throughout the campus environment by encouraging individuals to attend events outside their disciplines.

## IX. Objectives for FY 2023-2024: Propelling Research Excellence and Innovation

As we embark on the new fiscal year, we are committed to steadfastly advancing our research landscape and fostering a thriving ecosystem that aligns with the BEACH 2030 Strategic

Priorities. Our goals are ambitiously anchored in elevating research, innovation, and problem-solving in response to the formidable societal challenges we face. With collaborative partnerships at the forefront, we aspire to enact transformative change through the following strategic objectives:

- **Cultivating an Enabling Research Environment:** Our primary objective is to cultivate a campus environment that serves as a dynamic catalyst for research and creative pursuits. By embracing BEACH 2030 Strategic Priorities, we will work diligently to create an environment that nurtures innovation and empowers researchers to achieve their fullest potential.
- **Leadership in Grand Challenge Solutions:** As we navigate complex global challenges, collaborative partnerships are paramount. We aim to lead the charge in addressing these grand challenges by fostering interdisciplinary collaborations that propel research, innovation, and problem-solving towards impactful solutions.
- **Strategic Research Prioritization and Funding Advocacy:** Identifying research priorities that resonate with our campus ethos is integral to our mission. In synergy with this, we will proactively identify pertinent funding opportunities and empower our esteemed faculty to pursue external funding, thereby bolstering Research, Scholarly, and Creative Activity (RSCA) efforts.
- **Dynamic Administrative Streamlining:** In a constantly evolving landscape marked by the COVID-19 pandemic, our commitment to administrative efficiency remains unwavering. We will persistently innovate and adapt, ensuring compliance with federal research regulations through agile strategies that surmount the ongoing challenges.
- **Intellectual Property Innovation Partnerships:** Our vision encompasses an infrastructure that propels the commercial development of innovation from lab to market via licensing of intellectual property to industry partners and newly formed startups, opening new avenues for external revenue streams that augment research, scholarly, and creative endeavors. Through strategic partnerships and effective mechanisms, we aspire to drive innovation to tangible societal impact.

These objectives embody our commitment to elevating research, innovation, and creative endeavors at CSULB. Guided by collaboration, innovation, and a relentless pursuit of excellence, we are poised to embrace the coming year with vigor and dedication.