

UNIVERSITY OF HAWAI‘I SYSTEM ANNUAL REPORT



REPORT TO THE 2022 LEGISLATURE

Annual Report on the
Research and Training Revolving Fund

HRS 304A-2253

December 2021

ANNUAL REPORT ON THE RESEARCH AND TRAINING REVOLVING FUND 2020-2021

INTRODUCTION

The Research and Training Revolving Fund continues to be very effective in stimulating research, which results in extramural contracts and grants. This report summarizes the investments of the Fund for 2020-2021 and indicates the effectiveness of this support. Procedures for awarding grants from the Fund were the same as in previous years.

The Governor's approved guidelines for the administration and investments of the Fund:

1. The funds were administered by the Vice President for Research & Innovation (VPRI), the UH Mānoa Vice Chancellor for Research (VCR), and the University Research Council within the general guidelines approved by the University President.
2. The funds were administered in the four categories described under Part I – Fund Investments.

FUND INVESTMENTS

Pursuant to HRS Section 304A-2253, \$51,697,507.91 was deposited into the Research and Training Revolving Fund and invested as follows:

1. Scholarly Development Fund

The Scholarly Development Fund serves two purposes. The first is to provide seed money support to develop research projects or training programs for extramural funding. The second is to provide travel funds for University professionals that enable them to communicate research and new ideas at international, national or regional meetings, and to permit contact with extramural funding agencies.

NOTE: Due to COVID-19 pandemic, travel was restricted for FY 2021.

Investments

A total of \$1,335 was invested in Professional Travel by the UH Mānoa VCR distributed as follows:

The Council reviewed 5 travel requests and made 5 awards totaling \$1,335. Table 1 lists the Professional Travel recipients.

A total of \$6,357 was invested in Professional Travel for UH West O'ahu and was distributed as follows:

The Council reviewed 22 travel requests and made 20 awards totaling \$6,357. Table 2 lists the Professional Travel recipients.

Investments for 2020-2021: \$7,692

2. Facilitating Services Fund

The Facilitating Services Fund is used to support the research, instruction and public service missions of the University units that generated overhead revenue.

The fund is invested in proportion to the overhead revenue generated by each of the units.

Effective FY 1999, the Deans and Directors of the units were granted the authority to expend these funds at their own discretion.

Investments

A total of \$34,989,965 was invested in the fund. Table 3 lists the distribution by unit.

Investments for 2020-2021: \$34,989,965

3. Project Development Fund

The Project Development Fund is used to facilitate research and training in new or developing fields, provide matching funds for the acquisition of research equipment, and to promote participation in professional organizations.

Investments

The UH Mānoa VCR made 66 awards totaling \$5,208,626.69. Table 4 lists the Project Development Fund recipients.

\$0 was invested in the Student Excellence in Research Awards by the UH Mānoa VCR. For FY 2021, other sources of funds were used for the awards.. Table 5 lists the Student Excellence in Research Awards recipients.

Investments for 2020-2021: \$5,208,626.

4. Vice President for Research and Innovation Investments:

A total of \$11,996,360 was invested for research support and services, including \$6,143,079 paid to RCUH for procurement and HR services for the University's extramural funds.

| <u>Description</u> | <u>FY 2021</u> |
|----------------------------------------------|-------------------|
| RCUH Management Fees | 6,143,079 |
| A-133 Audit | 343,965 |
| Office of the VP for Research and Innovation | 1,758,867 |
| Office of Research Services | 1,630,837 |
| Office of Innovation and Commercialization | 952,152 |
| Office of Research Compliance | 1,137,461 |
| TOTAL | 11,966,360 |

The VPRI made 12 awards totaling \$2,541,381.42 in support of programs summarized in Table 6.

Investments for 2020-2021: \$14,507,741

5. Summary of Investments

| | Allocation | Carry Forwards / | | Total Available | Expenditures | Committed to be Spent | Available Balance |
|------------------------------------------|-------------------|-------------------|--|-------------------|-------------------|--------------------------|----------------------|
| | | Adjustments | | | | | |
| Professional Travel | - | 407,951.00 | | 407,951.00 | 8,155.00 | 399,796.00 | - |
| Facilitating Services | 28,208,905.00 | 25,225,512.00 | | 53,434,417.00 | 25,904,944.00 | 27,529,473.00 | - |
| Project Development Fund | | | | | | | |
| Vice Chancellor for Research | 6,781,060.00 | 5,754,171.00 | | 12,535,231.00 | 4,717,876.00 | 7,817,355.00 | - |
| Student Excellence in Research Awards | - | - | | - | - | - | - |
| Vice President for Research & Innovation | 4,741,183.00 | (3,309,501.00) | | 1,431,682.00 | 2,688,424.00 | (1,256,742.00) | - |
| Research Services | 5,823,281.00 | (254,684.00) | | 5,568,597.00 | 5,933,075.00 | (364,478.00) | - |
| RCUH Management Fee | 6,143,079.00 | - | | 6,143,079.00 | 6,143,079.00 | - | - |
| TOTAL | 51,697,508 | 27,823,449 | | 79,520,957 | 45,395,553 | 34,125,404 | - |

RESULTS OF SEED MONEY AND PROFESSIONAL TRAVEL AWARDS

1. Extramural Awards to Recipients of Seed Money

Recipients of these funds are actively seeking new sources to support their research. The Scholarly Development Fund ("Fund") is very important in this connection, especially for younger faculty not yet having established a track record. Once they have initiated research with seed money, they can cite initial results, and thus make a much stronger case for receiving additional support.

Results from seed money are not always immediate, but may occur sometime after a seed money award. The results reported herein thus may be due to funds invested in earlier years. The Fund was initiated in 1975.

The Research Council awards for seed money from the Fund give due consideration to the potential for generating extramural support. Faculty receiving seed money awards must indicate their plans for extramural funding to further research. During the last fiscal year, no awards were given for seed money.

2. Extramural Awards to Faculty Receiving Travel Support

The recipients of these travel awards are all productive scholars with active research agendas. The presentation of their research results at major professional meetings allows the investigators to meet with potential sponsors and exchange ideas with colleagues. It also exposes the broader professional community, including funding agencies, to the work being accomplished at the University of Hawai'i, results in increased professional recognition of investigator and the University, and leads to additional funding.

TOTAL EXTRAMURAL SUPPORT FOR RESEARCH/TRAINING, 2020-2021

Attached summary table, Table 7 for research and non- research projects, each of which gives comparative figures for awards made to the University, the past five years.

In 2020-2021, research awards worth \$238,259,645 and training awards worth \$247,269,281 were received.

CONCLUSIONS:

As summarized in this report, the Research and Training Revolving Fund is essential to the effective operation of the programs administered through this office. It is one of the most important sources of support this University has. The Governor and the Legislature should be commended for their foresight in establishing the Fund as an investment in the health of research and training at the University, and for the provision of the additional funds for equipment, repairs and maintenance.

Respectfully submitted,

Vassilis L. Syrmos
Vice President for Research & Innovation

Attachments

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Table 1
2020-2021 Professional Travel Awards Annual Report – Mānoa

| Count | Last Name | First Name | Rank | Estimated Funds Requested | Amount Approved | Department | Conference | Title of Presentation |
|---------------|--------------|------------|------|---------------------------|-------------------|------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 1 | Furuto | Linda | I5 | \$ 175.00 | \$ 175.00 | Curriculum Studies | 2021 National Council of Teachers of Mathematics Virtual Annual Meeting | Rehumanizing Mathematics Classrooms through Equity and Access in Ethnomathematics |
| 2 | Harris-McCoy | Daniel | I4 | \$ 280.00 | \$ 280.00 | LLEA | International Association for the Study of Dreams Annual Conference | Virgil's Aeneid and Aeneas' False Dream of Ancient Rome |
| 3 | Murphy | Mark | I3 | \$ 360.00 | \$ 360.00 | Educational Psychology | AEPF 46th Annual Conference | Heightened Immigration Enforcement and School Enrollment: Evidence from 2012-18 |
| 4 | Ooi | Phillip | I5 | \$ 335.00 | \$ 335.00 | Civil and Environmental Engineerin | 2021 Transportation Research Board Annual Meeting | Incorporating Load Cycle Number and Shear Stress Ratio in a Simple Permanent Deformation Model for Unbound Material |
| 5 | Yamauchi | Lois | I5 | \$ 185.00 | \$ 185.00 | Educational Psychology | American Educational Research Association | Formative Measurement to Support Teacher Learning to Implement Instructional Conversations for Equitable Participation |
| Total: | | | | \$1,335.00 | \$1,335.00 | | | |

Table 2
2020-2021 Professional Travel Awards Annual Report – West O‘ahu

| <u>Group Count</u> | <u>Faculty</u> | <u>Rank</u> | <u>Department</u> | <u>Estimated Funds Requested</u> | <u>Amount Awarded</u> | <u>Purpose</u> | <u>Title of Presentation/Paper</u> |
|--------------------|--------------------|-------------|-----------------------------------|----------------------------------|-----------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Ashburn, Bradley | I3 | Math, Natural and Health Sciences | 595.00 | 595.00 | Experimental Biology 2021 | Synthesis of Novel Anti-leishmanial Agents |
| 2 | Chernisky, Carina | L3 | Library | 300.00 | 399.00 | Association of College & Research Libraries | Low Bandwidth-High Engagement: Making Library Connections in Quarantine & Beyond |
| 3 | Ikeda, Cathy | I4 | Education | 180.00 | 175.00 | National Conference for Teachers of English | Ho‘okaulike: Balancing Literacy Instruction Through An Indigenous, Hawai‘i Focused Perspective |
| 4 | Mello, Christina | I4 | Social Science | 280.00 | 280.00 | Society for Applied Anthropology | Sustainable Social Enterprise and Growing Community Wellbeing in Wai‘anae Hawai‘i |
| 5 | Romero, Yasmine | I3 | Humanities | 284.00 | 249.00 | American Association of Applied Linguistics | Speaking Absences: Pidgin From the Perspectives of K-12 Teachers in Hawai‘i |
| 6 | Levy, Jason | I5 | Public Administration | 1,250.00 | 500.00 | 6th International Conference on Recent Trends in Computer Science and Electronics | Advances in Indigenous Pedagogies for Underwater Autonomous Docking Stations and Disaster Risk Reduction: A UHWO-UH Manoa partnership for a second-generation Marine Collaborative Robot Testbed |
| 7 | Schwartz, Jonathan | I4 | Education | 335.00 | 335.00 | Association for the Advancement of Computing in Education | Moving Online: Creating Effective Tasks for Analysis of Teaching Evidence |
| 8 | James, Laurie | I3 | Education | 249.00 | 150.00 | National Council of Teachers of Mathematics | Modeling Strategies to Integrate Hands-on Activities that will Create an Inclusive Environment |
| 9 | Vacca, Kirsten | I3 | Social Science | 270.00 | 270.00 | Society for American Archaeology Annual Conference | Diverse Expertise: On the Importance of Multivocality and Inclusion in Archaeology |
| 10 | Aumer, Katherine | I3 | Social Science | 295.00 | 295.00 | Society for Affective Science 2021 Virtual Meeting | Cross-Cultural Examination of Hate |

Table 2
2020-2021 Professional Travel Awards Annual Report – West O‘ahu

| <u>Group Count</u> | <u>Faculty</u> | <u>Rank</u> | <u>Department</u> | <u>Estimated Funds Requested</u> | <u>Amount Awarded</u> | <u>Purpose</u> | <u>Title of Presentation/Paper</u> |
|--------------------|---------------------|-------------|-----------------------------------|----------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 11 | Chernisky, Carina | L3 | Library | 399.00 | 399.00 | Association of College & Research Libraries | Embracing Virtual Spaces: OER Trainings in the COVID-19 Era |
| 12 | Ikeda, Cathy | I4 | Education | 700.00 | 700.00 | National Conference on Race and Ethnicity | Huihiahia: Using the Pandemic as a Portal for Social Transformation |
| 13 | Machosky, Brenda | I5 | Humanities | 50.00 | 50.00 | American Association of Australasian Literary Studies | The State of the Organization and the Journal Antipodes |
| 14 | Wong, Kamuela | I4 | Math, Natural and Health Sciences | 65.00 | 65.00 | Society for Mathematical Biology 2021 Annual Meeting | A Mathematical Model of the Transmission of Rat Lungworm Disease |
| 15 | Liu, Veny | I3 | Math, Natural and Health Sciences | 435.00 | 435.00 | 10th Annual Hawaii University International Conferences on Science, Technology & Engineering, Arts, Mathematics and Education (STEM/STEAM & Education) | Teaching Stem Online: From Quagmire to Boon |
| 16 | Aumer, Katherine | I3 | Social Science | 159.00 | 159.00 | American Psychological Sciences Convention | PreElection Emotions of Democrats and Republicans |
| 17 | Kamai, Stephanie | S5 | Education | 358.00 | 357.00 | Ireland International Conference on Education | From My Na‘au |
| 18 | Williamson, Lynette | I3 | Math, Natural and Health Sciences | 435.00 | 435.00 | 10th Annual Hawaii University International Conferences on Science, Technology & Engineering, Arts, Mathematics and Education (STEM/STEAM & Education) | Teaching Stem Online: From Quagmire to Boon |
| 19 | Kamai, Stephanie | S4 | Education | 406.00 | 410.00 | International Conference on Education an New Developments | Personal Perspectives that Matter |
| 20 | Ashburn, Bradley | I3 | Math, Natural and Health Sciences | 99.00 | 99.00 | American Chemical Society Spring National 2021 Conference | Synthetic studies toward novel antileishmanial agents |
| TOTAL | | | | 7,144.00 | 6,357.00 | | |

Table 3
2020-2021 Distribution of Facilitating Services Fund

| RTRF Revenue by Unit | Basis | Allocation |
|----------------------------------------------------------|----------------------|----------------------|
| College of Arts & Humanities | 24,300.55 | |
| College of Education | 1,816,336.68 | |
| College of Engineering | 1,018,135.73 | |
| College of Language, Linguistics and Literature | 521,647.10 | |
| College of Natural Sciences | 3,922,635.76 | |
| College of Social Sciences | 1,607,280.33 | |
| College of Tropical Agriculture and Human Resources | 1,759,618.23 | |
| Hawai'iuiakea School of Hawaiian Knowledge | 81,457.42 | |
| Institute for Astronomy | 3,873,755.10 | |
| John A. Burns School of Medicine | 8,197,361.80 | |
| Lyon Arboretum | 43,199.37 | |
| Outreach College | 4,908.63 | |
| School of Architecture | 13,367.23 | |
| School of Nursing and Dental Hygiene | 87,289.05 | |
| School of Ocean and Earth Science and Technology | 12,346,191.81 | |
| School of Pacific and Asian Studies | 31,989.02 | |
| School of Social Work | 948,089.33 | |
| Schilder College of Business | 34,294.57 | |
| UH Cancer Center | 5,420,045.17 | |
| Vice Chancellor, Academic Affairs | 44,542.68 | |
| Vice Chancellor, Research | 391,423.19 | |
| Vice Chancellor, Students | 348,721.44 | |
| Water Resources Research Center | 154,510.36 | |
| William S. Richardson School of Law | 169,653.84 | |
| Mānoa | 42,860,754.39 | 28,798,284.00 |
| UH Hilo | 1,861,734.37 | |
| SBDC | 121,797.82 | |
| UH Hilo | 1,983,532.19 | 1,293,157.00 |
| UH West Oahu | 255,091.86 | |
| West O'ahu | 255,091.86 | 195,390.00 |
| VP for Community College | 103,517.07 | |
| Hawai'i CC | 39,817.92 | |
| Honolulu CC | 159,439.30 | |
| Kapi'olani CC | 166,443.60 | |
| Kaua'i CC | 91,257.71 | |
| Leeward CC | 110,845.34 | |
| Maui College | 951,080.72 | |
| Windward CC | 219,686.64 | |
| Campus CC | 1,842,088.30 | 1,014,666.00 |
| VP for Academic Planning and Policy | 331,962.63 | |
| VP for Administration | 4,073.57 | |
| VP for Research and Innovation | 848,386.81 | |
| Office of the VP for Information Tech/Chief Info Officer | 3,514,105.99 | |
| Applied Research Laboratory | 57,512.17 | |
| Systemwide | 4,756,041.17 | 3,688,468.00 |
| Grand Total | 51,697,507.91 | 34,989,965.00 |

Table 4
2020-2021 Project Development Fund Awards – Vice Chancellor for Research

| <u>Item No.</u> | <u>Unit</u> | <u>Account Title</u> | <u>P.I.</u> | <u>Amount</u> |
|-----------------|-----------------------------------------------------|--------------------------|--------------------|---------------|
| 1 | College of Engineering | Faculty Start-Up | Chen, R. | 62,500.00 |
| 2 | College of Engineering | Faculty Start-Up | Chun, I. Y. | 31,250.00 |
| 3 | College of Engineering | Faculty Start-Up | Jun, E. | 25,000.00 |
| 4 | College of Engineering | Faculty Start-Up | Park, H. | 31,250.00 |
| 5 | College of Engineering | Faculty Start-Up | Ray, T. | 70,750.00 |
| 6 | College of Engineering | Faculty Start-Up | Weldon, J. | 100,000.00 |
| 7 | College of Language Linguistics and Literature | Chinese Flagship Support | Song, J. | 30,000.00 |
| 8 | College of Natural Sciences | Research Support | Amend, A. | 24,000.00 |
| 9 | College of Natural Sciences | Faculty Start-Up | Belcaid, M. | 8,333.33 |
| 10 | College of Natural Sciences | Faculty Start-Up | Chong, R. | 35,000.00 |
| 11 | College of Natural Sciences | Faculty Start-Up | Farrah, D. | 8,333.33 |
| 12 | College of Natural Sciences | Faculty Start-Up | Ferguson, J. | 39,666.00 |
| 13 | College of Natural Sciences | Faculty Start-Up | Fuller, A. | 3,333.00 |
| 14 | College of Natural Sciences | Faculty Start-Up | Haas, R. | 24,000.00 |
| 15 | College of Natural Sciences | Faculty Start-Up | Haglund, E. | 83,333.33 |
| 16 | College of Natural Sciences | Faculty Start-Up | Heyduk, C. | 95,000.00 |
| 17 | College of Natural Sciences | Faculty Start-Up | Honarvar, S. | 26,720.00 |
| 18 | College of Natural Sciences | Faculty Start-Up | Hyvi, J. | 83,333.33 |
| 19 | College of Natural Sciences | East China MOU | Kaiser, R. | 50,000.00 |
| 20 | College of Natural Sciences | Faculty Start-Up | Muir, C. | 55,000.00 |
| 21 | College of Natural Sciences | Faculty Start-Up | Nasrin, F. | 10,000.00 |
| 22 | College of Natural Sciences | Faculty Start-Up | Nishimura, K. | 87,000.00 |
| 23 | College of Natural Sciences | Faculty Start-Up | Rubin, D. | 52,833.33 |
| 24 | College of Natural Sciences | Faculty Start-Up | Sadowski, P. | 40,000.00 |
| 25 | College of Natural Sciences | Faculty Start-Up | Sakstein, J. | 50,000.00 |
| 26 | College of Natural Sciences | Faculty Start-Up | Sugiyama, A. | 36,178.00 |
| 27 | College of Natural Sciences | Faculty Start-Up | Sun, R. | 60,000.00 |
| 28 | College of Natural Sciences | Faculty Start-Up | Sutherland, T. | 24,000.00 |
| 29 | College of Natural Sciences | Faculty Start-Up | Tewari, V. | 6,666.00 |
| 30 | College of Natural Sciences | MS Repair | Williams, P. | 9,340.00 |
| 31 | College of Natural Sciences | Faculty Start-Up | Zenil-Ferguson, R. | 39,333.00 |
| 32 | College of Tropical Agriculture and Human Resources | Research Support | Lee, A. | 50,258.00 |
| 33 | College of Tropical Agriculture and Human Resources | Faculty Start-Up | Price, M. | 87,000.00 |

Table 4
2020-2021 Project Development Fund Awards – Vice Chancellor for Research

| <u>Item No.</u> | <u>Unit</u> | <u>Account Title</u> | <u>P.I.</u> | <u>Amount</u> |
|-----------------|--------------------------------------------|-------------------------|--------------------|-----------------------|
| 34 | Graduate Division | GSO Support | Westfall-Senda, M. | 50,000.00 |
| 35 | Graduate Division | GSO Merit Support | Westfall-Senda, M. | 57,940.00 |
| 36 | Information Technology Services | HI Data Sci | Jacobs, G. | 250,000.00 |
| 37 | Institute for Astronomy | Faculty Start-Up | Baxter, E. | 58,333.33 |
| 38 | Institute for Astronomy | Faculty Start-Up | Bottom, M. | 40,000.00 |
| 39 | Institute for Astronomy | Faculty Start-Up | Shappee, B. | 65,000.00 |
| 40 | Institute for Astronomy | Faculty Start-Up | VanSaders, J. | 65,000.00 |
| 41 | John A. Burns School of Medicine | HJMPH journal | Hedges, J. | 15,000.00 |
| 42 | John A. Burns School of Medicine | MHRT Program | Nerurkar, V. | 103,209.60 |
| 43 | John A. Burns School of Medicine | COBRE III - Ward | Ward, S. | 42,116.00 |
| 44 | School of Ocean & Earth Science Technology | Faculty Start-Up | Coats, S. | 33,000.00 |
| 45 | School of Ocean & Earth Science Technology | Faculty Start-Up | Dobrica, E. | 100,000.00 |
| 46 | School of Ocean & Earth Science Technology | Faculty Start-Up | Hawco, N. | 33,333.00 |
| 47 | School of Ocean & Earth Science Technology | AEC Service | Ishii, H. | 40,000.00 |
| 48 | School of Ocean & Earth Science Technology | Faculty Start-Up | Johansen, J. | 100,000.00 |
| 49 | School of Ocean & Earth Science Technology | NSF-MRI Cost Share | Konter, J. | 89,000.00 |
| 50 | School of Ocean & Earth Science Technology | NERRS Support | Lemus, J. | 75,000.00 |
| 51 | School of Ocean & Earth Science Technology | DOE Cost Match - Severa | Severa, G. | 23,609.00 |
| 52 | School of Ocean & Earth Science Technology | Faculty Start-Up | Stuecker, M. | 50,000.00 |
| 53 | School of Ocean & Earth Science Technology | Faculty Start-Up | Torri, G. | 30,000.00 |
| 54 | School of Ocean & Earth Science Technology | Faculty Start-Up | White, A. | 90,000.00 |
| 55 | School of Pacific and Asian Studies | CSEAS GA Support | Stark, J. | 42,576.00 |
| 56 | Vice Chancellor for Research | Coconut Island R&M | Kameoka, V. | 493.00 |
| 57 | Vice Chancellor for Research | VCR Operating | Kameoka, V. | 34,000.00 |
| 58 | Vice Chancellor for Research | Makai Pier | Kameoka, V. | 40,000.00 |
| 59 | Vice Chancellor for Research | Coconut Island R&M | Kameoka, V. | 57.88 |
| 60 | Vice Chancellor for Research | Primo Conference | Kameoka, V. | 5,000.00 |
| 61 | Vice Chancellor for Research | Bond | Kameoka, V. | 1,664,305.23 |
| 62 | Vice Chancellor for Research | Strategic Investment | Konter, B. | 10,000.00 |
| 63 | Vice Chancellor for Research | UROP | Litton, C. | 2,821.00 |
| 64 | Vice Chancellor for Research | UROP Support | Litton, C. | 5,547.00 |
| 65 | Waikiki Aquarium | Research Support | Rossiter, A. | 500,000.00 |
| 66 | Water Resources Research Center | Research Support | Giambelluca, T. | 53,875.00 |
| | TOTAL COMMITTED | | | \$5,208,626.69 |

Table 5
2020-2021 Student Excellence in Research Awards

NONE

Table 6
2020-2021 VP for Research and Innovation Investments

| Item | Campus | Unit | Purpose | Commitment |
|------|--------|-------------------------------------------------|-----------------------------------|---------------------|
| 1 | HI | Chancellor | COBRE | 125,000.00 |
| 2 | HI | Chancellor | Center for Maunakea Stewardship | 712,000.00 |
| 3 | HI | Chancellor | PISCES | 270,000.00 |
| 4 | MA | School of Ocean and Earth Science and Technolog | Faculty Start-Up | 100,000.00 |
| 5 | MA | School of Ocean and Earth Science and Technolog | KOK Support | 250,000.00 |
| 6 | MA | College of Social Sciences | UHERO | 64,625.00 |
| 7 | MA | John A. Burns School of Medicine | Akahi Cohort Program | 125,000.00 |
| 8 | MA | College of Natural Sciences | Decommission the NMR Spectrometer | 6,930.00 |
| 9 | SW | Vice President for Research and Innovation | UH Ventures Support | 392,499.98 |
| 10 | SW | Vice President for Research and Innovation | Excellence in Research Award | 12,000.00 |
| 11 | SW | Office of General Counsel | Research Support | 210,354.18 |
| 12 | SW | Office of General Counsel | Mauna Kea Legal Fees | 272,972.26 |
| | | | | <u>2,541,381.42</u> |

Table 7
Five-Year Summary of Research and Non-Research Grants and Contracts Awarded

| <u>Description</u> | <u>Fiscal Year</u> 2017 | <u>Fiscal Year</u> 2018 | <u>Fiscal Year</u> 2019 | <u>Fiscal Year</u> 2020 | <u>Fiscal Year</u> 2021 |
|---------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| Research | 209,249,788 | 215,982,321 | 222,860,456 | 229,664,292 | 238,259,645 |
| Non-Research | 177,751,917 | 170,329,382 | 198,991,704 | 220,774,957 | 247,269,281 |
| | 387,001,705 | 386,311,703 | 421,852,160 | 450,439,249 | 485,528,926 |