

# Committee on Biomedical Research (CBR)

## From the Faculty Handbook:

**Committee Charge:** The Committee for Biomedical Research (CBR) is a standing committee of the Faculty of Medicine that provides a forum for faculty input into discussions aimed at identifying current and future research areas that cross departmental and center boundaries and are strong candidates for investment by the SOM. Topics will include:

- 1.Strategic vision for research
  - 2.Basic, clinical, translational, and population research
  - 3.New technologies and emerging research approaches
- 
- Issues related to research may be brought before the CBR by the Dean, the Vice Dean for Research, Department Chairs (individually or through the Council of Basic Science Chairs), Center Directors, faculty groups, or individual faculty. Recognizing that issues and needs related to the conduct of basic, clinical, translational, and population science are different, the CBR may appoint *ad hoc* working groups to provide guidance and recommendations on specific areas of interest. These working groups will be in existence for less than a year, report to the CBR, and interface with existing committees at the School of Medicine that have related competencies.

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# CBR- Committee Charge

**We want to help foster research across the SOM (the University, and the Region)**

**Two Major Areas of Focus for the past few years:**

1. Address city-wide barriers to cooperation among the SOM and the affiliated clinical institutions in all areas of research  
IRB, Data Sharing, Biospecimen Sharing, etc.  
Discuss solutions, Identify areas of success
2. Review of Type B Centers- how they can engage researchers city-wide

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# Members of Committee

Committee for Biomedical Research – Member list as of 2022-02-24

| Name                 | Title/Role                                   | Elected/Appointed | Term End |
|----------------------|--|-------------------|----------|
| Susann Brady-Kalnay  | Chair of CBR and Chair of Research Portfolio | Appointed by Dean | 2027     |
| Robert Bonomo        | Vice-Chair of Research Portfolio             | Elected           | 2024     |
| Walter Boron         | Chair of Enabling Technologies               | Appointed by Dean | 2024     |
| Derek Taylor         | Chair of Research Infrastructure             | Appointed by Dean | 2026     |
| Stathis Karathanasis | Chair of Biomedical Workforce                | Appointed by Dean | 2026     |
| VACANT               | Member                                       | Appointed by Dean | 2027     |
| Theresa Pizarro      | Member                                       | Appointed by Dean | 2024     |
| Diana M. Perez       | Vice-Chair of Enabling Technologies          | Elected           | 2024     |
| You-Wei Zhang        | Vice-Chair of Biomedical Workforce           | Elected           | 2024     |
| Wendy Goodman        | Representative from SOM                      | Elected           | 2025     |
| Cynthia Bearer       | Representative from UH                       | Elected           | 2025     |
| Justin Lathia        | Representative from CCLCM                    | Elected           | 2025     |
| Kenneth Laurita      | Representative from MHMC                     | Elected           | 2027     |
| Svetlana Pundik      | Representative from VAMC                     | Elected           | 2025     |

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| Director                         | Centers & Institutes   |
|----------------------------------|--|
| Triolo, Ron                      | Advanced Platform Technology Research Center                   |
| Cameron, Mark                    | Applied functional Genomics Core                               |
| Rajagopalan, Sanjay              | Cardiovascular Research Institute                              |
| Basilion,James/Exner,Agata       | Case Center for Imaging Research (CCIR)                        |
| Chance, Mark                     | Case Center for Synchrotron Biosciences                        |
| Diehl, Alan                      | Case Comprehensive Cancer Center                               |
| Karn, Jonathan                   | Center for AIDS Research                                       |
| Bonomo, Robert                   | Center for Antimicrobial Resistance and Epidemiology           |
| Xu, Rong/Harte, Bill             | Center for Artificial Intelligence in Drug Discovery           |
| Ronis, Sarah                     | Center for Child Health & Policy at UH Rainbow                 |
| Konstan, Michael                 | Center for Clinical Investigation                              |
| Stange, Kurt                     | Center for Community Health Integration-CHI                    |
| Madabhushi, Anant                | Center for Computational Imaging and Personalized Diagnostics  |
| Betul Hatipoglu, MD, Director    | Center for Diabetes, Obesity and Metabolism                    |
| Burgener, Adam                   | Center for Global Health and Diseases                          |
| Bolen, Shari/Einstadter, Douglas | Center for Healthcare Research and Policy                      |
| Logio, Lia                       | Center for Medical Education                                   |
| Mears,Jason/Hoppel Charles       | Center for Mitochondrial Diseases                              |
| Chance, Mark                     | Case Center for Proteomics and Bioinformatics                  |
| Jankowsky, Ekhard                | Center for Psychoanalytic Child Development                    |
| Berger, Nathan                   | Center for RNA Science and Therapeutics                        |
| Sedor, John and Walter Boron     | Center for Science, Health and Society                         |
|                                  | Center for the Study of Kidney Biology & Disease               |
|                                  | Center for Translational Neuroscience                          |
| Mei, Lin/Eleni Markakis          | Cleveland Brain Health Initiative                              |
| Chakrapani, Sudha                | Cleveland Center for Membrane & Structural Biology (CCMSB)     |
| Kirsch, Robert                   | Cleveland Functional Electrical Stimulation (FES) Center       |
| Haines, Jonathan                 | Cleveland Institute for Computational Biology                  |
| Sedor, John/Boron, Walter        | Cleveland Research Training Network (CREATE) Scientists in KUH |
| Li, Jing                         | Computer and Data Sciences                                     |
| Flask, Chris                     | Core Facility Steering Committee                               |
| Drumm, Mitchell/Konstan, Michael | Cystic Fibrosis Research Center                                |
| Cominelli, Fabio                 | Digestive Health Research Institute and Core                   |
| Leskov, Konstatin                | Genetics and Genome Sciences                                   |
| Stamler, Jonathan                | Institute for Transformative Molecular Medicine                |
| Luebbers, Ellen                  | Mt. Sinai Skills and Simulation Center                         |
| Gerson, Stanton                  | National Center for Regenerative Medicine                      |
| Appleby,Brian                    | National Prion Disease Pathology Surveillance Center           |
| Durand, Dominique                | Neural Engineering Center                                      |
| Trapl, Erika                     | Prevention Research Center for Healthy Neighborhoods           |
| Cooper, Kevin                    | Skin Cancer Research Institute                                 |
| Freedman, Darcy                  | Swetland Center for Environmental Health                       |
| Hatipoglu, Betul                 | The Center for Diabetes, Obesity and Metabolism                |
|                                  | The Stem Cells Ethics Center                                   |
| Boom, W. Henry                   | Tuberculosis Research Unit                                     |
| Pikuleva, Irina                  | Visual Sciences Research Center                                |
| Viswanath, Satish/Scott, Jacob   | Center for AI Enabling Discovery in Disease                    |
| Tesar, Paul                      | Institute for Glial Sciences                                   |

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| Type B Center Reviews |                  |  |
|-----------------------|------------------|--|
| Thursday September 28 |                  |  |
| Time                  | Name             | Center   |
| 3:30 - 4:00 pm        | Satish Viswanath | Center for AI Enabling Discovery in Disease          |
| Thursday October 26   |                  |  |
| Time                  | Name             | Center   |
| 3:00 - 3:30 pm        | Paul Tesar       | Institute for Glial Sciences                         |
| Thursday November 16  |                  |  |
| Time                  | Name             | Center   |
| 3:00 - 3:30 pm        | Fabio Cominelli  | Digestive Health Research Institute and Core         |
| 3:30 - 4:00 pm        | Sarah Ronis      | Center for Child Health & Policy at UH Rainbow       |
| Thursday December 14  |                  |  |
| Time                  | Name             | Center   |
| 3:00 - 3:30 pm        | Rong Xu          | Center for Artificial Intelligence in Drug Discovery |
| 3:30 - 4:00 pm        |                  | Closed session for voting members of CBR             |
| Thursday January 25   |                  |  |
| Time                  | Name             | Center   |
| 3:00 - 3:30 pm        | Erika Trapl      | Prevention Research Center for Healthy Neighborhoods |
| 3:30 - 4:00 pm        | Jason Mears      | Center for Mitochondrial Research and Therapeutics   |
| Thursday February 22  |                  |  |
| Time                  | Name             | Center   |
|                       | Grace            |  |
| 3:00 - 3:30 pm        | McComsey         | IRB  |
| 3:30 - 4:00 pm        |                  |  |
| Thursday March 28     |                  |  |
| Time                  | Name             | Center   |
| 3:00 - 3:30 pm        | John Wang        | Genetics and Genome Sciences                         |
| 3:30 - 4:00 pm        |                  |  |

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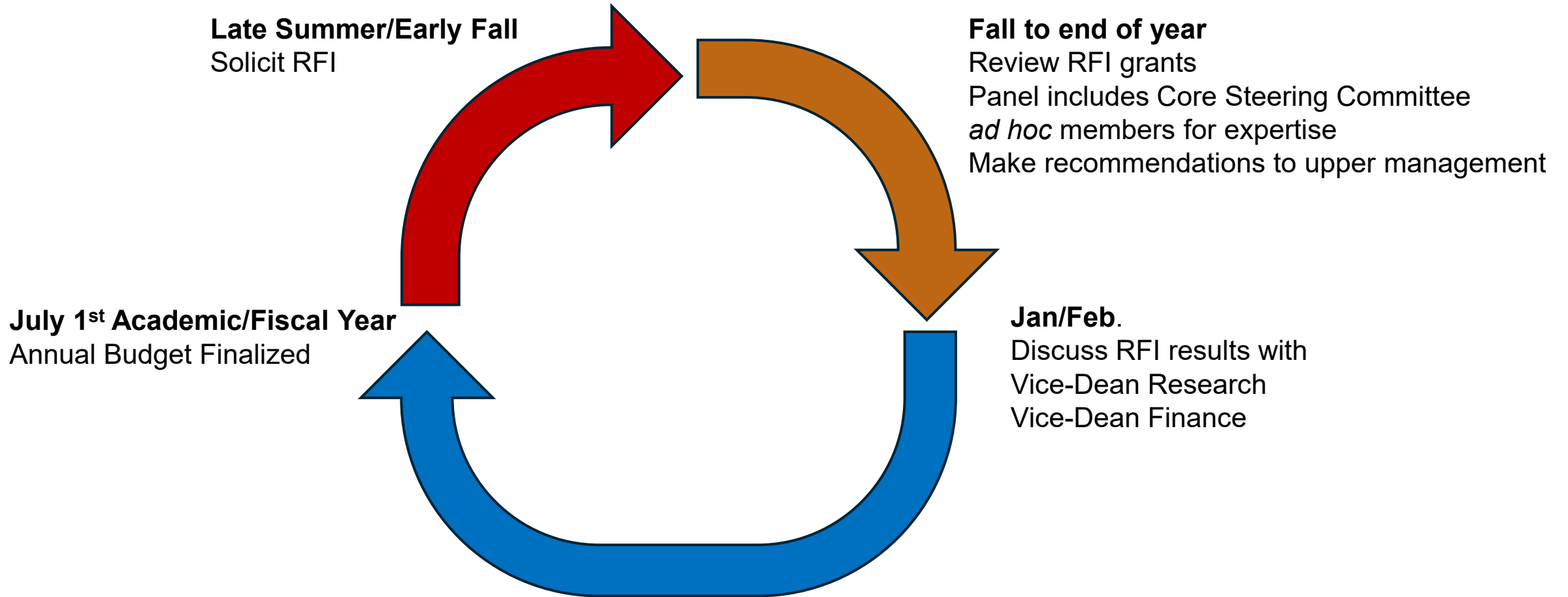
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U.S. Department of Veterans Affairs

| Equipment              | Core                | Approx. Investment | Notes  |
|------------------------|---------------------|--------------------|--|
| NovaSeq X              | Integrated Genomics | \$1.4M             | With robotics for automation; reduced cost to users          |
| Refeyn Mass Photometry | Mitochondria        | \$200K             | Accurate measurement of mass in a sample from 35 – 5000 kDa  |
| Nanostring CosMX       | Light Microscopy    | \$300K             | Single-Cell Spatial Imaging & -omics                         |
| 10X Xenium             | Light Microscopy    | \$300K             | Single-Cell Spatial Imaging & -omics                         |
| Merscope               | Cystic Fibrosis     | \$200K             | Single-Cell Spatial Imaging & -omics                         |
| Zeiss Lightsheet       | Light Microscopy    | S10 grant          | Lightsheet Multiview Imaging of Living and Cleared Specimens |
| Glacios 2 cryo-TEM     | Electron Microscopy | S10 grant          | 200 keV TEM for cryo-EM (single-particle and tomograph)      |

# Annual RFI Competition



# Core Steering Committee

Includes Center Directors/Managers and Users  
Meets once a month to discuss core-related issues

## **Review RFIs**

**Current Charge:** Implement KPI (Key Performance Indicators) that include metrics and measurements  
PMID: 26848284 provides a starting model

Help evaluate annual core performance, adherence to business plan, benefits to the broad research community, etc.  
Will help in determining core budgets on an annual or semi-annual basis  
Michael Piccirillo meets monthly with core Directors/Managers to discuss the KPIs and any issues surrounding them

## **Current CSC Members:**

Derek Taylor (Chair), Alex Miron, Craig Hodges, Mark Cameron, Marcin Golczak, Alan Levine, Helen Miranda, Joe Luna, Michael Jenkins, Yong Chen, Jill Stanley, Michael Piccirillo.

Also Invited to Participate:

John Pounardjian (CaseCCC), Ina Martin (Director of Research Cores at CWRU Central)



# 2023 RFI Data

## **Submissions:**

12 proposals submitted/reviewed

Requests ranged from \$50K - \$1.2M

3 Reviewers/proposal

## **Based on Review:**

4 grants were recommended for funding

Investments ranged from \$50K - \$525K per RFI

Dr. Ray Muzik secured a \$500+K DOE grant for the removal of the old cesium irradiators. Will purchase an Empyrean FLASH X-ray Irradiator for the Radiation Resources Shared Resource (\$75K). Support from CWRU has been approved.