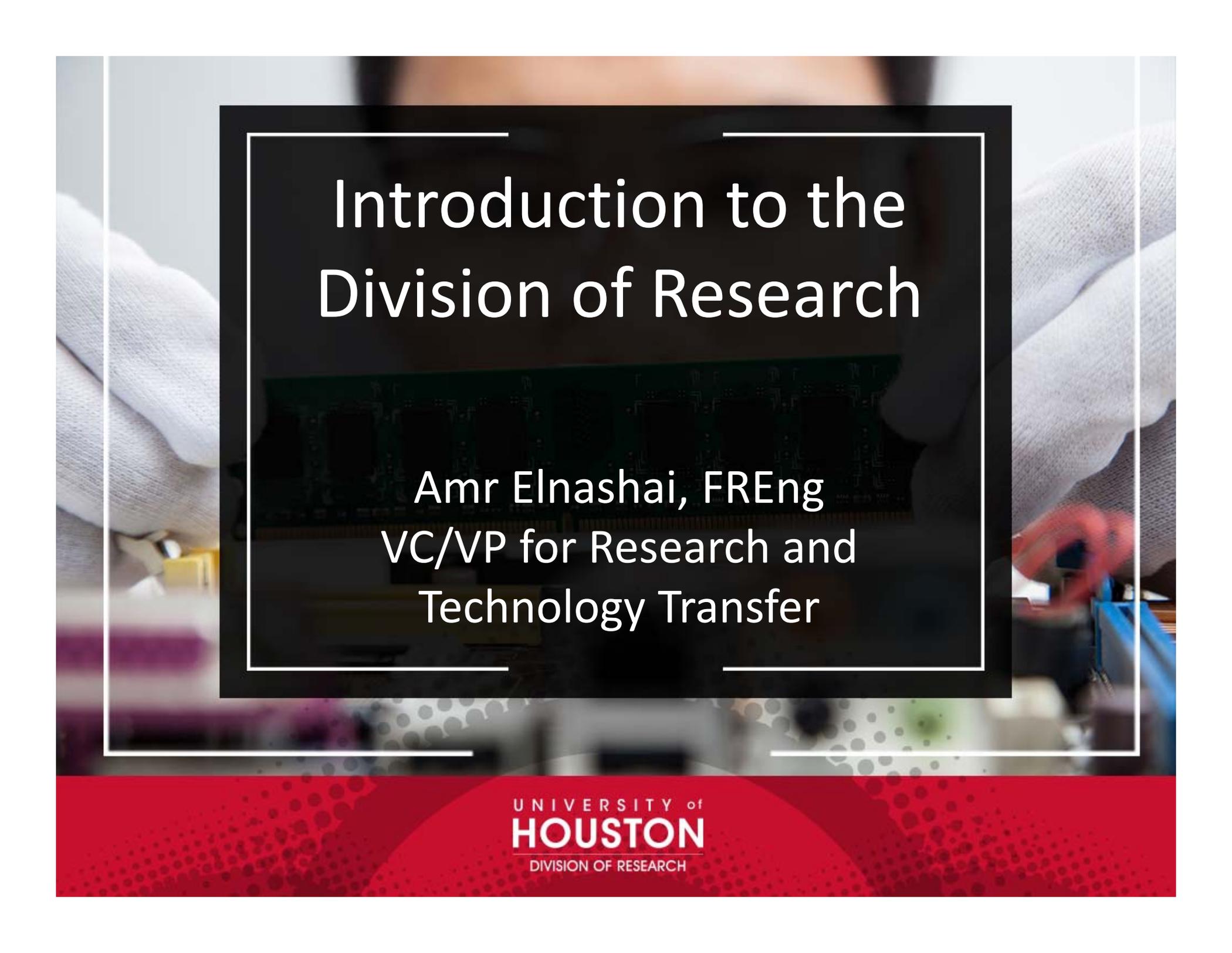


A photograph of two scientists in a laboratory setting. They are wearing white lab coats and safety glasses. The scientist on the left is holding a small component, and the scientist on the right is holding a tool. In the background, there is a large orange and white robotic arm. The image is overlaid with a dark grey rectangle containing white text.

Division of Research

2017 New Faculty Workshop

September 28, 2017



Introduction to the Division of Research

Amr Elnashai, FREng
VC/VP for Research and
Technology Transfer

Vision

To have the research enterprise at UH recognized as one of the most innovative, progressive, agile and rapidly growing in the nation, in service of society and economic development

A photograph of a scientist in a white lab coat and a light blue surgical mask, looking down at a tray of test tubes in a laboratory setting. The image is partially obscured by a dark, semi-transparent rectangular box containing text.

Mission

To effectively and professionally serve the research community at UH and to lead the university in creating, managing and propagating institutional research priorities

Division of Research



The Division of Research can help you:



Discover Funding Opportunities



Prepare a Proposal



Manage Your Grants and Contracts



Comply with Federal Regulations



File a Patent or Copyright



License your Technology



Launch a Startup

Research and Scholarship Committee

- Provides a faculty voice to University Administration on matters pertaining to research
- Branch of the faculty governance structure through Faculty Senate



Vallabh Das,
RSC Chair
Professor, Optometry



Raul Ramos,
RSC Vice-Chair
Associate Professor, History

Renowned Faculty

CAREER Award Winners: 48
NAI Members: 11

NAE Members: 14
NAS Members: 4

Nobel Laureate: 1



FACULTY PROGRAMS

Total: \$3,010,000

Small Grants
\$90,000

New Faculty Research
\$150,000

GEAR
\$250,000

Excellence in Research
and Scholarship
\$50,000

Technology Gap Fund
\$250,000

Bridge Funding
\$300,000

Small Core Equipment
\$500,000

Large Core Equipment
\$1M

Seed Research Funds
\$420,000

IMPACT OF THE DOR

Stewardship

- Inventors & Scholars Luncheon
- SURF – The Honors College
- SURE™ – Bauer College of Business
- Research First Look
- Research Experience for Undergrads (REU)

Visibility, Reputation & Engagement

- Inside Research Newsletter
- UH Research News
- Research & Innovation magazine
- UH Innovation
- USNWR Cards

Research & Scholarship Support

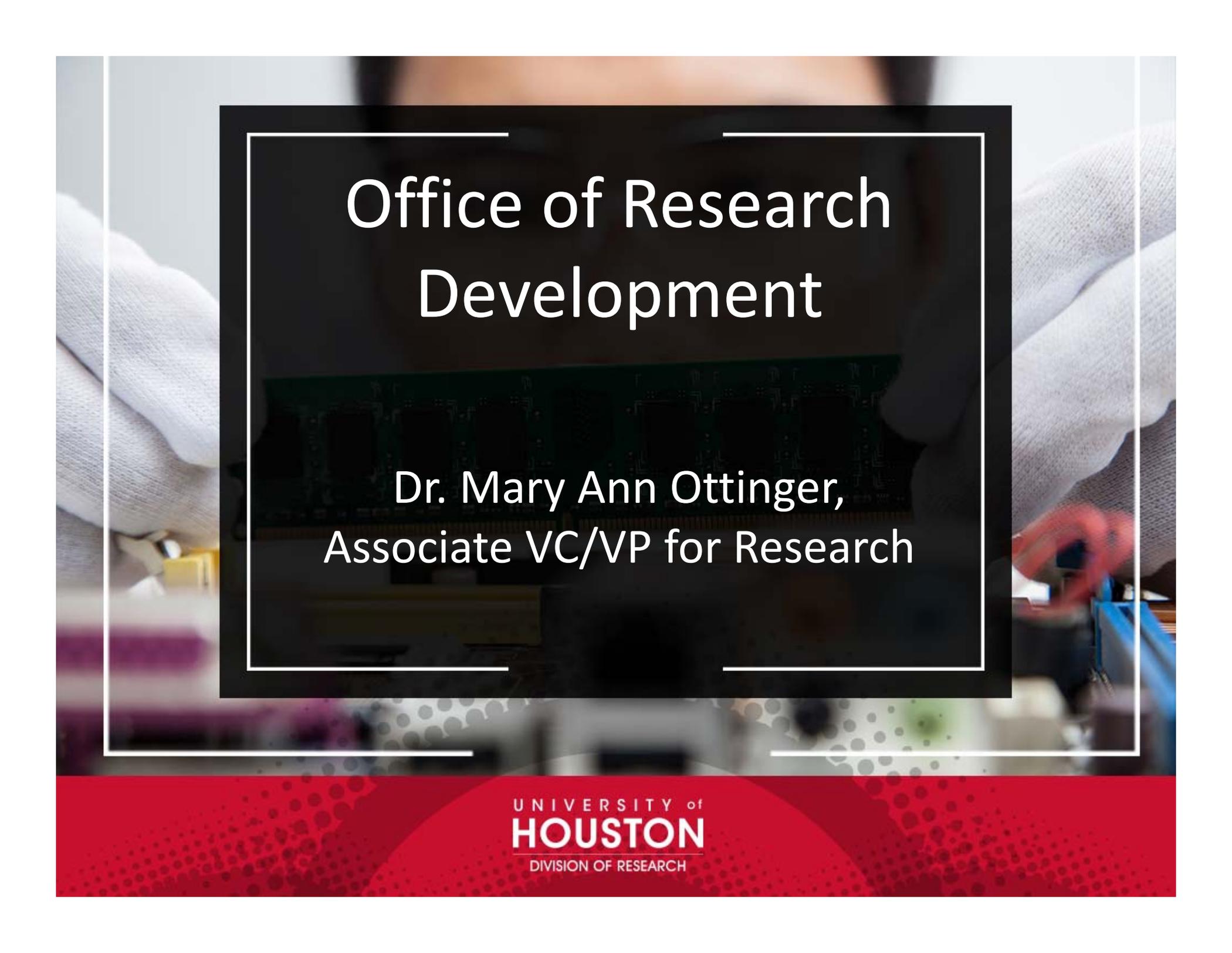
- Excellence in Research and Scholarship Program
- Grants to Enhance and Advance Research Program (GEAR)
- New Faculty Research Program
- Small Grants Program
- Bridge Funds Program
- Minor Research Core Facility Funding Program
- Technology Gap Fund
- Project Completion Grants

TO SERVE

the research community, grad students, keeping us compliant, satisfying client requirements, protecting our intellectual and financial interests

TO LEAD

managing the conversations, institutional research priorities, leading the implementation, supporting the broader view of individual and small-group research



Office of Research Development

Dr. Mary Ann Ottinger,
Associate VC/VP for Research

Ice Breaker!



Five Volunteers
(New Faculty or DOR execs)



Tell us two things
about yourself:
one is true, one is a lie

The others guess which one is the lie



Office of Research Development

- Identifies relevant funding opportunities, particularly those requiring multidisciplinary and multi-institutional teams
- Develops working groups to proactively address these opportunities
- Helps teams develop strategic content for competitive proposals
- Provides workshops and resources on grantsmanship with program officers from agencies and other funding entities
- Connects you to collaborative opportunities across local, regional and national entities

Proposal Pipeline

Identify

- Funding ops
- Dimensions of the RFA
- Interested Faculty
- Coalesce teams
- External partnerships

Facilitate

- Proposal development
- Crystallize objectives
- Refine according to program goals
- Schedule for completion of key components
- Timeline to submission
- Establish team communication

Enhance

- Review— internal and external peers
- Identify gaps/ weaknesses
- Identify missing collaborators/ technical areas
- Strengthen and polish

Submit

- RA's verify that technical requirements are complete

How to Find Funding



Division of Research



Pivot

Grants.gov

DOR Inside Research Newsletter

Office of Research Development website at <http://www.uh.edu/research/research-dev/funding-ops>

Limited Submissions Sharepoint Site at <https://share.uh.edu/dor/LS/default.aspx>

Contact ORD if you need help with

Finding funding to enhance current research and build new directions

Participating in working groups, such as transportation, cyber security/resilience, cancer biology or start a working group

Identifying internal and external collaborators

Organizing a brainstorm session with other researchers

Applying for a Limited Submission funding opportunity

Bringing a Program Officer or special guest to UH

Organizing a multi-disciplinary proposal or reviewing a proposal narrative

Obtaining a letter of Support from the VPR or Chancellor

Contact Office of Research Development

ord@uh.edu



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Assoc. VC/VP for Research
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713-743-8886



Hannah McQuitty
Executive Administrative Asst.
hmmcqui2@uh.edu
713-743-1095



Courtney Hunt, Ph.D.
Research Liaison Officer 2
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713-743-7247



Zach Bohannan
Research Liaison Officer 2
zsbohannan@uh.edu
713-743-4951

Sponsored Projects

Beverly Rymer,
Executive Director, Office of
Contacts and Grants

Pre-Award Functions (OCG)

- Proposal preparation assistance
- Creation and routing of transmittals for institutional approvals
- Coordination and review of research agreements with the contract officers
- **Award transfers to UH from another institution**
- Sponsor portal account maintenance and assistance with electronic grant systems (FastLane, eRA Commons, NSPIRES, Cayuse, eBRAP, etc.)

Institutional Data Sheet

- Available online
- Includes:
 - UH Federal Identification Number - 746001399
 - State employer Number - 69-074-0001-189
 - UH tax exempt Number - 17460013992000
 - DUNS # - 036837920
 - UH Indirect Cost Rate (F&A rate) - 53% on campus 26% off campus
 - Animal Use and Human subject Assurance Numbers
 - Most recent A-133 Federal audits
 - Accreditation and Statute
 - Authorized Institutional Representative signatories for grants

Contract Negotiation and Execution

Monetary Agreements

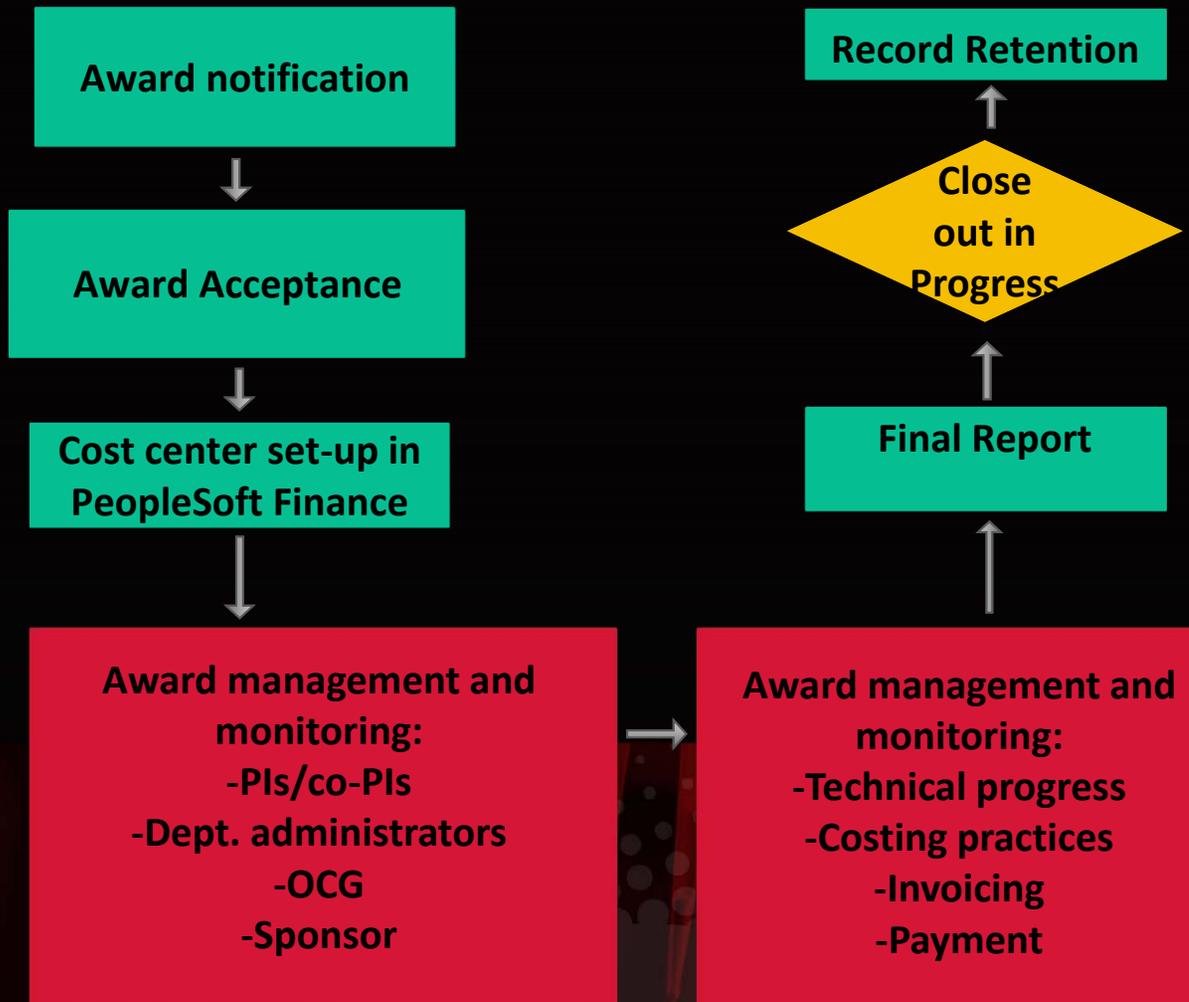
Used by external sponsors to issue an award

- Sponsored Research Agreement
- Consulting contract
- Service Agreement
- Consortium agreements
- Purchase Order
- Other types of Award letter

Non-Monetary Agreements

- Confidentiality and/or Non-Disclosure Agreement (NDA)
- Data use and Software License Agreement
- Equipment Use Agreement
- Master Agreement
- Material Transfer Agreement
- Memorandum of Understanding
- Teaming Agreement

Post-Award



Post-Award Roles and Responsibilities

Research Administrators (RA)

- Review award agreements and letters
- Establish project cost center
- Establish sub-awards agreements, Purchase Orders and monitor sub-recipients
- Track the submission of technical reports
- Initiate sponsor requests for prior approvals, no cost extensions, budget revisions
- Assist with award transfers
- Provide guidance with regard to the federal, state, university and sponsor's rules and regulations

Post-Award Roles and Responsibilities

Principal Investigator (PI)

- Oversees the conduct of the project
- Reads the terms and conditions of awards to ensure compliance
- Approves and reviews all expenditures on award
- Submits all technical and program reports as required

Department Business Administrator (DBA)

- Day to day payroll, purchasing and administrative duties related to the award
- Monitors expenditures for compliance with Federal, State, University and sponsors' policies
- Provides monthly reconciliation of expenditures by cost center to PI

Interim Funding

- Project cost center can be set up before the NOA is issued from the sponsor to allow the PI to begin a project
- There must be evidence from the sponsor of the award start date or reasonable expectation that Pre-Award spending is allowed
- Awards requiring IRB/IACUC approval cannot be setup without explicit approval from Compliance and/or the sponsor
- In the event that the award does not materialize, the expenditures will be transferred to a non-grant department cost center

Research Financial Services

- Reviews grant expenditures for invoicing and financial reporting
- Prepares inventory, intellectual property/patent and other non-financial reports
- Conducts the financial close out of awards with agencies and in the UH financial system
- Reconciles accounts receivables, sends payment reminders, initiate collections and process write-offs
- Coordinates all external audits
- Oversees effort reporting certification process

Residual Funds

Following the expiration of a fixed-price award, any unspent balance may be transferred to a residual funds cost center to be used by the PI to further his/her research objectives.

- The sponsor must have received and accepted all of the planned deliverables before the transfer can take place.
- The funds transferred to the residual cost center are no longer subject to the terms and conditions of the original award(s).

<http://www.uh.edu/research/sponsored-projects/proc-pol-guide/closeouts/2-residual-funds/>

Effort Reporting

The University uses the **MAXIMUS** software system for effort reporting.



The link to the system is located on AccessUH

Effort Reporting

1. Effort Reporting Guidelines & Procedure

- 1.1 [Effort Reporting Guidelines](#)
- 1.2 [Related Policies and Links](#)
 - 1.2.1 [Institutional Base Salary \(IBS\)](#)
 - 1.2.2 [Salary Cap Limitation for DHHS award including NIH](#)
 - 1.2.3 [Cost Sharing Guide](#)
 - 1.2.4 [Cost Transfer Guide](#)

2. Effort Reporting System (MAXIMUS)

- 2.1 [Accessing the Maximus System for Effort Reporting \(PDF\)](#)
- 2.2 [Training for the MAXIMUS System](#)
 - 2.2.1 [ERS Departmental Coordinator Training Manual \(PDF\)](#)
 - 2.2.2 [ERS Faculty Certifier Training Manual \(PDF\)](#)
 - 2.2.3 [ERS Faculty Certifier Quick Reference Guide \(PDF\)](#)

3. Training and Reference Tools

- 3.1 [Research Administration Certification Program \(RACP\) Training Slides \(ppt\)](#)
- 3.2 [Research Administration Certification Program \(RACP\) Outline \(doc\)](#)
- 3.3 [NCURA Effort Reporting and Certification \(Video\)](#)
- 3.4 [NIH Cap Calculator](#)
- 3.5 [FAQs: Effort Reporting](#)

Export Controls

Although the University of Houston does not normally conduct classified research export controls can impact the university in various others ways .

The UH designated Export Control Officer is Sandy Ulmer. She can be reached at (713) 743-1323 snbrown2@central.uh.edu

All UH Principal Investigators should complete the Export control online CITI Training Program. Information can be found on the DOR web at

<http://www.uh.edu/research/compliance/export-controls/>

Contact Office of Contracts and Grants (OCG)



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Executive Director
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713-743-5773



Javeria Kazi
Assistant Director
Post-Award
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Benjamin Mull, Ph.D.
Associate Director
Pre-Award
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713-743-3711



Grace Rosanes
Assistant Director
Research Financial Services
tgrace@central.uh.edu
713-743-3617

Networking Break: ORD and OCG

Technology Transfer

Overview of OIPM and CIP

Tom Campbell

Executive Director, OIPM;
Interim Executive Director, CIP

Technology Transfer

INTELLECTUAL PROPERTY



- Patents
- Licensing

OIPM

INNOVATION & PARTNERSHIPS



- Startups
- Venture Funds
- Innovation Center & Labs

CIP

How Faculty Sometimes See Tech Transfer Staff



Refreshed Approach to Technology Transfer



- Support Faculty/Awareness of IP
- Academic and Commercial Relevance



- Understand Industry Needs
- Simple Process; Time, IP Terms

- Lab to Industry Transfer
- Faculty, Student Opportunities

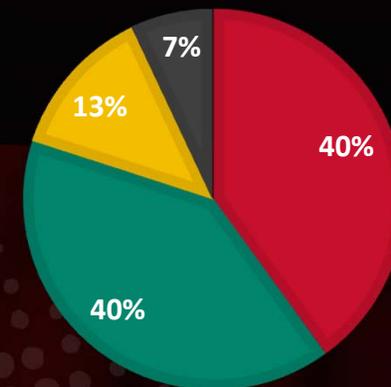
Patent and Publish: Why?



- Development of IP can lead to additional funding opportunities for your research.
- America Invents Act = First to file vs. first to invent
- DOR offsets all legal costs until technology is licensed

DISTRIBUTION OF LICENSE REVENUE

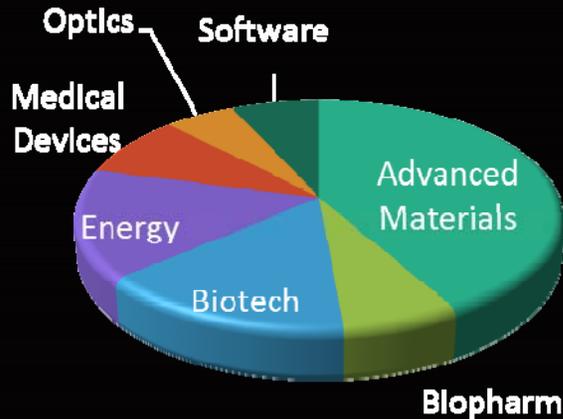
■ Inventor ■ UH ■ Dept/Center ■ College



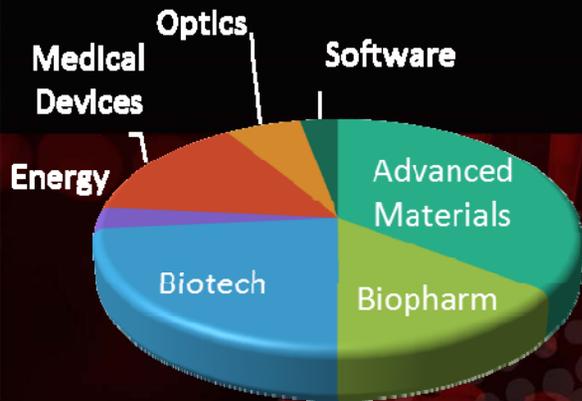
Houston Industry Sectors Match Well with UH IP Areas



UH ISSUED PATENTS: 261



UH ACTIVE LICENSES: 34



Major Industry Sectors in Houston

- Energy
 - U.S. and a world center for virtually every segment of the oil and gas industry
- Biotechnology and Life Sciences
 - more than 130 hospitals and health clinics, and some of the country's top research facilities
- Advanced Manufacturing and Technology
 - one of the largest concentrations of industrial space in the nation
- Aerospace and Aviation
 - Johnson Space Center
- Distribution and Logistics
 - #2 port based on tonnage, gateway for trade

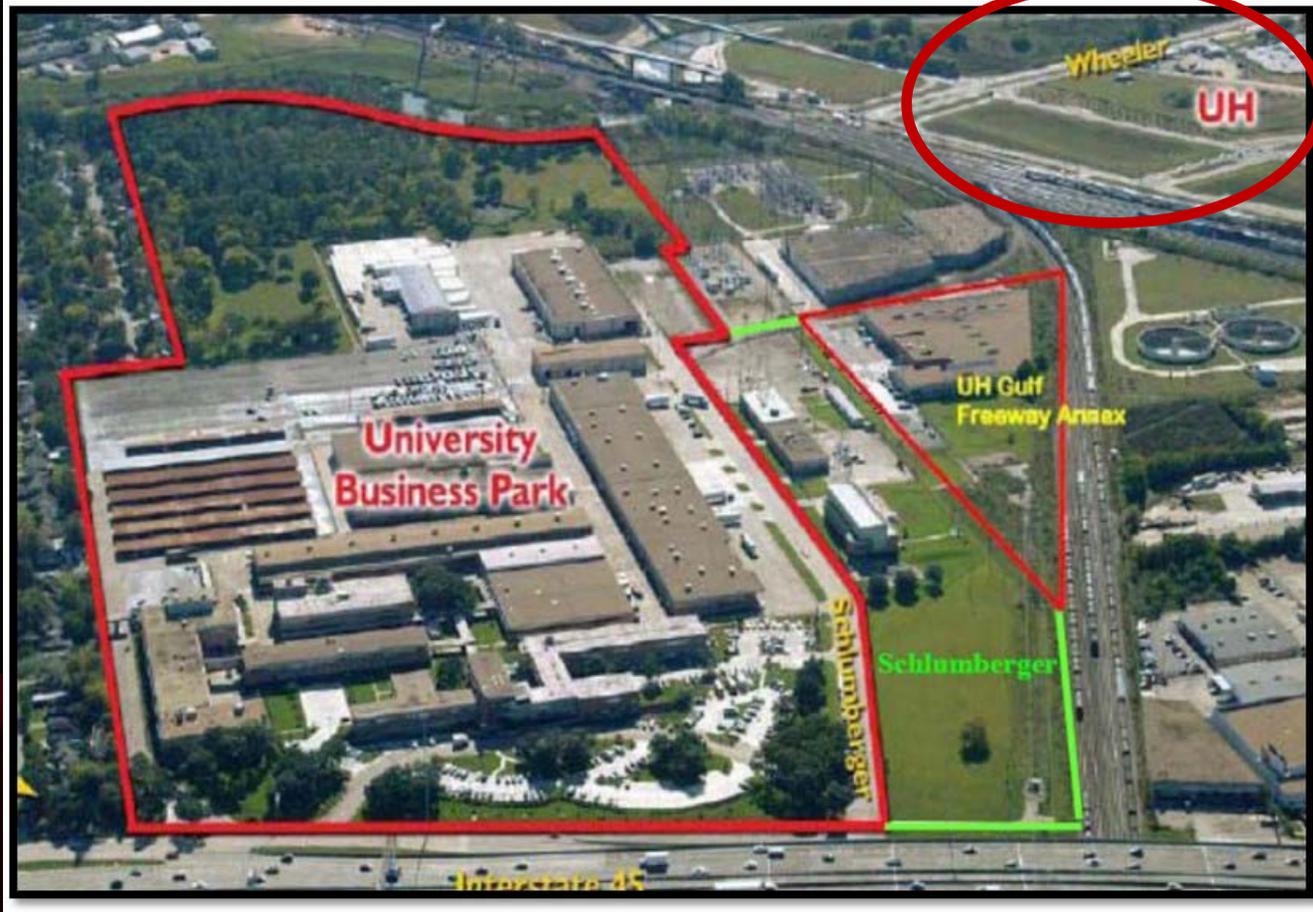
Source: UH OIPM, Greater Houston Partnership

Houston Technology and Innovation Task Force



Source: Houston Technology & Innovation Task Force, June 2017, slide 29

UH Energy Research Park (ERP)



- 74 acres
- 15 buildings
- Education
- Research
- Incubator space
- Economic Development

UH Innovation Center and Lab



Building 4 – Innovation Center



Facilities include common meeting areas, office space, and laboratory space.

13,000 ft² of Wet Lab
3,400 ft² of Office Space

De-risking technologies through laboratory proof of concept and commercial validation.

Building 5 – Wet/Dry Lab



Contact OIPM and CIP

www.uh.edu/innovation



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OIPM & CIP
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Nancy Mostafa
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Statistics, Technology,
Faculty Start-up, Internal Award
Distribution, Lab Renovation and
Construction

Cris Milligan
Assistant VP for Research
Administration

Research Information Center

- Manages hardware needs for DOR operations
- Manages the research administration software
- Manages the data collection and storage
- Provides reporting for sponsored research
- Submits data reports to governing bodies and sponsoring agencies

Information Security & Data Management

Before Starting Your Research

- What types of data will be utilized and produced?
- How much data will be used and where will it be stored?
- Who will be responsible for supporting the IT resources used for the research? Who is the responsible Information Security Officer?
- Are there any special privacy, security or compliance requirements for the protection of the data?

Information Security & Data Management

Before Starting Your Research:

- What strategy will be used for backup of the data?
- How long should the data be retained?
- Are there sharing requirements for the data?

Information Security & Data Management

Best Practices

- Your account is **your** responsibility. Never share your individual user IDs and passwords with anyone else (including TAs, RAs, etc.)
- Use a unique password for each account you have
 - work, personal email, banking, Facebook, etc.
- Change default passwords on research IT equipment
- Keep all software current with latest updates to operating system and applications.

Information Security & Data Management

Best Practices - Travel

- Physical Security – Always secure laptops and mobile devices when not in your direct possession
- Confidential or sensitive information must not be stored on mobile devices unless encrypted
- When traveling, especially internationally, use a temporary laptop/tablet with only essential applications and data needed for the trip. Erase the device upon return. Do not travel with critical research data unless absolutely necessary.

Information Security & Data Management

Resources are available to help with:

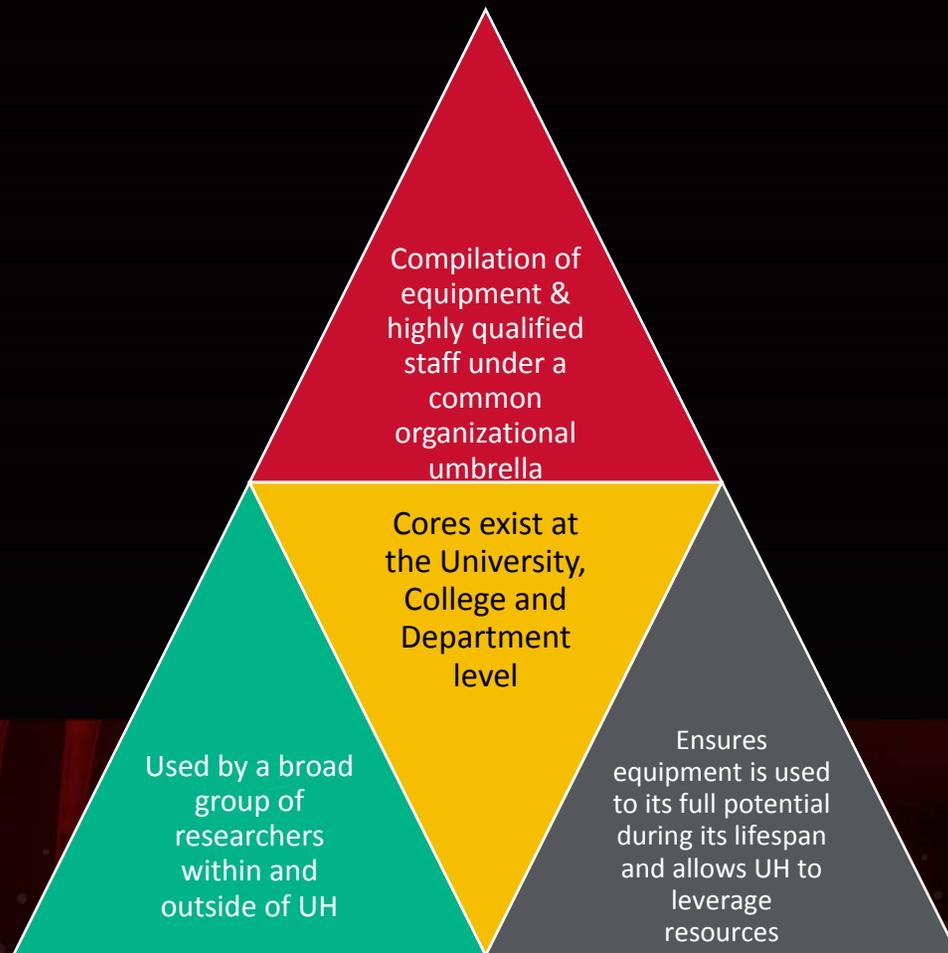
- Data Management Plans
- IT Compliance Questions
- Information Security Guidance & Risk Assessments
- IT Security Incident Investigation and Response

Contacts:

UIT Security: security@uh.edu or 832-842-4695

Your College/Division Information Security Officer
(ISO)

The Core Facility Concept



University Core Facilities

- Animal Care Operations
- Center for Advanced Computing & Data Systems
- Imaging Core Facility
- Keck NMR Facility
- Sequencing Center
- Texas Center for Superconductivity

College Core Facilities

- Burdette Keeland, Jr. Design Exploration Center
- Center for Life Sciences Technology
- Cullen College of Engineering Microscopy Center
- Geosensing Imaging & Mapping (GIM) Laboratory – NCALM
- NSM IT Printing Services
- Texas Center for Clean Engines, Emissions and Fuels
- UH Nanofabrication Laboratory
- Vision Science Core

Department Core Facilities

- Biology and Biochemistry Imaging Core
- Biomedical Engineering Research Core Laboratory
- Center for Nuclear Receptors and Cell Signaling (CNRCS)
- CHBE Machine Shop Service Center
- Chemistry Service Facilities (Electronic, Glass, Machine, NMR, X-Ray)
- Civil & Environmental Engineering Machine Shops & Labs (CEEMSL)
- Earth & Atmospheric Sciences Center for Petroleum Geochemistry
- Earth & Atmospheric Sciences Electron Microprobe Laboratory

Department Core Facilities

- Electrical Engineering Machine Shop
- Electron Microprobe Laboratory
- Electronic Materials Characterization Center
- Geosciences Remote Sensing (GeoRS) Facility
- ICP Analytical Research Laboratories
- Laser Ablation Multi-collector ICP-MS & Geochemistry Laboratory
- Mass Spectrometry Laboratory
- Physics Machine Shop
- Thermal Ionization Mass Spectrometer (TIMS) Laboratory
- X-Ray Core Facility

Creating/Contributing to a Core

UH Division of Research

www.uh.edu/research/about/core-facilities/

Research Core Facilities

713-743-9201

Business Operations

- Oversees all financial, human resources and payroll services for the Division of Research and University-level research organizations
 - New faculty startup allocations
 - Cost share and grant match
 - Internal award allocations

Contact DOR Research Administration



Cris Milligan
Assistant Vice President,
Research Administration
cmilligan@uh.edu
713-743-9201



Evan McWhirter
Systems Administrator 1
eimcwhirter@uh.edu
713-743-1436



Pam Muscarello
Executive Director,
Business Operations
pmuscarello@uh.edu
713-743-3515



Danny Guffey
Project Manager, Facilities
dwguffey@uh.edu
713-743-8509

Networking Break: OIPM and CIP

Compliance Oversight

Kirstin Rochford
Executive Director, ORPCC

Compliance Oversight

- Human Subjects
- Animal Research
- Conflict of Interest
- Congruency Review
- Responsible Conduct of Research

Compliance Website:

<http://www.uh.edu/research/compliance/>

Research Compliance



Used with permission from Don Mayne. Wretched Mess Research Cartoons(2009)

Human Subjects Research

The University of Houston has three Institutional Boards (IRBs) that review human subjects research.

Purpose: To safeguard the rights and welfare of all persons participating in research projects, **regardless of funding source**, at the University of Houston.

Assures review according to:

- Belmont Report - autonomy, beneficence, justice
- HHS regulations 45 CFR 46 and subparts B, C, D
- FDA regulations – drugs, devices, biologics
- Other regulatory requirements (HIPAA, FERPA)

IRB meets monthly; exempt and expedited protocols reviewed on a rolling basis

Institutional Review Boards

IRB Committee 1

Responsible for the full review of human subjects research protocols for all colleges except

- C.T. Bauer School of Business
- College of the Arts
- College of Liberal Arts and Social Sciences (CLASS).
 - Exception: The HHP Department of CLASS submits to IRB1; all FDA-regulated research is also reviewed by IRB 1, regardless of college.

IRB Committee 2

Responsible for the full review of human subjects research protocols for the C.T. Bauer School of Business , College of the Arts, and CLASS (except HHP). IRB 2 does not review FDA-regulated research.

IRB Committee 3

Reviews all student-led human subjects research.

New Online IRB Submission System



Linked through Access UH and
www.uh.edu/research

Training materials:

<http://www.uh.edu/research/compliance/icon/IRB/training/>

Allow time for ancillary reviews prior to submission:

PI → Dean or Chair (plus faculty sponsor if student) → submit to IRB

IRB Information

Consult the IRB website for:

- Submission deadlines and meeting dates
- Templates and submission guidance (templates and SOPs also located in ICON)
- Training requirements
- ClinicalTrials.gov registration

IRB Questions?

(713) 743-9204

CPHS@central.uh.edu

The IRB office is also available for:

- Pre-review consultations
- Student office hours
- In-person training for departments and student research methods courses

Animals in Research

The UH Institutional Animal Care and Use Committee (IACUC), in conjunction with UH Animal Care Operations (ACO), assures compliance with:

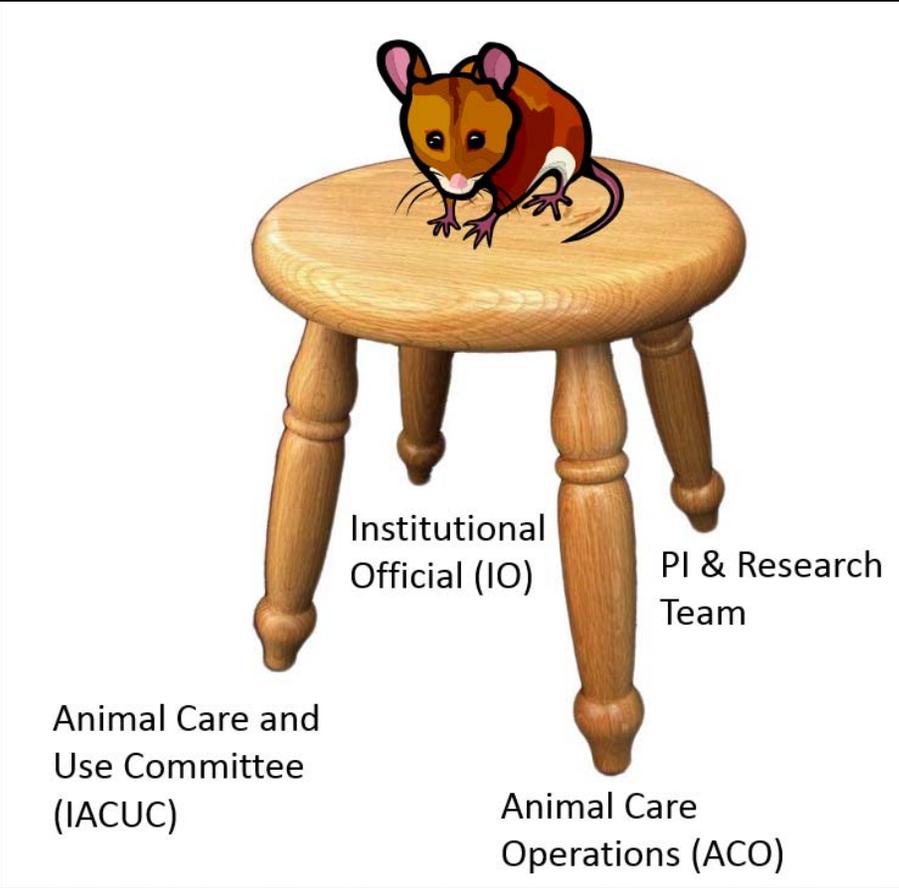
- Public Health Service (PHS) Policy and *the Guide*¹
- Animal Welfare Act/Animal Welfare Regulations (USDA)
- Required semi-annual inspections
- AAALAC accreditation requirements



<http://grants.nih.gov/grants/olaw/guide-for-the-care-and-use-of-laboratory-animals.pdf>

1

UH Animal Care and Use Program



IACUC Protocol Submissions

- Protocol submission: through
- IACUC meets monthly



- Consult the IACUC website for:

- Submission deadlines and meeting dates
- ICON training materials
- Policies and guidance
- Forms
- Reporting concerns
- Training requirements

IACUC Questions?
(713) 743-9252
IACUC@central.uh.edu

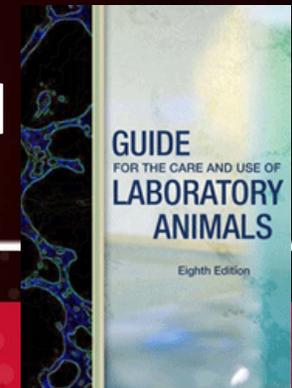
- The IACUC Veterinarian pre-reviews all protocols and is available for consultation on procedures, anesthetics, analgesics, etc.
- The IACUC office provides in-person protocol submission training for departments and research teams upon request

Semi-Annual Inspections and Post-Approval Monitoring

- In addition to a full evaluation of the animal care and use program, all facilities where animals are used and housed are physically inspected by the IACUC every 6 months (March/Sept)
- Full list of inspection requirements can be found here:

<http://grants.nih.gov/grants/olaw/sampledoc/checklist.htm>

- Post-approval monitoring may be conducted during the inspection or independently



IACUC and IRB Review Outcomes

- Approved



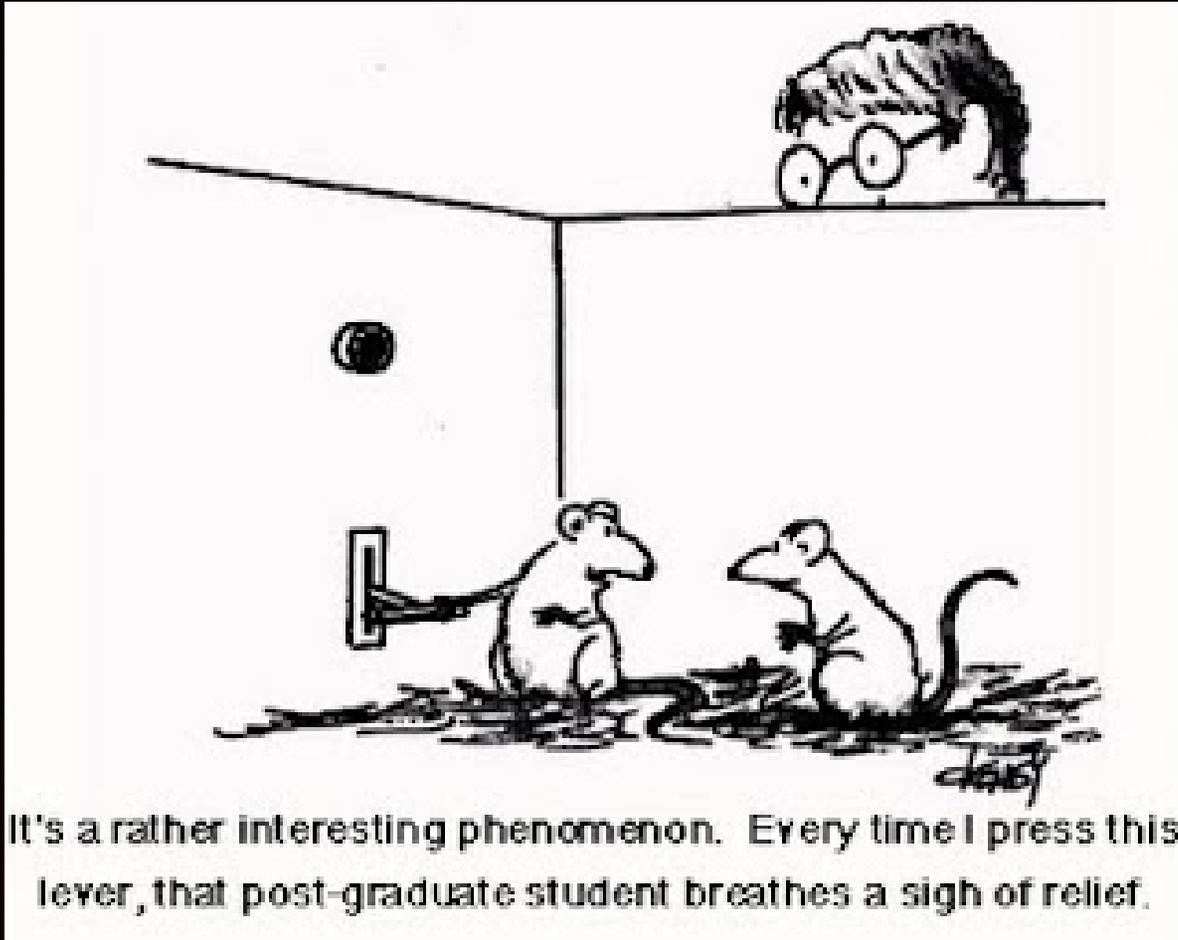
Letters go out
within 8 business
days from the
meeting date

- **Modifications Needed to Secure Approval**
Administrative review of minor modifications
- **Withhold Approval/Deferred**
Significant issues - back to full committee
- **Disapproved**
Requires significant redesign – or not approvable

IACUC and IRB Required Submissions After Approval

- Annual Review (IACUC requires *de novo* resubmission every 3 years).
 - All research must stop should approval expire; no wiggle room.
- Modifications, including new research personnel
- Unanticipated Problems or Research Outcomes
- Study Closure

Human or Animal Research?



Conflict of Interest

- A conflict of interest often arises out of the fact that a mission of the University is to promote public good by fostering the transfer of knowledge gained through university research and scholarship to the private sector.
- Such a conflict is not inherently “bad” - but does require transparency and management to maintain the integrity of the research.

Conflict of Interest

- FCOI certifications are required annually for all **Investigators**. (October 1 for current fiscal year).
 - **Investigator**: the Project Director or Principal Investigator, Co-Investigators, and any other persons, regardless of title or position, who are responsible for the design, conduct, or reporting of proposed or funded research activities.

Submission is on adobe forms, uploaded to RD2K

Check with Department Business Administrator

January 2018: transitioning to



- COI information will also be checked for all human subjects protocols (regardless of funding)

Conflict of Interest

Compliance Guidance

- Principal Investigators, Co-investigators, and key personnel listed on a proposal always meet this threshold
- Other positions (for example: study coordinators, statisticians, and non-paid personnel) may also meet this threshold based on their role in the research.
- If you are a collaborator or sub-recipient/subcontractor engaged in research awarded to another institution, certification under the UH policy is required.

Conflict of Interest Process

- Policy, forms, and detailed instructions are available on the [COI website](#)
- Certification form – complete checkboxes regarding significant financial interests (SFIs)
- If any are checked “yes,” more detailed information is required using the appropriate disclosure form(s)
- Signatures required – typically Dean/Chair
- The UH COI Committee meets monthly to review disclosures. The Committee advises the VP for Research on conflicts that require a management plan, and works with the investigator, Department and College to ensure that an approved plan (including monitoring of the plan as applicable) is in place.

Updating COI Documents

- Updated certifications/disclosures are required:

- Annually
- Within 30 days of a new significant financial interest
- At the time of proposal submission:

For each funding opportunity, financial interests must be reconsidered with the proposed research in mind. If a potential conflict exists, an updated disclosure must be provided to the COI office for review.

- PHS investigators must disclose 3rd party sponsored travel within 30 days of return

COI Questions?

(713) 743-9252

COI@central.uh.edu

Training

- **Human Subjects Research**

- CITI online training – valid for 3 years
- Faculty sponsors for student research must also complete CITI

- **Animal Research**

- IACUC: CITI online training – valid for 3 years
- ACO: Occupational Health/Facility training (required for access to animal areas)
- Other trainings as necessary based on protocol (ex: isoflurane)

- **Conflict of Interest**

- CITI training for Public Health Service-funded research (ex: NIH) – valid for 4 years

Grant Congruency Review

- All funded projects (grants and contracts) involving, or appearing to involve, research with animals, human subjects, or biohazardous/radioactive materials will be reviewed for congruency with approved committee protocols. This includes internal awards.
- All research procedures outlined in the grant/contract must be covered in the approved protocol(s) and all oversight committee approvals must be secured **prior to the release of research funds.**
- Congruency reviews are also conducted for Material Transfer Agreements (MTAs) and Data Use Agreements.

Grant Congruency Review

Recommendation for most efficient review:

- If you receive a fundable score on your proposal:
 - Move forward with submitting committee applications (IRB, IACUC, Safety) as soon as possible. A pre-review service is available prior to protocol submission.
 - Request compliance review by contacting the email address below (this will save significant time and avoid delays in the release of research funds).

**Grant Congruency
Questions?**

(713) 743-9252

GRC@central.uh.edu

Responsible Conduct of Research

UH is a Tier One Research University
...with a matching ethical research culture

- Conflict of interest
- Human subjects, animal, and safe laboratory practices
- Mentor/mentee responsibilities and relationships
- Collaborative research
- Peer review
- Data acquisition, management, sharing and ownership
- Research misconduct
- Responsible authorship and publication
- Scientist as a responsible member of society

Responsible Conduct of Research

The screenshot shows a web browser displaying the University of Houston Research website. The page title is "Responsible Conduct of Research (RCR)". The navigation menu includes "About", "Funding Ops", "Sponsored Projects", "Compliance", "Intellectual Property", "Resources", and "News". The breadcrumb trail is "UH Home / Division of Research / Compliance / Responsible Conduct of Research".

COMPLIANCE

- Human Subjects/CPHS
- Animal Subjects/IACUC
- Conflict of Interest Certification
- Data Management Plan
- Effort Reporting
- Export Controls
- Research Congruency Review
- Responsible Conduct of Research**
 - Responsible Conduct of Research (RCR) Policy
 - RCR Recommended Matrix
 - UH On-Campus Resources
 - RCR Additional Resources
 - RCR FAQs
 - RCR Training Log

CONTACT US

Kirstin Rochford
Director, Office of Research Policies,
Compliance and Committees
Division of Research

Responsible Conduct of Research (RCR)

The University of Houston is committed to supporting responsible and ethical conduct of research and scholarship among its faculty, staff and students. Responsible conduct of research should foster a climate of intellectual honesty and a commitment to ethical responsibilities by academia. All members of the University community share responsibility for developing and maintaining standards to assure ethical conduct of research and detection of abuse of these standards.

The University of Houston is committed to maintaining a research environment that promotes attention to the highest ethical standards for all sponsored and non-sponsored research. However, awards supported by both the National Science Foundation (NSF) as well as the National Institutes of Health (NIH) are required to comply with specific requirements to ensure appropriate training in the responsible conduct of research.

- Responsible Conduct of Research (RCR) Policy
- Responsible Conduct of Research (RCR) Recommended Matrix
- UH On-Campus Resources
- Additional Online Resources
- Frequently Asked Questions regarding RCR Training/Education
- Instructions to Access CITI Online Training (PDF)

D., Price Research Consultant Experts
574 — Web: integrityconsultants.com

RCR Opportunities

- (1) *CITI RCR **Online Training**
- (2) *Completion of **Didactic Course**
- (3) ***Attending** seminar or panel, auditing didactic session in RCR areas
- (5) ***Teaching** single-topic course sessions, seminars, panels
- (6) **Mentoring** (as mentor OR mentee; requires documentation of content and hours)
- (7) **Other** (requires explanation and documentation of content and hours) Ex: recurrent project meetings introduced by RCR training or case studies, Independent reading of educational resources listed on RCR website)



Please contact us for questions ANY time! We are happy to work with you before and throughout the duration of your research to ensure regulatory compliance and smooth committee reviews.

Contact ORPCC



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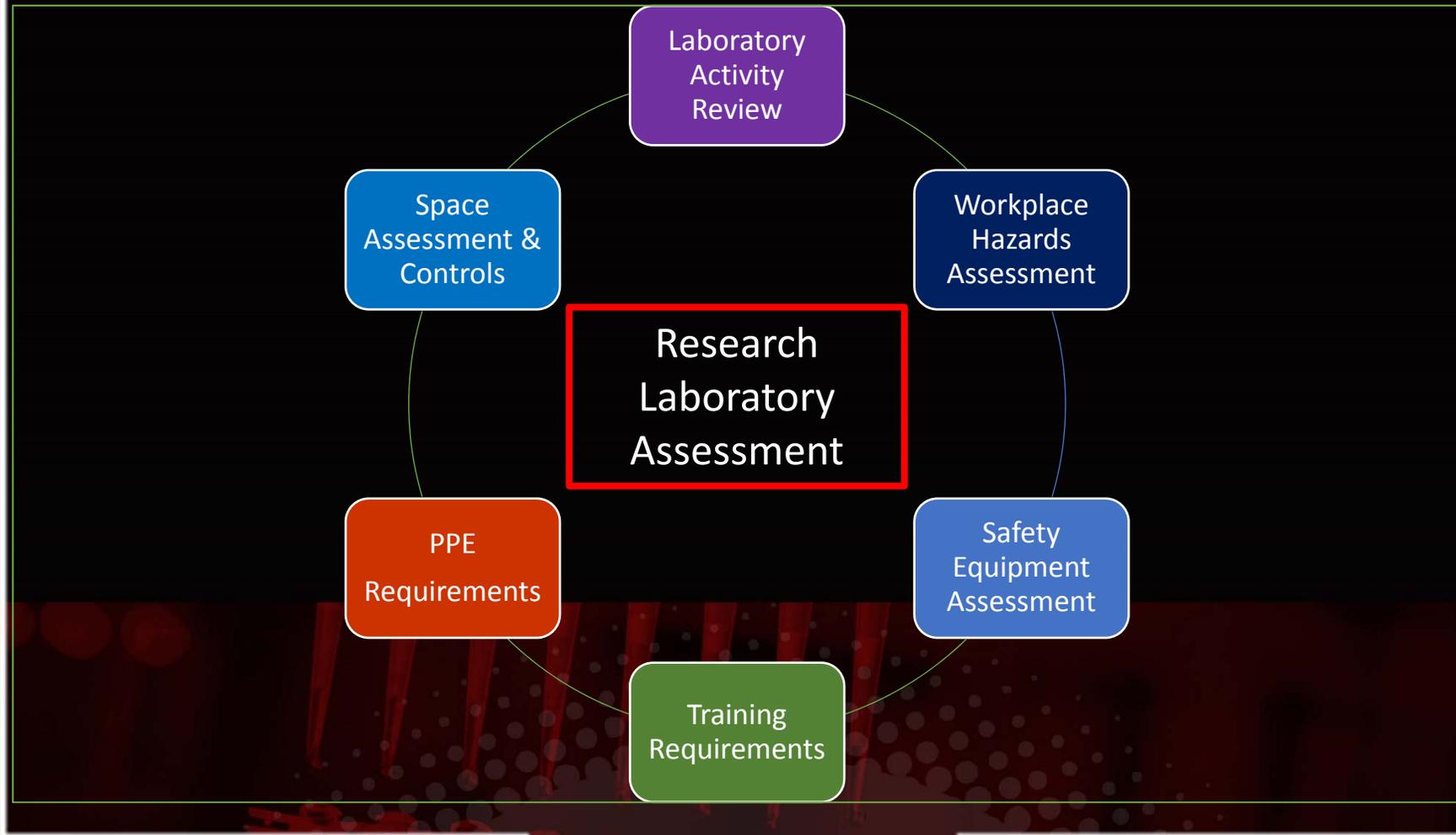
Compliance Oversight

Lisa Benford, Biological Safety Manager, EHLS
Otu Inyang, Radiation Safety Manager, EHLS

Environmental Health & Life Safety



Research Laboratory Assessment



Biological Safety Program

- Research involving biological agents including potential human, animal or plant pathogens, recombinant or synthetic nucleic acid molecules, select agents and toxins in research & teaching
- Biosafety Program Scope
 - BSL1 & BSL2, Animal Sample Registration, Human Products Registration
 - Bloodborne Pathogens Program



Biosafety Program Compliance

- The University's Institutional Biosafety Committee (IBC) and Biological Safety Officer oversee the safe use of these agents to maintain compliance with applicable regulations e.g. NIH
- Services to assist PI/research compliance:
 - MUA/Amendment
 - Lab review/set up
 - Audit, Purchase approval, Training
 - Visiting Researcher/Minors in Laboratories authorizations



Radiation Safety Program

- Radioactive materials, x-ray machines and laser devices are used for research, clinical and instruction at University of Houston.
- Radiation Safety Program Scope
 - Certificates of registration for x-ray and laser
 - Broad license for radioactive material



Radiation Safety Program Compliance

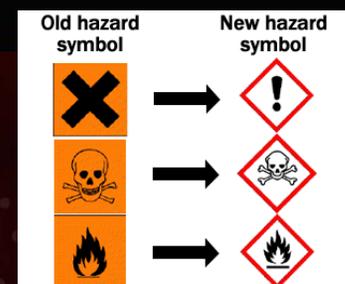
- Radiation Safety Officer & Radiation Safety Committee oversee the safe use of radiation sources/devices.
- Services supporting PI/research compliance:
 - Sublicense & subregistration application/amendment
 - Visiting Researcher/Minors in Laboratories authorization
 - New lab set up and changes review
 - Training and consultation, Purchase approvals
 - Audits, Inspections, Health Physics services



Chemical Safety Program

Services to assist PI/research compliance:

- Chemical Hygiene Plan
- Hazard Communication Training
- Visiting Researcher/Minors in Laboratories authorization
- Approve purchase of highly hazardous chemicals
- Standard Operating Procedures for Particularly Hazardous Substances (PHS)
- Audits, chemical safety and safety equipment inspections
- Chemical inventory evaluations
- Consultations



Environmental Protection Program

Environmental Compliance Program

- Hazardous waste pick-ups
- Pollution Prevention activities
- Regulatory reporting
- Air emissions standards
- Hazardous waste disposal requirements
- Certificate of Environmental Compliance review and approval



Fire & Life Safety Program

- The UH Fire Marshal's Office utilizes the following codes for compliance and enforcement:
 - NFPA 1, *Uniform Fire Code*
 - NFPA 101, *Life Safety Code*
- Training on Fire prevention
- Permitted Activities
 - Open Flame, Temporary Food Dealer, Welding/Cutting and Fire Suppression

EHLS Contacts

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Main: 713-743-5858 <http://www.uh.edu/ehls/>



Animal Care Operations

Dr. David Brammer, Executive Director,
Animal Care Operations/Chief Veterinarian

Animals in Research



- AAALAC accredited
- PHS assurance
- USDA registered and inspected
- Barrier rodent facility
- ABSL1 and ABSL2 facilities
- Animal behavior facility
- Excellence through Continuous Improvement

ACO Certifications



- 5 AALAS certified
- 3 board certified veterinarians
- 6 with ABSL certification
- 11 lean six sigma certifications



Research.uh.edu

Training

- CITI or individual species training
- Occupational Health
- Security clearance for area
- Tour of Animal facilities

Animal Protocol

- Online IACUC form
- Institutional Biosafety form

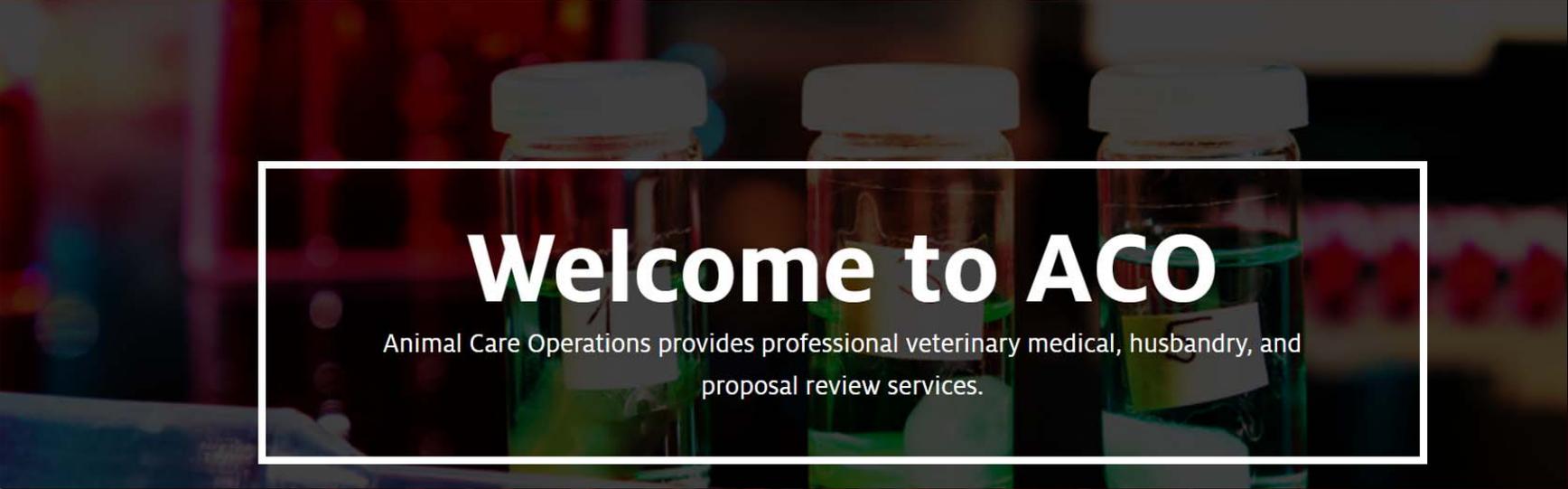
uh.edu/research

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 Login to AccessUH  Give to UH

Animal Care Operations

[Animal Orders](#) [Facility Access](#) [Training](#) [About ACO](#) [IACUC](#) [Back to DoR](#)



Welcome to ACO

Animal Care Operations provides professional veterinary medical, husbandry, and proposal review services.

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HOUSTON
DIVISION OF RESEARCH

Contact ACO



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Networking Break: ORPCC and ACO

Questions & Answers

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Thank you!

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