Surgery Research Conference

Office of Technology Development

To receive 1.0 credit for this session, text the SMS code: ZUZFEV to 414-206-1776. This code will expire in 5 days

ACCME Accreditation Statement: The Medical College of Wisconsin is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. **AMA Credit Designation Statement:** The Medical College of Wisconsin designates this live activity for a maximum of 1.0 AMA PRA Category 1 Credit™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. **Hours of Participation for Allied Health Care Professionals:** The Medical College of Wisconsin designates this activity for up to 1.0 hours of participation for continuing education for allied health professionals.
Research Highlights
Award Summary: Children’s Research Institute is pleased to announce Requests for Proposals for funds to address pediatric-focused research and stimulate a team approach to science. This year, the CRI is also partnering with the Herma Heart Institute and the Comprehensive Injury Center to expand child health research opportunities.

Sponsor: Children’s Research Institute
Amount: (7-10 awards) $75,000 & (1 award) $250,000
Contact: Lizzy Schneidler
LOI Due Date: July 22\textsuperscript{nd}
Application Due Date: October 7\textsuperscript{th}
Award Summary: AHW’s Call for Collaborative Research Projects for Improved Health aims to foster new or enhanced collaborations along the T0-T5 spectrum to support research aligned with AHW’s three focus areas of heart health, healthy minds, and/or cancer. This opportunity is open to full-time or full-professional effort MCW faculty within the MCW School of Medicine, and projects should be feasible to complete within a 24-month period.

Sponsor: AHW  
Amount: (6 awards) $250,000  
Contact: Lizzy Schneidler  
LOI Due Date: August 19th by 5:00pm  
GCO Application Due Date: January 6th
Call for Abstracts

The Wisconsin Surgical Society
November 8-9, 2019
Kohler, WI

Submission Deadline:
Thursday, August, 22, 2019

15th Annual Academic Surgical Congress
February 4-6, 2020
Orlando, Florida

Submission Deadline:
Friday, August, 23, 2019 @ 11:59 PM EST
Congratulations 2019 We Care Awardees

Johnny Hong, MD
Maggie Z. Schultz Award
$150,000/2 years
The Effects of Ischemia and Reperfusion Injury in Liver Transplantation on Epigenetic Profiles: A Pilot Study Using a Porcine Experimental Model

Terri deRoon-Cassini, MS, PhD
$100,000/2 years
Maternal Stress and Resilience in Prenatal Diagnosis of Fetal Anomalies
Clinical Research Power Lunch:
Audit Prep 101:
The Busy Clinical Research Professional's Guide to Audit Prep and CAPA Plans

Tuesday, July 23rd
11:45 am Lunch
12:00-1:00 pm Presentation
Alumni Center
Research

Modeling Post-Translational Modifications and Cancer-Associated Mutations that Impact the Heterochromatin Protein 1alpha-Importin Alpha Heterodimers. *Proteins.* (Zimmermann MT, Williams MM, Klee EW, Lomberk GA, Urrutia R)


Pediatric Surgery


Redox Signaling in Sickle Cell Disease. *Current Opinion in Physiology.* (Nolfi-Donegan D, Pradhan-Sundd T, Pritchard KA Jr, Hillery CA)

General Surgery


Publications

Surgical Oncology

Breast Cancer in Women Aged 80 Years or Older: An Analysis of Treatment Patterns and Disease Outcomes. *Clinical Breast Cancer.* (Ferrigni E, Bergom C, Yin Z, Szabo A, Kong AL)


Surgery in the Older Patient with Breast Cancer. *Current Oncology Reports.* (Frebault J, Bergom C & Kong AL)

Pediatric Congenital Cardiac Surgery

Next Month:

Biostatistical Support for the Department of Surgery

Aniko Szabo, PhD
Associate Professor
Biostatistics Consulting Service

August 14th, 2019
1st Floor HUB (A1015/1035)
5:00-6:00pm

Please note the ROOM CHANGE
OFFICE OF TECHNOLOGY DEVELOPMENT: OVERVIEW AND UPDATE, JULY 10, 2019

Department of Surgery, MCW

Presented by Kevin Boggs, MBA, Ph.D., Director, and Kalpa Vithalani, Ph.D., Assistant Director, OTD
AGENDA

- Some Basic Concepts
- Technology Transfer Process Overview
- What is Patentable?/What is Not?
- A Story
- How We Engage with Researchers and Community
- Why Work with OTD
Mission

• To facilitate the transfer of technology generated from research & clinical practices at MCW into commercial products

Patents to Patients®
SOME BASICS

• What is Intellectual Property?
  • Government-Issued property rights
  • Protects products of the mind
  • Country-specific
  • Examples include patents and copyright
SOME BASICS

• Patents
  • Protects inventions
  • Novel, useful, non-obvious
  • Novel molecules, methods, devices
  • 20 years from filing date
SOME BASICS

• Copyright
  • Protects creative works
  • Software, instructional material
  • Very long-lived protection (thank Sonny Bono)
SOME BASICS

• What is a license?
  • A contract that grants rights from an IP owner (Licensor) to another party (Licensee)
  • Licensee pays fees, royalties
  • Licensee agrees to develop and sell products
THE TECH TRANSFER PROCESS
TECH TRANSFER PROCESS

• Invention Intake, Evaluate, IP Filing Decision
• Find & Recruit Licensees
• Negotiate the Deal
• Monitor Licensee Compliance
INTAKE, EVALUATE, FILING DECISION

Invention Disclosure to OTD

Market?

IP Review

Stage of Development

Commercial Potential?


Premature: hold for data

No: Revert

Yes

Premature: hold for data

No

Revert
FIND AND RECRUIT LICENSEES: WHERE & HOW WE FIND LICENSEES

Inventors (aka, you)

Our Networks

Conferences

Targeted Marketing
FIND AND RECRUIT LICENSEES: COMMUNICATING VALUE

Patent Pending

IP

Data

Market Demand
FIND & RECRUIT LICENSEES:
CRITERIA FOR CHOOSING LICENSEES

- Experience with early-stage technology
- Fits company product pipeline
- Reputable & Professional
- Startup: required to recruit fundable CEO
NEGOTIATE THE DEAL

- Start with our pre-approved template
- Refer to licensing survey data
- Understand relative value of MCW’s IP in the end-product
- Understand the market (profit margins, product life cycles, regulatory, etc.)
- Scope (e.g., exclusive vs. non-exclusive, field of use)
MONITOR LICENSEE FINANCIAL COMPLIANCE

Why We Monitor

- Federal mandate to bring NIH-funded technologies to market & report progress
- Ensure all our technology is being developed, marketed, sold
- Ensure we are receiving correct payments
- Learn what works

How We Monitor

- Review progress reports from Licensee; reply to indicate we are engaged
- Exert right to request financial audits
- Review publicly available material (is it consistent with reports?)
TECH TRANSFER PROCESS TIME LINE

- Invention Intake & Meeting: 2 Weeks
- Evaluate: 4 Weeks
- License: 6 - 12 Months
- Patent Prosecution: 3 - 5 Years
- Market: 6 - 24 Months
- R&D & Sales by Industry Partners: 5 - 20 Years

Medical College of Wisconsin CONFIDENTIAL. Do not share.
SOME PATENTABLE INVENTIONS
WHAT SHOULD BE DISCLOSED?

- Novel Molecules or combinations
- Small Molecules
- Engineered biomolecules
- Surprisingly effective combinations of (new or known) molecules
- New and surprising uses for known molecules
WHAT SHOULD BE DISCLOSED?

- Devices or Materials
- Therapeutic
- Diagnostic
- Surgical
- Software developed at MCW
- Databases
- Processes, methods
SOME THINGS THAT ARE NOT PATENTABLE

- Naturally-occurring, unmodified molecules*
- Proteins
- Genes
- RNA structures
- Drug Targets
- Metabolic intermediates
- Drug Metabolites
- Pathways
- Metabolic
- Signaling

*Even if isolated and purified
A STORY
FACULTY AND COMMUNITY ENGAGEMENT
FACULTY ENGAGEMENT

- Faculty have asked for:
  - Focused, value-added feedback from diverse advisors
  - Exposure to diverse experts
  - Predictable processes
  - A higher share of licensing revenue (Done!)
FACULTY ENGAGEMENT

Please tell us how we can improve our services.
COMMUNITY ENGAGEMENT

- What our key community members have asked for:
  - Exposure to the latest technologies
  - Focus on where they add value
  - Networking with like-minded people
  - Brief and focused meetings
WHY DISCLOSE INVENTIONS?

- Opportunity for your work to have an additional positive impact
- Inventors and their departments share net revenue
  - 35% to inventors (this is new)
  - 20% to their departments
  - 45% retained by MCW
- Opportunity to get market/industry feedback
- Potential to attract sponsored research $$
- Compliant with MCW policy
WHEN IN DOUBT

Contact us

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