Objectives

- Identify starting opportunities
- Describe training awards
- Identify later-stage research grants
Internal Funding

- Pilot awards
- Career development awards
- Bridging awards
Internal Funding

Start your funding search by reviewing the many internal funding opportunities offered by the University of Michigan.

- Limited Submission Opportunities
- Faculty & Staff Funding Awards
- Pilot & Feasibility Funding
EM Foundations

- Pilot awards, 2-year career development awards, mid-career, education
- SAEMF – August 1, 2019
- EMF – February 2020
Foundations

Vitamin Treatment For Sepsis Is Put To The Test

The Marcus Foundation
Advancing Sustainability and Enhancing Community Food Resources

*** The Marcus Foundation has not contributed to any political campaign. ***

DeLaney Community Farm – Notes on a Marcus Foundation Grantee
A place of herbs, beeives, perennial flowers and organic food crops, it is surrounded by Aurora City Center, busy streets, and strip malls. On this 150-acre farm (32 crops, 139 varieties, 136 kinds of produce) the staff has created not only a sustainable farm that models best practices but also a multicultural community that provides healthy food access to a wide variety of members.
Industry funding

Pros: less formal, less competitive, can build long-term relationships

Cons: often smaller grants, often “strings attached,” conflict of interest issues, less control

Seek industry partners relevant to your topic:
- ultrasound, biomarkers, devices
- drugs for new indications
Industry Funding

- AstraZeneca
  - $$ to test new hyperkalemia drug in ED
- FOCUS Foundation
  - $$ to start robust HCV and HIV linkage to care program
Challenges: right pitch, negotiating contracts, managing relationship with company
FOCUS ON YOUR GOALS. EVERYTHING ELSE IS JUST A DISTRACTION.
National Institutes Of Health

National Heart Lung and Blood Institute

National Institute of General Medical Sciences

National Institute of Allergy and Infectious Diseases

National Institute on Aging

National Institute of Neurological Disorders and Stroke
FIGURE 2
NIH funding, FY 1950–2019
in thousands of constant 2013 BRDPI adjusted dollars

$60,000,000
$50,000,000
$40,000,000
$30,000,000
$20,000,000
$10,000,000
$0


$27,737,093
$58,159,195

Source: NIH funding figures through FY 2014 are based on total budget authority. Projected NIH funding figures for FY 2015 through FY 2019 are based on data from the Congressional Budget Office.

*Biomedical Research and Development Price Index
NIH Institutes

Potential EM topics of interest / funded researchers

M, Abir (Mich), B. Sun (Penn), R. E. Choo (OHSU), M. Cerda (NYU)

M. Shah (Wisconsin), J. Caterino (OSU)

O. Adeoye (Cinci), N. Gentile (Temple)

https://projectreporter.nih.gov/reporter.cfm
NIH: Training grants

T32 programs - provides 1-2 years of fellowship training at a specific institution, often coupled with a Masters degree or other certificate course

K12 programs – similar to T32s, also institution specific

K12 program in emergency care – 4 institutions currently hold:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Mentors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanderbilt</td>
<td>A Storrow, T Wang</td>
</tr>
<tr>
<td>OHSU</td>
<td>C Newgard, C Morris</td>
</tr>
<tr>
<td>Michigan</td>
<td>R Neumar, M Pinsky</td>
</tr>
<tr>
<td>Indiana</td>
<td>J Kline, K Kroenke</td>
</tr>
</tbody>
</table>
Career Development Awards

- K23 – mentored patient-oriented research
- K08 – mentored clinician scientist
- 75% protected time + up to $50k research support
- 3-5 years
2018 K23 Success Rate
NIH: R-Awards

- **R01** – 250k-500k per year typical, 3-5 years
- **R03** – small grant, 1 year, prelim data
- **R18** – “R01 size”, dissemination/implementation
- **R24** – infrastructure, resource development
- **R34** – clinical trial planning grant (1-2 years)
- **R21** – exploratory, 2 year, 275k total
Type 1 Applications, Successes and Success Rates over Time

Number (10,000s) or Percent

Fiscal Year

Source: Data drawn from frozen success rate file.
New (Type 1) R01 and R21 Success Rates over Time
Where to start

Find the “RFA” (request for applications) or the “PA” (program announcement) –

Each RFA or PA has a number; Key for quick reference

https://grants.nih.gov/grants/guide/listserv.htm
Agency for Healthcare Research and Quality

- Health services research
- Not NIH but shares NIH mechanisms
- K and R series awards
  - C. Newgard (OHSU), Keith Kocher (UM), Nick Mohr (Iowa), Peter Pang (IU), Jane Brice (UNC), Kristin Rising (Jefferson)

Didactic: 8:00 AM
Thursday
Grand Ballroom D
Must have military orientation to research aims (brain trauma, hemorrhage control, field diagnostics, etc)
DOD

- Investigator Initiated: annual topic areas of focus

- Examples
  - John Holcomb – next-gen REBOA
  - Mohamad Tiba – non-invasive cerebrovascular monitoring
  - Norman Paradis – multiplex system for early warning of shock in trauma

https://cdmrp.army.mil/funding/prmrp
Patient Centered Outcomes Research Institute

Quasi-governmental organization (funded via ARRA, but doesn’t report to governmental entity)

Changing grant portfolio, that includes:
Dissemination and implementation grants
Large clinical trial awards

B. Abella (Penn), Z Meisel (Penn),
E. Hess (Alabama), Donna Carden (Florida)
Resources

- NIH Matchmaker and Reporter
  - [https://projectreporter.nih.gov/reporter.cfm](https://projectreporter.nih.gov/reporter.cfm)
- Pivot (institutional)
- NIH LRP Program