ACADEMIC ENGAGEMENT AND STUDENT SUPPORT PROGRAMS

GT1000 & GT2000
PROJECT ONE
STUDENT INNOVATION
LIVING LEARNING COMMUNITIES
UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM
William York
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Biomedical Engineering
Minor in Pre-Health & Research option
Mediating MSC exosome production using
Bacterial Sphingomyelinase in PEG-MAL hydrogels

Kent Yamamoto
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Biomedical Engineering
Minor in Pre-Health & Robotics
Neuroendoscopic surgical robot design and
pre-clinical evaluation with neurosurgeon collaborators
WHO ARE WE?

Purpose
• To help students find research opportunities, improve communication skills, & gain access to valuable resources for undergraduate research
• To communicate that research is for everyone & anyone
• To encourage multidisciplinary work and involvement

URA Website
http://urop.gatech.edu/content/undergraduate-research-ambassadors
WHAT IS RESEARCH?

Communicative
Collaborative
Innovative
Inclusive
Contributive
Advancing
Observation
Discovery
Peer-reviewed
Knowledge
Collective
Network
Skill sets
Original
Academia
Creative
Analyzing
WHY DO RESEARCH
STUDENT ENROLLMENT IN UNDERGRADUATE RESEARCH

3184 STUDENTS IN 17-18
Howard TO GET INVOLVED

➢ URA OFFICE HOURS
  Offered virtually every day
  (sign up our website!)

➢ URA PROGRAMS &
  UROP GRANTS

➢ STUDENT NETWORKING
  Professors, classes, advisors,
  etc.
RESEARCH CLASSES

› RESEARCH FOR CREDIT
  2699 / 4699

› RESEARCH FOR PAY
  Research Assistantship
  (free audit class)
  2698 / 4698
RESEARCH OPTION

▷ REQUIREMENTS

• Research proposal / thesis
• Minimum 9 hours research
• Proposal & thesis writing courses (LMC 4701, LMC 4702)
• Available in 5 colleges and 24 majors
RESEARCH FUNDING

▷ PURA SALARY AWARDS
  Stipend for semester research project – $1,500

▷ PURA TRAVEL AWARDS
  Up to $1,000 to present at a professional conference
EVENTS

➤ **URA & UROP RESEARCH FAIR**
  Fall & Spring Undergraduate Research Fair

➤ **UROP SYMPOSIUM**
  Annual Undergraduate Research Spring Symposium

➤ **GT1000**
  Undergraduate Research & Innovation

➤ **URA WORKSHOPS**
  What to Expect in Research, Summer Research Opportunities, Pre-Health & Pre-Grad Coffee Hour, How to Communicate Your Research

➤ **UROP WORKSHOPS**
  PURA Proposal Workshop, Direct Connections Panel, Panels, etc.
LEAD
Develop workshops and information sessions to present on undergraduate research

MENTOR
Mentor students to get more involved through Office Hours, the UROP website, and student networks

Office Hours
Help students be connected with research opportunities and be involved in undergraduate research
URA EVENTS

RESEARCH COFFEE HOUR
PRE-HEALTH & PRE-GRAD

Date: 10/08/2020
Time: 11AM-12PM

RESEARCH AMBASSADOR APPLICATIONS ARE OPEN!

APPLY NOW!
BENEFITS OF RESEARCH IN PRE-HEALTH

➢ **Networking**
  Research can connect you to academic professionals, graduate students, and other undergraduates who can assist you with graduate/medical school applications or career building.

➢ **Skills**
  Develop a competitive skill set that helps you grow as a scientist and can be mentioned in applications and interviews.

➢ **Interests**
  Undergraduate research can help you refine your interests if you plan on pursuing a career in health-related academia (epidemiology, bioinformatics, etc.)
RESEARCH PROGRAMS IN MEDICINE

› **Medical School (M.D.)**
  Most medical schools encourage at least 1 year of research during medical school

› **Medical school (M.D. / Ph.D)**
  Requires at least 3 years of medical research to receive Ph.D

› **Advisors**
  Feel free to schedule an appointment with the pre-health advisors to get more information about research in other medical degrees!
TYPES OF RESEARCH IN MEDICINE

➢ **Experimental Research**
  Animal study, Cell study, Biochemistry, Genetic engineering, Material development, Pharmacogenetics, Methods development

➢ **Clinical Research**
  Interventional/Clinical trials, Observational studies (case reports, diagnostic studies, prognostic studies, therapy studies)

➢ **Epidemiological Research**
  Surveillance (monitoring), Ecological, Cohort studies, Analyses with registry data, Ecological studies, Sociological research
SKILLS TO GAIN FROM RESEARCH

- **Teamwork**
  Work collaboratively with others to achieve shared goals

- **Oral Communication**
  Effectively conveys information to others in an understandable manner

- **Reliability and Dependability**
  Consistently fulfills obligations in a timely and satisfactory manner

- **Capacity for Improvement**
  Continuously improve your knowledge of skills and concepts

- **Critical Thinking and Scientific Inquiry**
  Integrate and synthesize information using the scientific process
NEED HELP? COME TO OFFICE HOURS!

➢ Contacting Faculty & Labs
   Help with writing emails and applications for undergraduate research

➢ Interested in joining a lab?
   Come talk to us! We have some opportunities for undergraduate research!

➢ Writing
   Help with writing research proposals, grants, and/or academic papers
INTERESTED IN UNDERGRADUATE RESEARCH?

JOIN THE UROP MAILING LIST

Be the first to hear about research opportunities, program deadlines, and more.

TEXT UROP TO 42828

OR VISIT goo.gl/Wpt6ms