

**Topic: Student Research Presentations**

Today Upperclassmen of ACS gave short presentations of the research they are involved in. Want to get into research? Here are the ways some of our members got into their labs.

* Rosi Group - Ryan Racioppo
  + Process of starting research:
    - Do your research on what the department you want to do research for is doing.
    - Contact a pi
    - Set a meeting
  + Metal-organic frameworks (MOFs)
    - Assembly of organic linkers- take metal nodes creating an extended framework of these molecules.
    - Called Reticular chemistry - linkage of molecular building units to form extended crystalline structures using strong bonds.
    - Characteristics
      * High surface area
      * Volumes
    - Synthesis and characterization
      * Worked with a graduate student
      * Make progress towards publication
      * Present data at group meeting.
    - Independent research project
      * Studies structural topology of MOFs
* PEACE lab Piper read
  + Pi: Reem Hannun
  + Piper got into research by emailing the PI
  + Research focuses on atmosphere biosphere interactions and the carbon cycle.
  + Personal project:
    - Agricultural and prescribed burns- can trace chemical reactions to see that they produce ozone
      * Use conc measurements organic volatile substances and checks how much ozone is produced in these fires
    - Can work from home: using MATLAB and FOAM
  + Other projects:
    - AEROMMA
      * Project involving 150 flight hours collecting vertical profiles.
    - Blue flux
      * 3 year NASA project aims to develop a database of carbon flux measurements.
* Medical chemistry and prostate cancer WIPF group - allie
  + Involves organic chemistry
    - Specifically heterocyclic chemistry
    - Synthesizing enzymatic products
    - Chancer therapeutics
    - Neurological diseases
  + Personal project- medicinal chemistry campaign treating castration resistant prostate cancer. (CRC)
  + Get to use a lot of organic synthesis techniques.
  + Important techniques and skills- purifying compounds, using TLC, creating NMR spectra.
  + A lot of opportunities to practice your presentation skills.
  + Great if you're interested in organic chemistry!!!!!
* School of medicine Department of Pharmacology and Chemical biology (Schofer group)- Beck
  + Organic synthesis and drug discovery
  + Research focuses on biological effects of biological fatty acids
  + Currently focusing on nitro oleic acid to nitro nitrate acid
    - Nitro oleic used in therapeutics
      * Showed a lot of benefits when tested on animals
    - Looking for a way to stop nitro oleic acid from being quickly metabolized
  + Try to reach out to labs that interest you.
  + It's okay to explore options to find something you enjoy.

**Attendance:**

| 9/29/2023 11:58:15 | sophie bazydola | Junior | sob50@pitt.edu |
| --- | --- | --- | --- |
| 9/29/2023 11:58:20 | Christina Raad | Junior | chr119@pitt.edu |
| 9/29/2023 11:58:27 | Allie Redhair | Junior | amr296@pitt.edu |
| 9/29/2023 11:58:27 | Lauren McNutt | Junior | lmm261@pitt.edu |
| 9/29/2023 11:58:42 | Charlie Rudolph | Junior | CFR15@pitt.edu |
| 9/29/2023 11:58:46 | Michael chipman | Freshman | MWC29@pitt.edu |
| 9/29/2023 11:59:01 | Kieran Dudek | Sophomore | kjd87@pitt.edu |
| 9/29/2023 11:59:06 | Tyrina ragsdale | Freshman | Tyr22@pitt.edu |
| 9/29/2023 11:59:48 | Dennis Skiba | Senior | Dns42@pitt.edu |
| 9/29/2023 11:59:49 | George Fritze | Senior | gwf8@pitt.edu |
| 9/29/2023 11:59:58 | Laurel Beckman | Sophomore | LEB191@pitt.edu |
| 9/29/2023 12:00:03 | McKenna Gallagher | Junior | meg196@pitt.edu |
| 9/29/2023 12:00:10 | Alex McQuain | Senior | Adm169@pitt.edu |
| 9/29/2023 12:00:31 | Don | Senior | dnt13@pitt.edu |
| 9/29/2023 12:01:04 | Olivia Wood | Sophomore | orw14@pitt.edu |
| 9/29/2023 12:01:15 | Sofia Wilson | Sophomore | sew142@pitt.edu |
| 9/29/2023 12:01:20 | Cailey Dolata | Sophomore | cad251@pitt.edu |
| 9/29/2023 12:01:21 | Mathavan Murali | Junior | Mam883@pitt.edu |
| 9/29/2023 12:01:22 | Emma Bocquillon | Sophomore | Emb309@ Pitt.edu |
| 9/29/2023 12:01:29 | Chazz Ehlis | Sophomore | Che43@pitt.edu |
| 9/29/2023 12:01:48 | Gabi Page | Sophomore | gep61@pitt.edu |
| 9/29/2023 12:01:49 | John Cicero | Freshman | jfc70@pitt.edu |
| 9/29/2023 12:02:19 | Ella Venters | Freshman | elv52@pitt.edu |
| 9/29/2023 12:02:34 | Ilana Pavolotsky | Freshman | irp25@pitt.edu |
| 9/29/2023 12:02:34 | Dylan Garagozzo | Sophomore | dpg45@pitt.edu |
| 9/29/2023 12:02:37 | Tyler Gordon | Junior | Tmg77@pitt.edu |
| 9/29/2023 12:02:46 | Lainey Kull | Junior | lrk44@pitt.edu |
| 9/29/2023 12:02:59 | Kate Castello | Senior | klc169@pitt.edu |
| 9/29/2023 12:03:04 | Rojin Mortazavi | Junior | rom133@pitt.edu |
| 9/29/2023 12:04:19 | Sophia Stallone | Sophomore | sos112@pitt.edu |
| 9/29/2023 12:43:14 | Piper Read | Senior | Per36@pitt.edu |
| 9/29/2023 12:43:31 | rithika ramanan | Sophomore | rsr52@pitt.edu |
| 9/29/2023 12:46:26 | Joy Prasch | Junior | Jcp102@pitt.edu |