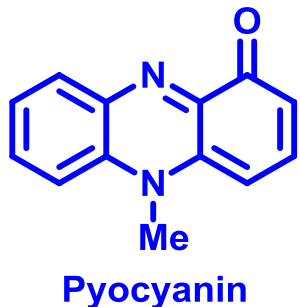
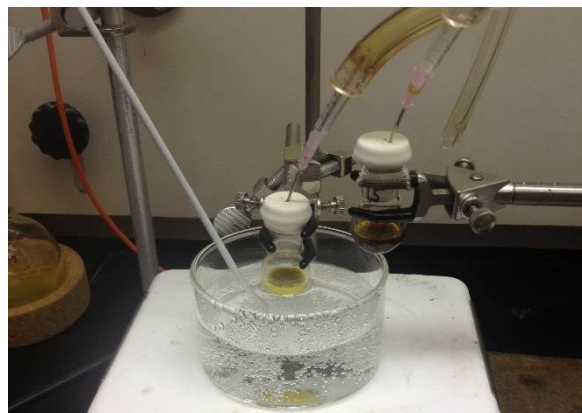


Natural Product
Inspiration

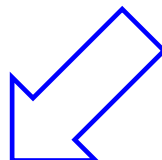


Drug Discovery

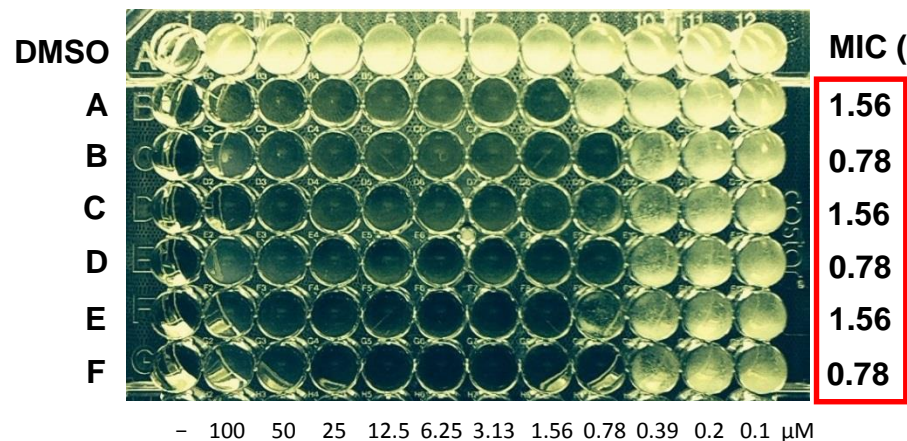


Synthesis of Novel Small
Molecule Analogues

Synthesis &
Biological Evaluation



Microdilution MIC Assay (identification of novel antibacterial agents)



Discovery of Potent
Growth Inhibitors against
Pathogenic Bacteria!



Summer 2014

Huigens Lab Wrecking Crew

Chip Norwood
(Incoming Med. Chem. Grad. Student)

Akash Basak
(Chemistry Grad. Student)

Nicholas Paciaroni
(Med. Chem. Grad. Student)

Aaron Garrison
(Med. Chem. Grad. Student)

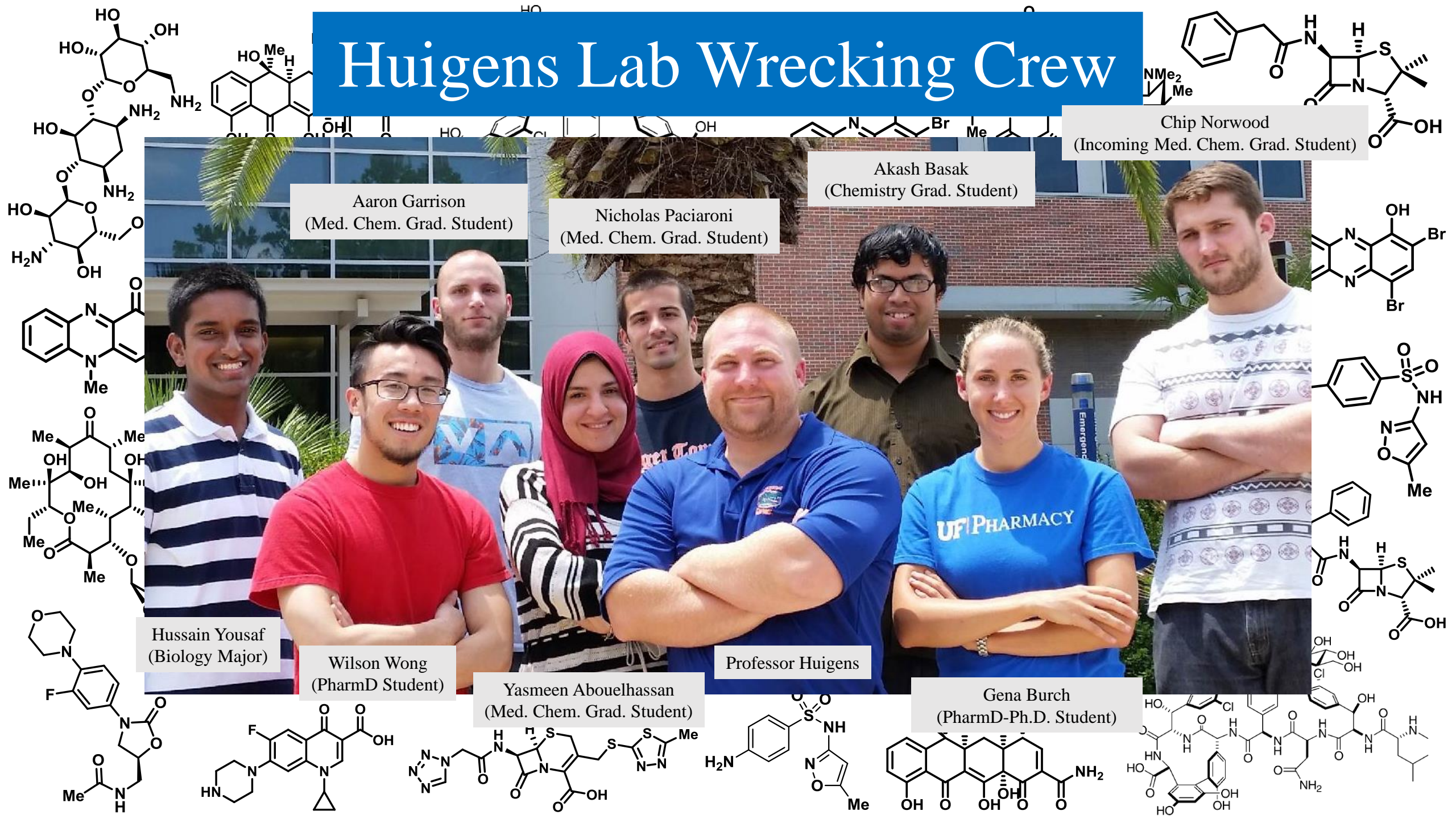
Professor Huigens

Yasmeen Abouelhassan
(Med. Chem. Grad. Student)

Wilson Wong
(PharmD Student)

Hussain Yousaf
(Biology Major)

Gena Burch
(PharmD-Ph.D. Student)



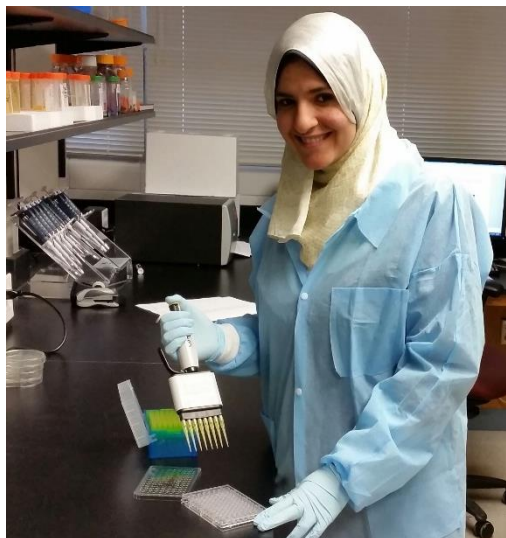
Meet The Team In Action!



Nicholas Paciaroni
Med. Chem. Grad. Student
Clemson University
B.S. Chemistry



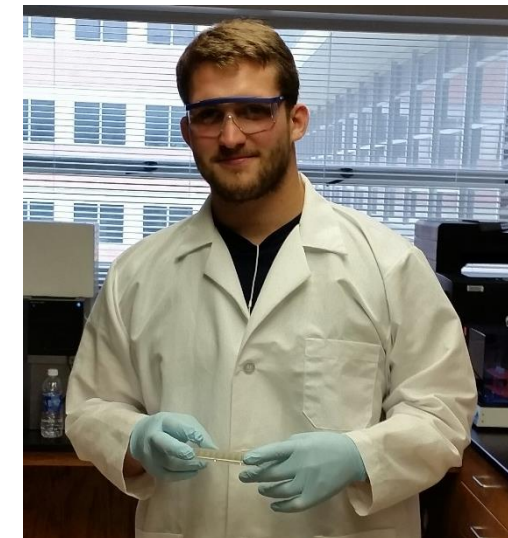
Aaron Garrison
Med. Chem. Grad. Student
University of South Florida
B.A. Biochemistry



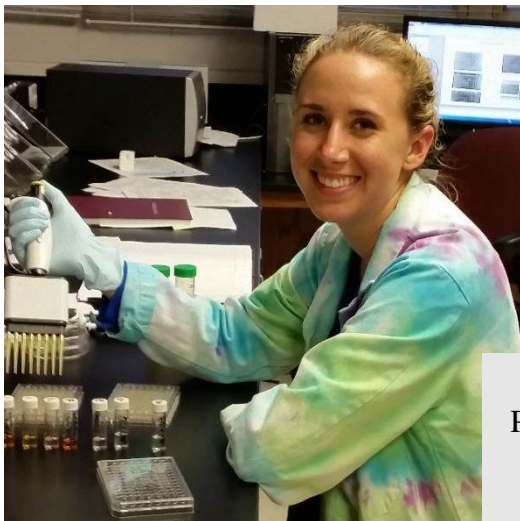
Yasmeen Abouelhassan
Med. Chem. Grad. Student
Cairo University
B.S. Pharmacy



Akash Basak
Chemistry Grad. Student
IIT Kanpur
M.S. Chemistry



Chip Norwood
Med. Chem. Grad. Student
East Tennessee State University
B.S. Chemistry



Gena Burch
PharmD/Ph.D. Student
B.S. Chemistry
Hillsdale College

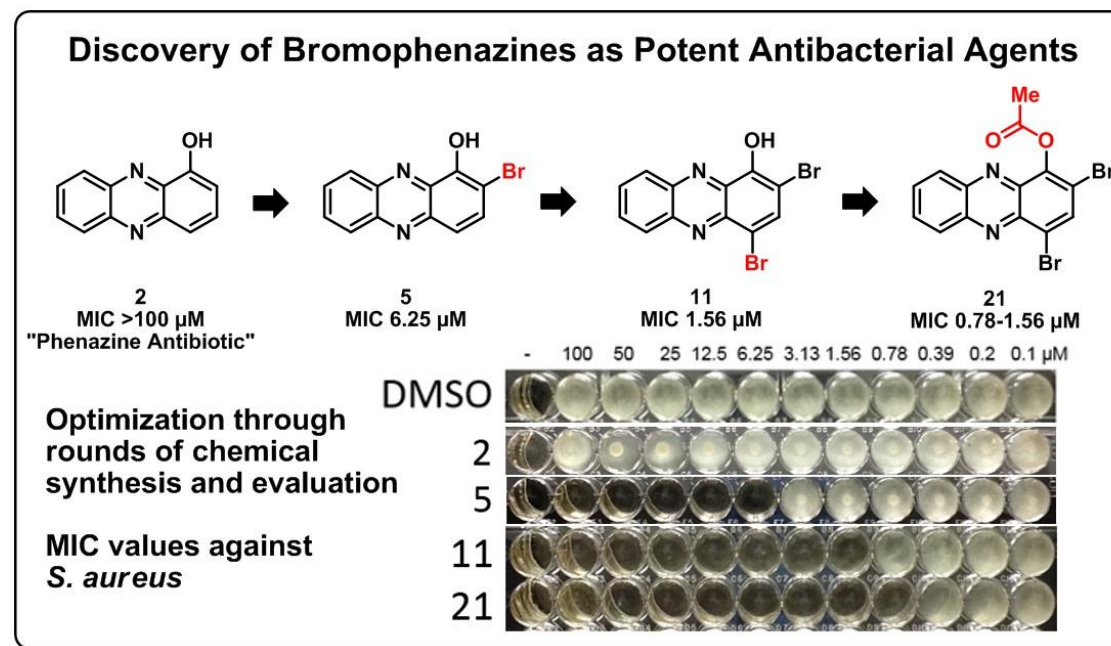


Wilson Wong
PharmD Student
B.S. Biochemistry
Florida State University



Hussain Yousaf
Biology Major
University of Florida

Discovery of New Antibacterial Agents



Borrero, N.V.; Bai, F.; Perez, C.; Duong, B.Q.; Rocca, J.R.; Jin, S.; Huigens III, R.W. "Phenazine antibiotic inspired discovery of potent bromophenazine antibacterial agents against *Staphylococcus aureus* and *Staphylococcus epidermidis*." *Org. Biomol. Chem.* **2014**, 12, 881-886.

MORE EXCITING PUBLICATIONS COMING SOON!! STAY TUNED!!

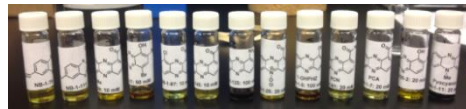
Drug Discovery of Novel Biofilm Inhibitors

Biofilm Inhibition Assay:

Remaining biofilms are stained with crystal violet.

Key for Biofilm Inhibition Assay
(biofilm formation attempted in each well):

- B. No vehicle control
- C. Vehicle control (DMSO)
- D. Novel compound 1
- E. Novel compound 2
- F. Novel compound 3
- G. Novel compound 4

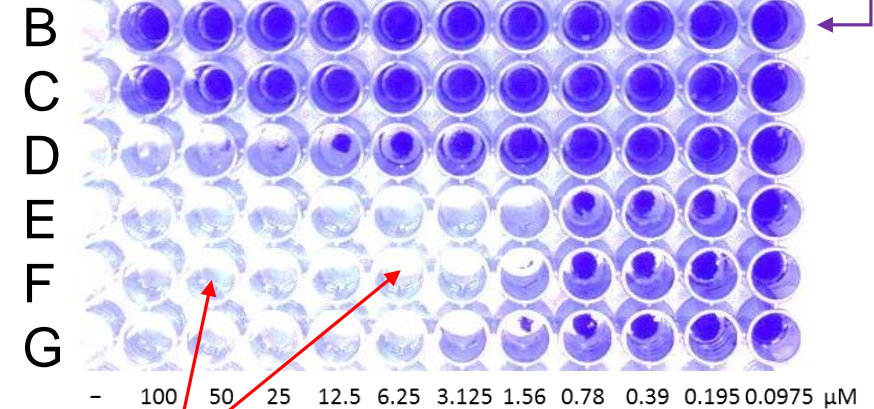


Results Unpublished;
COMING SOON!!

The search for bacterial biofilm inhibitors is underway in our labs.

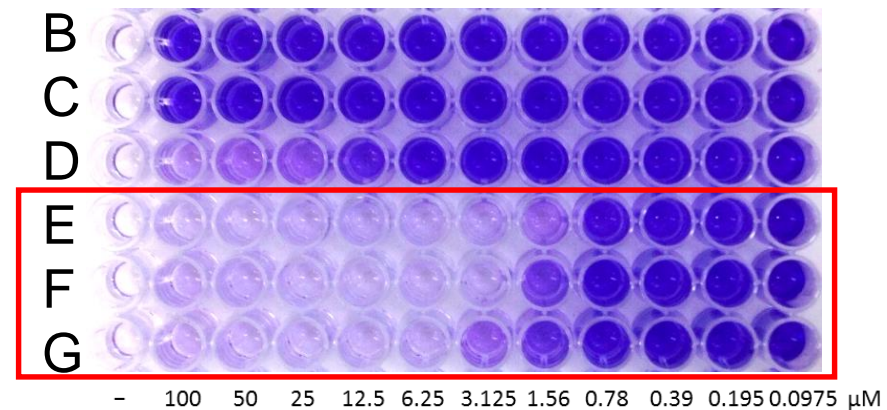
Dried Crystal Violet Stained Bacterial Biofilms

Bacterial Biofilms



Our novel compounds inhibit biofilm formation!

Dissolved Crystal Violet Stained Bacterial Biofilms



Discovery of Potent Biofilm Inhibiting Small Molecules against Pathogenic Bacteria!