

ANNUAL REPORT 2007



Welcome Incoming Biomedical Science freshmen!

The following students have accepted admission into the OSU Biomedical Science Major, starting Autumn Quarter, 2007:

Jamie Bergdall
Bellmont HS * Decatur, Indiana

Audrey Berry
Fairland HS * Proctorville, Ohio

Sean Boone
Marmion Academy * Geneva, Illinois

Steven Bruno
Dublin Jerome HS * Dublin, Ohio

Sarada Eleswarpu
Lakota East HS * West Chester, Ohio

Qi Fu
Lakota West HS * Hamilton, Ohio

Saamia Hossain
Columbus School for Girls
Dublin, Ohio

Michael Mbagwu
Springfield South HS
Yellow Springs, Ohio

Nicole Naiman
Olmsted Falls HS
Olmsted Falls, Ohio

Jason Pradarelli
Muskego HS * Muskego, Wisconsin

Courtney Schimmoeller
Ottoville HS * Fort Jennings, Ohio

Hanna Sorg
Troy HS * Troy, Ohio

Nicholas Sutton
Tippecanoe HS * Tipp City, Ohio

Katherina Timmer
Stone Ridge School of the Sacred
Heart * North Bethesda, Maryland

Joseph Vogelgesang
Shawnee HS * Lima, Ohio

Kara Zang
Hampton HS
Gibsonia, Pennsylvania

FIVE BMS STUDENTS PRESENT AT OSU DENMAN RESEARCH FORUM

In May of 2007, five Biomedical Science students participated in the annual Richard J. and Martha D. Denman Undergraduate Research Forum. Denman is a judged poster competition for students who have participated in research during the past academic year. The Biomedical Science participants were a combination of students whose research was completed on campus and others who worked in external research labs. BMS Participants were: Boyan Alexandrov, a rising sophomore from Upper Arlington (Upper Arlington High School) who works in the OSU biomedical informatics lab of Dr. Dan Janies; Shannon Conneely, a rising junior from Massillon (Jackson High School) who works in the OSU neuroscience lab of Dr. Candice Askwith; Megan Conroy, a rising junior from Gaithersburg, Maryland (Gaithersburg High School) whose research is from her summer internship at the National Institute of Health/National Eye Institute; Matt Flanigan, a rising junior from Cincinnati (LaSalle High School) who completed his research while a summer intern at the Cincinnati Children's Hospital Research Foundation; and Peter Sayers, a rising junior from Fayetteville, Georgia (Starr's Mill High



Denman participants (left to right): Shannon Conneely, Peter Sayers, Boyan Alexandrov, Megan Conroy, and Matt Flanigan

School) who works in the OSU neurological surgery lab of Dr. E. Antonio ChioCCA. Sayers has presented in the Denman in both his freshman and sophomore years.

Most participants in the Denman are upperclassmen, and the Biomedical Science program was very proud to have five underclassmen representing the major. Our goal for 2008 is to triple our numbers and have at least fifteen BMS students present at Denman!

BIOMEDICAL SCIENCE STUDENTS FINISH SCHOOL YEAR STRONG

Once again, the OSU Dean's List was full of Biomedical Science students. All twenty-six BMS freshmen who started in the fall of 2006 were still in the major at the end of the year. These freshmen finished the year with a class cumulative grade point average (GPA) of 3.65, which includes nineteen students with a 3.5 or higher GPA, thirteen students with a 3.7 or higher GPA, and two students with a perfect 4.0

GPA!

Twelve of the thirteen sophomores in the major in the fall of 2006 were still in the major at the end of the year. These twelve finished the year with an impressive class GPA of 3.76, which includes eleven students with a 3.5 or higher GPA, and eight students with a 3.7 or higher GPA. Way to go, BMS students!

A special thank you to the OSUMC faculty who are mentoring BMS students in their research labs, including:

Candice Askwith
Neuroscience

E. Antonio Chiocca
Neurological Surgery

Jonathan Davis
Physiology and Cell Biology

Jill Rafael-Fortney
Molecular and Cellular Biochemistry

Mike Freitas
Molecular Virology, Immunology and Med. Genetics

Pedram Ghafourifar
Surgery

John Gunn
Molecular Virology, Immunology and Med. Genetics

Kay Huebner
Molecular Virology, Immunology and Med. Genetics

Samson Jacob
Molecular and Cellular Biochemistry

Dan Janies
Biomedical Informatics

Sissy Jhiang
Physiology and Cell Biology

Maria Katakai
Neurology

Gustov Leone
Molecular Virology, Immunology and Med. Genetics

Kirk Mykytyn
Pharmacology

Chandan Sen
Surgery

Caroline Whitacre
Molecular Virology, Immunology and Med. Genetics

Ohio State faculty interested in having a Biomedical Science student in their research lab should contact Dr. Bruce Biagi at biagi.1@osu.edu

The first Biomedical Science students started Autumn Quarter, 2005 and are now halfway to graduation! The vision for this major is for a select group of students to be integrated into the OSU Medical Center by giving them solid a research experience and opportunities to witness clinical medicine. The Biomedical Science curriculum is rigorous, but it also allows students the flexibility to pursue individual interests. Enrollment in the major is limited to 25 new students per year, so classroom and advising situations are intimate and engaging. The students are often invited to participate in activities affiliated with our medical students and graduate research students. Admission into the major is competitive, and students are held to a high standard with the expectation of continuing on to graduate or professional school. In addition to completing a one to four year research experience and maintaining high grades, students are encouraged to develop their communication, leadership, and team building skills through both curricular and extracurricular activities. Outside of the classroom and the research lab, Biomedical Science students are involved in a variety of activities, such as student government, study abroad, service organizations, ambassador programs, bands and choirs, intramural sports, and Greek life. The 2006-07 school year included one of our students receiving co-authorship in The Journal of Comparative Neurology and another student receiving her first research award. We look forward to the upcoming school year as our first class prepares for application to graduate and professional school.

BMS STUDENTS EXPERIENCE CLINICAL MEDICINE WITH GREVER INTERNSHIP

Under the guidance of Dr. Michael Grever, Chair of the Department of Internal Medicine at the OSU Medical Center, a summer internship has been developed allowing biomedical science students the opportunity to spend eight weeks in the summer shadowing residents as they go about their workday. Students go on patient rounds, attend lectures and listen in on case studies. The interns are given white jackets, ID badges, pagers, and full access to the Medical Center, 24 hours a day.

In addition to exploring the various units within Internal Medicine, students also have the opportunity to explore their interests in areas such as surgery and pediatrics. Four students participated in



2006 summer interns (left to right) Shannon Conneely, Ben Jones, Peter Sayers, and Zach Rossfeld observe a patient exam given by Dr. Ian Myles.

the summer of 2006, and six students have been accepted into the program for the summer of 2007. For 2007, the internship has been expanded to include a research component. Students will still

participate in clinical activities in the morning but will work in a research lab in the afternoon, when most residents are doing paperwork. This new format will give students an even stronger training as they continue to explore careers in clinical care and research. Students find the internship to be a rich and rewarding experience. Special thanks to the faculty, staff, and residents of Internal Medicine for making this possible.