

Ian P. Douglas

Campus Address:
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Home Address:
827 Fairwind Dr.
Bel Air, MD 21014

Education

University

West Virginia University

Majors:

Medical Laboratory Sciences
Nanotechnology Emphasis

GPA: 3.14

Expected Graduation Date: May 2012

High School

Bel Air Senior High School

GPA: 3.75

Graduation Date: May 2007

Work Experience

Biochemistry Research (Fall 2009-Present)

Morgantown, WV

Research Goals

- Use *in vitro* selection to create a Molecular Recognition Element (MRE) for Superparamagnetic Iron Oxide Nanoparticles (SPIONs)
- Determine effects of Single Walled Carbon Nanotubes (SWCNT) on Polymerase Chain Reactions (PCR)
- Use of nano materials for anti-tumor drug development
- Use *in vitro* selection to create a Molecular Recognition Element (MRE) for High Grade Prostatic Intraepithelial Neoplasia (HGPIN) Cells

Research Symposiums and Presentations

- Undergraduate Research Day at the Capital Poster Presentation; (1/28/2010) Attended the statewide symposium in Charleston, West Virginia. The *in vitro* World of Functional Molecules. **Ian P. Douglas**, Letha J. Sooter.
- WVU American Chemical Society Poster Presentation; (3/20/2010) Participated in WVU's annual Chemistry Symposium hosted by the ACS-Student Affiliates in Morgantown, WV. *In vitro* Selection of SPIONs. **Ian P. Douglas**, Letha J. Sooter.
- WVU Academy of Science Poster Presentation; (4/10/2010) Participated in WVU's 85th Annual WVAS Symposium hosted by the WVU College of Engineering. *In vitro* Selection of Superparamagnetic Iron Oxide Particles. **Ian P. Douglas**, Bridget D. Hines, Letha J. Sooter.
- WVNano Symposium Poster Presentation; (4/20/2010) Participated in WVNano Research Symposium hosted by WVNano. Molecular Recognition Element Selection of SPIONs. **Ian P. Douglas**, Bridget D. Hines, Letha J. Sooter.

- WVNano Brown Bag Lunch Oral Presentation; (3/23/2010) Participated in WVNano Brown Bag Lunch. Use of *in vitro* Selection for SPIONs. **Ian P. Douglas**, Bridget D. Hines, Letha J. Sooter. (Fall 2010):
- WVU Pharmacy Research Day; (10/1/2010) Participated in Pharmacy Research Day. Isolation of Antibody scFv Specific to PIN Cells. **Ian P. Douglas**, Ryan M. Williams, Letha J. Sooter

Tools / Skills

- DNA purification – Electrophoresis
- PCR
- SWCNT Safety / Preparation
- Spectroscopy Methodology
- Lab Safety
- Sonication technique
- Use of yeast surface peptides
- Human cell growth and splitting

Morgantown Boys and Girls Club (Fall 2010-Present)

Volunteered for +130 hours

Worked with graded K-12 with homework. Organize 6-8 grade power hour, take attendance, reading logs, and keep kids working. Supervise all members at club. Clean up rooms, take out trash, discipline members, set good example for members.

Ruby Memorial Hospital Volunteer (Spring 2008)

Volunteered for +60 hours.

Worked in ER accommodating patients and their families. Also worked Child Care Center, on call with nurses if needed, ran center alone most of time, entertained kids, cleaned.

Bel Air Volunteer Fire Company (Summer 2010)

Became CPR certified. Completed majority of training. Had to post pone continuation of program due to college. Plan on continuation after done with schooling.

Upper Chesapeak Medical Center (Summer 2010)

Volunteered for +40 hours.

Worked in PACU accommodating patients and nurses. Brought blankets and drinks, to patients. Cleaned stations after patient discharge. Cleaned and setup stretchers for next patients. Wheeled patients to pickup area.

MTD Service Inc. (Summers 2004, 2006, 2008, 2009)

White Marsh, MD

Worked at a construction company over the summer. Learned how to operate the machinery (Forklift, Backhoe, Dump truck, Vehicle Lifts, etc.) Became BP safety certified to work on their sites. Know what it means to have a hard day's work. (2004, 06, 09)

Office Secretary Experience (Learned how to fax, file paper work, write phoned in job calls, answer/screen phone calls, etc.) (2008)

Bob Evens (2005-2006)

Bel Air, MD

Taught me patience, and work ethic. Employee relationships, good managing skills, and how to get along well with others. The need of a smooth system to work efficiently.

Activities/ Honors

“He Who Leads by Quiet Dedication” Award (from High School Football Coaches)

12 years of perfect attendance during Elementary, Middle, and High School

Photography/Art (Black/White, Color)

9 yrs of Violin/Viola

High School Distinguished Honor role

Minds in Motion Award/ Scholar Athlete Award (from High School)

Harford County Sportsmanship Award (J/V and Varsity Football and Track)

Habitat for Humanity Volunteer (Summer 2007, 2008)

Food Kitchen Volunteer (Summer/Winter 2007, 2008)

Bel Air MD Volunteer Fire Fighter (Spring 2010- Current)

References

References upon request.