

Drew Clearfield

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Education

Drexel University

Philadelphia, PA

Bachelor of Science in Biomedical Engineering Concentration: Biomaterials and Tissue Engineering Anticipated Graduation - June 2012

Research Experience

Biocomputation

Assisting Andres Kriete, Ph.D., in Research Involving

2009-Present

Systems-Biology of Biological Pathways

Background in quantitative modeling of biomolecular interactomes

• Experience in verifying simulations, performing sensitivity analyses, and handling SBML language

Biomaterials and Tissue Engineering

Working with Peter Lelkes, Ph.D, on Engineering Co-Electrospun Scaffolds for use in Cranial Fracture Healing

2010-Present

- Currently engineering chamber to possess climate qualities which induce electrospinning in the presence of cell proliferation
- Responsible for various mechanical testing, engineering of nanofiber scaffolds, and culturing osteoblasts

Laboratory Experience

- Experience in conducting Bradford assays, gel electrophoresis, and PCR
- Background in stress/strain analysis of elastic biomaterials using an MTS displacement apparatus
- Experience in conducting and analyzing ECGs, EOGs, and EMGs
- · Trained in cell culturing techniques and immunoassaying

Related Coursework

- Human Physiology I, II
- The Body Synthetic
- Biosimulation
- Experimental Biomechanics

- · Biomeasurements Laboratory
- Organic Chemistry I, II
- Differential Equations
- Fundamentals of Materials

Activities

Participant in Multiple Health Organizations

2007-Present

- · Co-Treasurer of The American Red Cross Association
- Member of the American Medical Student Association
- · Member of Health Occupations Students of America

Computational Skills

- · Matlab, Microsoft Word, PowerPoint, and Excel Software
- SBML programming

References

Andres Kriete, PhD.

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