DANIEL H. LEVY

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EDUCATION

University of Maryland • College Park, MD — August 2019 – Present

Doctor of Philosophy in Bioengineering (In progress) — GPA: 4.00

Santa Clara University • Santa Clara, CA — June 2018

Master of Science in Bioengineering — GPA: 3.91

University of California, Davis • Davis, CA — December 2014

Bachelor of Science in Biomedical Engineering — GPA: 3.00

RESEARCH EXPERIENCE

Investigation of the translatability and therapeutic potential of iPSC EVs — January 2019 – Present

- Designed the experimental plans for assessment of the translational and therapeutic potential of induced pluripotent stem cell-derived extracellular vesicles in regenerative medicine applications.
- Developed and wrote research proposals that have submitted for fellowship applications and research publications.

Engineering Nanovesicles for Bioactive Protein Delivery – Master's Thesis — Fall 2017 – June 2018

- Researched, developed and validated a novel protein delivery system via nanovesicles for enzyme replacement therapy for lysosomal storage disease.
- Wrote and revised a thesis paper which ultimately became the foundation for several journal publications.

WORK EXPERIENCE

Graduate Research Associate – University of Maryland — August 2019 – Present

- Investigated the potential of extracellular vesicles for therapeutic purposes from various sources including human somatic cells, plant cells, multipotent and pluripotent stem cells

Graduate Teaching Assistant – University of Maryland — August 2020 – May 2021

- Prepared course material, lectured, and developed homework/exam questions for a modeling physiological systems course.

Department Laboratory Manager – Santa Clara University — June 2018 – June 2019

- Managed and supported the bioengineering department's faculty, teaching assistants, and student researchers
- Managed a large-scale project of department laboratory facilities relocation in support of a larger campus-wide consolidated STEM project.
- Placed laboratory orders, performed laboratory safety trainings, performed specialized instrument trainings, prepared and inventoried biochemical reagents and supplies for lab maintenance and student projects.

Research Associate – Santa Clara University — June 2017 – June 2018

- Collaborated across multiple bioengineering labs to develop novel nanovesicle protein delivery vehicles, isolation techniques, and investigated native secretory proteins.
- Trained undergraduate students in mammalian cell culture and various molecular biology techniques in addition to advising upper division students in experimental designs for their senior design projects.

PUBLICATIONS & CONFERENCE ABSTRACTS

- **Levy, D.,** Nourmohammadi Abadchi, S., Shababi, N., Rouhani Ravari, M., Pirolli, N.H., Bergeron, C., Obiorah, A., Smith, I.M., Powsner, E., Solomon, T.S., Harmon, J.W., Jay, S.M., "Induced pluripotent stem cell-derived extracellular promote wound repair in a diabetic mouse model via an anti-inflammatory immunomodulatory mechanism." *Advanced Healthcare Materials,* DOI: 10.1002/adhm.202300879, 19 June 2023

*For full publication list: https://scholar.google.com/citations?user=VeM6-bgAAAAJ&hl=en

TECHNICAL SKILLS

Molecular Biology: Mammalian Cell Culture • Microscopy (Fluorescent, Confocal, TEM) • Flow cytometry • Gel Electrophoresis (Protein, DNA) • Western/Dot Blot • ELISA • Molecular cloning & plasmid generation • qPCR • Tangential Flow Filtration • Animal Handling (Mice) • Histology (Masson's trichrome, IHC)

General: Circuit Design (Op amp filters, Oscilloscope, LabView) • 3D CAD (Solidworks) • Technical writing

Fabrication and Machining: Lathe • End-Mill • Band-saw • Drill Press • CNC

Programming Languages: Matlab • C • Python

AWARDS

ellowships: Clark Doctoral Fellowship (2019-2020**)** • UMD Graduate Summer Research Fellowship (2022) • NIH T32 Host-Pathogen Interactions Training Grant (2022-2023) • Ann G. Wylie Dissertation Fellowship (2023)

Awards: Cosmos Scholar Grant (2020-2021) • Jacob K. Goldhaber Travel Award (2022)