

Nicholas J. Shubin, BS

*Pathobiology Graduate Program-Pre-doctoral Student
AYALA LAB*

Division of Surgical Research

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Primary Research Field

Immunology, inhibitory receptor signaling, leukocyte migration, immune dysfunction in critical illness

Education

BROWN UNIVERSITY | Providence, Rhode Island August 2008 –Present
Current PhD student in Pathobiology Program

UNIVERSITY OF WASHINGTON | Seattle, Washington December 2002
Bachelor of Science in Molecular and Cellular Biology
Minor in Chemistry

Professional Experience

CARDAX PHARMACEUTICALS | Aiea, Hawaii, February 2006 – July 2008
Research Associate

- **primary goal** | Biological support for mechanistic understanding of small molecule protection against oxidative damage in atherosclerosis and prostate cancer
- **strategies applied** | ~ Western Blotting ~ Immunohistochemistry ~ Proliferation studies ~ FACS ~ Growth studies ~ Invasion studies ~ Mitochondria purification
- **accomplishments** | Showed small molecule protection against oxidative damage in many different molecular pathways including NF κ B and JNK, and presented data to Board of Directors.

ICOGENEX CORPORATION | Seattle, Washington, October 2003 – January 2005

Research Associate

- **primary goal** | Systematically narrow a rich natural product source down to lead compounds that may be used for treatment of neurodegenerative and inflammatory disease
- **strategies applied** | ~ DNA sub-cloning ~ RNA purification ~ Animal studies; *Xenopus Laevis*

- ~ HPLC method development and maintenance ~ Lymphocyte chemotaxis studies
- **accomplishments** | Chemically narrowed natural product source to many potential lead compounds. Team showed inhibition of several specific chemokine receptors involved in leukocyte trafficking with lead compounds.

FRED HUTCHINSON CANCER RESEARCH CENTER | Dr. William Carter Lab | Seattle, Washington

Research Technician II December 2002 – October 2003

- **primary goal** | Develop siRNA assay to investigate ‘knock-down’ of genes of interest
- **strategies applied** | ~ Western Blotting ~ Mouse genotyping ~ ELISA ~ RIPS ~ DNA sub-cloning ~ RT-PCR
- **accomplishments** | Produced 3 active siRNA DNA plasmids which ‘knocked-down’ message levels in many cell lines. Trained others on procedure and presented data in lab meetings.
- **duties** | Maintained rodent colony and supervised work-study students.
- **Lab Aide** | Work-Study February 2000 – December 2002
- **duties** | Supported many researchers on their projects. Maintained rodent colony. Regularly isolated primary human keratinocytes and fibroblasts from human tissue.

Affiliations / Achievements

~ 9 years in Academic and Industrial laboratories using molecular biology, in-vitro cellular biology, biochemistry, immunology, microbiology, chemistry and animal studies

~ Attended American Society for Cell Biology, 46th Annual meeting, December 2006, San Diego, CA

Awards, Honors, Fellowships, Grants

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Publications:

Abstracts (published):

Presentations (Oral & Poster):

Last updated: 6/16/2009