

## **JIMIANE L. ASHE**

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### **PROFESSIONAL OBJECTIVE**

As a graduate student, I utilize cell and molecular biological methods to expand my scientific research experience and contribute to publications and advances in elasmobranch ecology and preservation.

### **SUMMARY**

- Research Associate with 12+ years experience in scientific research and development.
- Proficient in experimental design, project management, and laboratory practices.
- Passionate, creative and highly organized scientific researcher with demonstrated track record of increasing skills and responsibilities.
- Skilled analyst and technician with over 5000 hours spent using the ABI3100 and 3730 Genetic Analyzers, COBE 2991, thermalcyclers (PCR), ABI7900HT Real Time thermalcycler, Agilent 2100 Bioanalyzer, NanoDrop ND-1000 Spectrophotometer, FACS Caliber, Axon GenePix4000B Scanner and Agilent Microarray Scanner.
- Strong, adaptable team player who's equally effective in small, large, tiered or matrix organizations.
- Computer experience includes MS Word, Excel and PowerPoint, WinList, Cell Quest, Agilent 2100 ExpertvB.02.03, GenePixProv6.0, NimbleScan, Agilent Feature Extraction, SDSv2.3, Sequencing Analysisv5.0, GeneMapperv4.0 and Peak Scannerv1.0.
- Divemaster with specialty certifications in Night, Deep, Dry Suit and Enriched Air diving.

### **LABORATORY & ASSOCIATED SKILLS**

SDS-Page Electrophoresis  
Cell Culture  
Cellular & Molecular  
Detection Assays  
Microarray Analysis

Flow Cytometry  
PCR and Genetic  
Sequencing  
Microsatellite Detection  
Quantitative PCR

SOP Composition  
Effective Communicator  
Facilitator in Meetings  
Tissue Procurement  
Animal work

### **EXPERIENCE**

**Stony Brook University, Stony Brook, NY (2009-present)**

Graduate Student, School of Marine and Atmospheric Sciences, Chapman Lab

- Thesis project addresses population genetics and phylogeography of *Negaprion brevirostris* in the Western Atlantic.
- Tissue extraction, PCR, Microsatellite detection & Mitochondrial sequencing of *Negaprion brevirostris* (lemon shark) and other elasmobranch species DNA with ABI3700 Genetic Analyzer.

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**Seattle Aquarium, Seattle, WA (2002-present)**

Lab Technician

- Tissue extraction, PCR & Microsatellite detection of *Hexanchus griseus* (sixgill shark) and *Notorynchus cepedianus* (sevengill shark) DNA with ABI373, ABI310 and ABI3100 Genetic Analyzers.
- Tissue extraction, PCR, Microsatellite detection, and hormone assays of *Enhydra lutris* (Pacific sea otter).
- Behavioral monitoring and video data mining for *Hexanchus griseus*.
- Shore support for *Hexanchus griseus* research and tagging events.
- Animal husbandry, larval rearing and interpretive talks.

**Fred Hutchison Cancer Research Center, Seattle, WA (2005-present)**

Genomics Specialist I

- Reverse Transcription, amplification, direct and indirect amino-allyl labeling, hybridization and scanning for Microarray analysis for FHCRC Custom, Agilent, Affymetrix, and NimbleGen array platforms.
- Quality control tests utilizing NanoDrop ND-1000 Spectrophotometer and Agilent 2100 Bioanalyzer for RNA and DNA.
- Genotyping and sequencing DNA/RNA samples from multi-disciplinary center departments using ABI 3100 and 3730 Genetic Analyzers.
- Project management, operation, and educational instruction for Real Time PCR assays, equipment and software utilized by center researchers using ABI7900 HT SDS thermalcyclers.

**Xcyte Therapies, Inc., Seattle, WA (2004-2005)**

Research Associate II

- T cell culture, activation and stimulation of human tissues from study subjects with HIV, Cancer, Autoimmune diseases, and Congenital Immunodeficiency.
- Project management of human tissue procurement for research purposes.
- Formal presentations to Scientific and Executive Staff.
- Flow Cytometry data acquisition and analysis using FACS Calibur and WinList.
- PCR and genetic sequencing with ABI3100 Genetic Analyzer.
- Cellular and Molecular detection assays including ELISA, ELISpot, and Spectratype.
- Large scale cell processing using COBE 2991 System.
- Procured human tissue samples for research under IRB and IND regulations.

**Northwest Lions Eye Bank, Seattle, WA (2003-2004)**

Laboratory Technician, Lead

- Aseptic procurement of human corneas and scleral tissue for transplantation.
- Prepared and sterilized instrument and accessory kits for procurement surgeries.
- Managed stock and cleanliness of the eye bank laboratory.

**Children's Hospital & Regional Medical Center, Seattle, WA (2000-2002)**

Patient Care Coordinator

- Scheduled surgeries and medical procedures for pediatric cancer patients.
- Completed laboratory, computer, and technical orders to build medical schedules.

**AmeriCorps\*VISTA, Panhandle Health District #1, Sandpoint, ID (1998-1999)**

VISTA Volunteer

- Developed new molecular laboratory testing methods.
- Integrated an abstinence education curriculum into public school sex education programs.

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## EDUCATION

**Stony Brook University**, Stony Brook, NY (2009-present)  
M.S. Marine Science, School of Marine & Atmospheric Sciences, Expected August 2010.

**University of Washington**, Seattle, WA (1994-1998)  
B.S. Cell & Molecular Biology, minor in Chemistry

**Granite Falls High School**, Granite Falls, WA (1991-1994)  
Valedictorian

## PUBLICATIONS & PRESENTATIONS

SA Long, J Khalili, J Ashe, R Berenson, M Bonyhadi (2006) **Standardizing Analysis for the Quantification of Vb CDR3 T Cell Receptor Diversity.** *J. Immunological Methods*, Volume 317, Issues 1-2, Pages 100-113.

SA Long, J Lawrence, J Ashe, R Berenson, M Bonyhadi (2005) **Ex vivo Expanded, Xcellerated T Cells™, Produce a Diverse, Highly Proliferative Population of Functional T Cells.** Poster Presentation, Immune Senescence and Homeostasis Keystone Conference (Keystone, CO).

## TECHNICAL ACKNOWLEDGEMENTS

CA Chavel, HM Dionne, B Birkaya, J Joshi, PJ Cullen (2010) **Multiple Signals Converge on a Differentiation MAPK Pathway.** *Public Library of Science*, Genet 6(3): e1000883.

S Larson, D Tinnemore, C Amemiya (2009) **Microsatellite loci within sixgill sharks, *Hexanchus griseus*.** *Molecular Ecology Resources*, Vol. 9, Issue 3, Pages 978-981.

K Wolff, K Houston, S Dunbar-Co (2009) **Cross-species amplification of primers developed from *Plantago major* and *P. intermedia* in two Hawaiian *Plantago* species from the section *Plantago*.** *Molecular Ecology Resources*, Vol. 9, Issue 3, Pages 981-984.

A Pitoniak, B Birkaya, HM Dionne, N Vadaie, PJ Cullen (2009) **The Signaling Mucins Msb2 and Hkr1 Differentially Regulate the Filamentation Mitogen-activated Protein Kinase Pathway and Contribute to a Multimodal Response.** *Molecular Biology of the Cell*, Vol. 20, Issue 13, 3101-3114.

SB Pierce, C Yost, SAR Anderson, EM Flynn, J Delrow, RN Eisenman (2008) ***Drosophila* growth and development in the absence of dMyc and dMnt.** *Developmental Biology*, Vol. 315, Issue 2, Pages 303-316.

RW Hyppa, GA Cromie, GR Smith (2008) **Indistinguishable Landscapes of Meiotic DNA Breaks in *rad50*<sup>+</sup> and *rad50S* Strains of Fission Yeast Revealed by a Novel *rad50*<sup>+</sup> Recombination Intermediate.** *Public Library of Science*, Genet 4(11): e1000267.

K Noonan, W Matsui, P Serafini, R Carbley, G Tan, J Khalili, M Bonyhadi, H Levitsky, K Whartenby, I Borrello (2005) **Activated Marrow-Infiltrating Lymphocytes Effectively Target Plasma Cells and Their Clonogenic Precursors.** *Cancer Research* 65, 2026-2034.