

AMY M CHINN

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EDUCATION

University of California, San Diego

September 2013 — Present

La Jolla, California

- Biomedical Sciences Ph.D. Program
- GPA: 3.99 (4.0 scale)

University of California, Berkeley

August 2009 — May 2013

Berkeley, California

- B.S., Microbial Biology; Track: Host-Pathogen Interactions
- Biology GPA: 3.6 (4.0 scale)

PUBLICATIONS

- Insel PA, Wilderman A, Zambon AC, Snead A, Murray F, Aroonsakool N, McDonald DS, Zhou S, McCann T, Zhang L, Sriram K, **Chinn AM**, Michkov AV, Lynch RM, Overland AC, Corriden R. (2015). G protein-coupled receptor (GPCR) expression in native cells: "Novel" endoGPCRs as physiologic regulators and therapeutic targets. *Molecular Pharmacology*, *88*(1): 181-7.
- Nathanson J, Swarr DT, Singer A, Liu M, **Chinn A**, Jones W, Hurst J, Khalek N, Zackai E, Slavotinek A. (2013). Novel FREM1 mutations expand the phenotypic spectrum associated with manitoba-oculo-tricho-anal (MOTA) syndrome and bifid nose renal agenesis anorectal malformations (BNAR) syndrome. *American Journal of Medical Genetics Part A*, *161*(3), 473-478.
- Rykaczewski K, Scott JHJ, Rajauria S, Chinn J, **Chinn AM**, Jones W. (2011). Three dimensional aspects of droplet coalescence during dropwise condensation on superhydrophobic surfaces. *Soft Matter*, *7*(19), 8749-8752.
- Rykaczewski K, Chinn J, Walker ML, Scott JHJ, **Chinn A**, Jones W. (2011). Dynamics of nanoparticle self-assembly into superhydrophobic liquid marbles during water condensation. *ACS Nano*, *5*(12), 9746-9754.

ABSTRACTS

- Chinn AM, Lee J, Raz E, Insel PA. Cellular compensation for chronic decreases in cyclic AMP concentration: $G\alpha s$ -deficient dendritic cells as a model and implications for therapeutics for allergic disorders. Poster session presented at: Experimental Biology; 2017 April 22-26; Chicago, IL.
- Chinn AM, Michkov AM, Insel PA, Corriden R. Flow cytometry-based quantification of cyclic AMP in primary human neutrophils. Poster session presented at: Experimental Biology; 2017 April 22-26; Chicago, IL.
- Chinn AM, Lee J, Herdman S, Raz E, Insel PA. How do cells compensate for a chronic decrease in cyclic AMP concentrations? Poster session presented at: Posttranslational Regulation of Cell Signaling Symposium; 2016 August 2-5; San Diego, CA.
- Chinn AM, Lee J, Herdman S, Raz E, Insel PA. Involvement of the cyclic AMP pathway in dendritic cell regulation of Th2 immune responses. Poster session presented at: UCSD Pharmacological Sciences Department Retreat; 2016 May 26; San Diego, CA.
- Chinn AM, Lee J, Herdman S, Raz E, Insel PA. Involvement of the cyclic AMP pathway in dendritic cell regulation of Th2 immune responses. Poster session presented at: Experimental Biology; 2016 April 2-6; San Diego, CA.

AWARDS

- 2017 ASPET Molecular Pharmacology Finalist for Graduate Student Best Presentation Award
- 2016 APS Robert Gunn Student Award Finalist
- 2015 – 2017 UCSD Pharmacological Sciences Training Grant

EXPERIENCE

University of California, San Diego

July 2014 — Present

Graduate Student Researcher, Paul Insel Laboratory

- Thesis Project: Investigating the role of G protein coupled receptors (GPCRs) and the cAMP signaling pathway in dendritic cell regulation of type II helper T cell (Th2) and type 17 helper T cell (Th17) immune responses.
- Rotation Project: Investigated the effects of hypoxia on the expression of orphan GPCRs in primary human pulmonary arterial smooth muscle cells

The Scripps Research Institute

June 2014 — July 2014

Graduate Student Researcher, Bruce Torbett Laboratory

- Tested a new method of concentrating and purifying lentiviral vectors via a discontinuous sucrose gradient
- Transfected human cell lines to generate lentiviral vectors, transduced cells with the vectors generated, and analyzed cells by flow cytometry

University of California, San Diego

March 2014 — June 2014

Graduate Student Researcher, Wenxian Fu Laboratory

- Isolated pancreatic beta cells from mice for use in primary cell culture

University of California, San Diego

January 2014 — March 2014

Graduate Student Researcher, Richard Gallo Laboratory

- Studied the structure and distribution of Hogocidin- α , a lantibiotic produced by *Staphylococcus hominis*
- Investigated the antimicrobial activity of Hogocidin- α and created an overexpression plasmid for it; measured its levels in clinical samples

University of California, San Diego

September 2013 — December 2013

Graduate Student Researcher, Ajit Varki Laboratory

- Led a project investigating the impact of incorporation of the non-human sialic acid Neu5Gc into human cells, which happens naturally as a result of dietary intake
- Investigated the effects of anti-Neu5Gc antibodies on Neu5Gc-containing epithelial cells and the impact this has on cellular receptors

University of California, Berkeley

September 2010 — May 2013

Undergraduate Research Apprentice, Xiaohua Gong Laboratory

- Led a project elucidating the function of Sodium/Hydrogen Exchanger 8 Protein (NHE8) in the ocular and male reproductive systems by characterizing the phenotypes of wildtype, knockout, and mice possessing a missense mutation in NHE8 in regards to the internal structure and protein localization within the retina and testes
- Worked with a senior project scientist and senior undergraduates investigating the molecular mechanisms of retinal degeneration, and trained 5 undergraduates in laboratory techniques

University of California, San Francisco

June 2012 — August 2012

Medical Science Intern, Anne Slavotinek Laboratory

- Performed research that resulted in a publication which expanded existing knowledge on the range of phenotypic effects that mutations in the gene *FREM1* can have on human patients
- Worked on identifying known disease-causing genetic mutations in human patients with microphthalmia and anophthalmia
- Investigated genes previously un-implicated in the cause of microphthalmia and anophthalmia in both animal models and human patients through reverse genetics experiments on zebrafish utilizing RNA morpholino for gene knock-down as well as sequencing of human patients' DNA

Integrated Surface Technologies, Inc., Menlo Park, California

- Integrated Surface Technologies (IST) is a nanotechnology startup company developing a new class of durable nano-composite coatings

- Performed research that contributed to two different publications
- Worked on the improvement of hydrophobic, superhydrophobic, and oleophobic nano-composite films' chemical properties, durability, and consistency in performance. Films were evaluated using goniometry and ellipsometry.