

# Curriculum Vitae

## Ariane Jansma

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### Education

**University of California, San Diego** *San Diego, CA* 2004 – 2009

PhD in Biochemistry

Dissertation Title: Structural and Functional Analysis of the Chemokine CCL27 and Expression of the Chemokine Receptor D6

Sponsor: Tracy Handel, PhD

**San Diego State University** *San Diego, CA* 2001 – 2004

MS in Analytical Chemistry

Thesis Title: Development and Implementation of a Micro-Coil Capillary Flow NMR System in a Drug Discovery Environment

Sponsors: Bernhard Geierstanger, PhD and John Love, PhD

**Pepperdine University** *Malibu, CA* 1996 – 2001

BS in Chemistry

BA in Spanish, *Cum Laude*

### Work History

**Point Loma Nazarene University** *San Diego, CA* Jan. 2014 – Present  
Associate Professor

**The Scripps Research Institute** *La Jolla, CA* Jan. 2010 – Dec. 2013  
Postdoctoral Research Associate  
*Mentor: Dr. Peter Wright*

**UCSD Department of Chemistry and Biochemistry** *San Diego, CA* Aug. 2004 – Dec. 2009  
PhD Candidate  
*Mentor: Dr. Tracy Handel*

**Genomics Institute of the Novartis Foundation (GNF)** *San Diego, CA* Aug. 2002 – Jul. 2004  
Research Associate, NMR Spectroscopy

**DuPont Pharmaceuticals/Deltagen Research** *San Diego, CA* Aug. 2001 – Jul. 2002  
Contracted NMR Spectroscopist

### Classes Taught at PLNU

#### Lecture Courses

- Advanced Biochemistry: CHE/BIO 4050
- Biochemistry for PA Students: MSM 6003
- Analytical Chemistry and Lab: CHE 2013
- Organic Structure Elucidation: CHE 3051
- General Chemistry I: CHE1052
- General Chemistry II: CHE1053
- Introduction to Chemistry: CHE 1003

## Laboratory Courses

- Advanced Biochemistry Lab: CHE/BIO 4050L (Coordinator)
- Introduction to Chemistry Lab: CHE 1003L (Coordinator)
- General Chemistry II Lab: CHE 1053L
- Organic Structure Elucidation Lab: CHE 3051L

## Publications

### Rigorous Peer Reviewed Publications as a Faculty Member at PLNU

Salanga, C.L.\*; **Jansma, A.L.\***; Dyer, D.P.; Handel, T.M. "Distinct signaling and glycosaminoglycan-binding properties of the CC chemokine receptor type 10 ligands, CCL27 and CCL28." **2022, Manuscript in preparation**

\* **Authors contributed equally**

Risor, M.\*; **Jansma, A. L.\***; Medici, N. §; Thomas, B. §; Dyson, H. J.; Wright, P. E. "Characterization of the high-affinity fuzzy complex between the disordered domain of the E7 oncoprotein from high-risk HPV and the TAZ2 domain of CBP." *Biochemistry* **2021**, 60 (51), 3887 – 3898

\***Authors contributed equally, §Point Loma Nazarene University student**

Lineback, J. E.; **Jansma, A. L.\*** "PyMOL as an instructional tool to represent and manipulate the myoglobin/hemoglobin protein system." *J. Chem. Ed.* **2019**, 96 (11), 2540 – 2544

\* **Corresponding Author**

**Jansma A. L.**, Martinez-Yamout M. A., Liao R., Sun P., Dyson H. J., Wright P. E. "The high-risk HPV16 E7 oncoprotein mediates interaction between the transcriptional coactivator CBP and the retinoblastoma protein pRb." *J. Mol. Biol.*, **2014**, 426(24): 4030 – 48.

### Unpublished Scholarly Outcomes

Dorrell, M.; Woelburn, H.; **Jansma, A.L.\*** "The Effect of Phosphorylation on the Oncogenic Properties of the Protein E7 from High-Risk HPV." **2019 Submitted Application** for the Academic Research Enhancement Award (AREA) (R15) Grant to the National Institute of General Medical Sciences (NIGMS) of the National Institute of Health (NIH).

\***Corresponding Principle Investigator**

### Conferences Attended and Invited Talks

Lambie, C.\*; Wright, J.; **Jansma, A.L.** "Expression and Purification of the Disordered PDZ Binding Domain of the NS5 Protein from Tick-Borne Encephalitis Virus." *Oral Presentation, April 2019* West Coast Biological Sciences Undergraduate Research Conference (WCSBURC), San Diego, CA

Orlando, R.\*; Mazza, K.; Malone, M.; **Jansma, A.L.** "NMR Spectroscopy to Evaluate the Phosphorylation State of the Oncogenic Protein E7 from a Hyper-Virulent Form of HPV." *Oral Presentation, April 2019* West Coast Biological Sciences Undergraduate Research Conference (WCSBURC), San Diego, CA

Malone, M.\*; Mazza, K.; Orlando, R.; **Jansma, A.L.** "The Effect of Phosphorylation on the Oncogenic Properties of the Protein E7 from High-Risk HPV." *Oral Presentation, April 2019* West Coast Biological Sciences Undergraduate Research Conference (WCSBURC), San Diego, CA

**Jansma, A.L.** “High-Risk HPV E7 Oncoprotein Interaction with TAZ2.” **January 2018**, *Invited Seminar Speaker*, Pepperdine University, Malibu, CA.

Morin, L.\*; Wheelock, M.; Steele, T.; Long, A.; **Jansma, A.L.** “Analysis and assignment of the 1H-15N HSQC of the PDZ-1 domain from the Zonula Occludens Protein 1.” *Poster Presentation April 2017*, American Chemical Society (ACS) National Conference, San Francisco, CA

Medici, N.\*; Thomas, B.\*; Holmes, B.; Morin, L.; Wright, P.E.; **Jansma, A.L.** “The application of NMR paramagnetic relaxation enhancement to analyze the relative orientations of the HPV oncoprotein E7 in complex with the TAZ2 domain of CBP.” *Oral Presentation, April 2016* West Coast Biological Sciences Undergraduate Research Conference (WCSBURC), San Diego, CA

## Research Completed and in Progress

- Effect of phosphorylation on the oncogenic properties of the protein E7 from high risk HPV
- Structural basis for functional differences between high-risk and low-risk HPV
- Computational analysis of E7 hydrophobicity between high-risk and low-risk HPV serotypes
- Evaluation of the co-structure between the HPV oncoprotein E7 and the transcription factor TAZ2

## Service

### Departmental Service

- NMR Spectrometer facility manager 2013 – Present
- Advisor to students pursuing careers in biotech industry 2016 – Present

### University Service

- Committee service
  - Committee for technology in the classroom 2014 – 2015
  - Faculty Ethos Committee 2015 – 2016
  - Academic Proposal Committee, APC 2016 – 2017
  - Faculty Development Committee 2017 – 2018
  - GESC 2018 – 2021
  - Faculty Committee for Diversity 2021 – 2022
- Commencement Name Reader 2019 - Present

## External Service

### Church

- Active member of the La Jolla Community Church 2015 – Present
  - Communion Server 2018 – Present
- Angel Tree Coordinator, Prison Fellowship 2008 – 2013

### Community

- Board of Directors Vice Present, Friends of Rose Canyon 2011 –Present
- PTA Executive Cabinet, Curie Elementary School 2020 – 2021
- PTA Executive Board, Curie Elementary School 2018 –2020

## Professional Organizations

- Protein Society
- Faculty of 1000 Associate Faculty Member
- American Chemical Society (ACS)
- California Analytical Chemist Organization (CACO), San Diego
- Association for Women in Science (AWIS)

## Awards and Honors as a Faculty Member at PLNU

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| • Research and Special Project (RASP) Grant  | 2022 |
| • Excellence in Teaching                     | 2020 |
| • Research and Special Project (RASP) Grant  | 2019 |
| • Research and Special Project (RASP) Grant  | 2018 |
| • Research and Special Project (RASP) Grant  | 2017 |
| • Alumni Association Faculty Grant           | 2016 |
| • Research and Special Project (RASP) Grant  | 2015 |
| • Wesleyan Center Scholar Award              | 2014 |
| • Research and Special Projects (RASP) Grant | 2014 |
| • Alumni Association Faculty Grant           | 2014 |