## JENNIFER JAHNCKE

• Portland, OR

# **EDUCATION**

2024 2018

#### Oregon Health & Science University

PhD in Neuroscience

Portland, OR

· Advisor: Kevin M. Wright, PhD, Vollum Institute, OHSU

2014 2010

#### University of California, Davis

BS in Psychology, Minor in Neuroscience

Oavis, CA

#### **Selected Courses**

- · Analytical and Quantitative Light Microscopy, MBL, 2024, Woods Hole, MA
- · Behavioral Neuroscience Responsible Conduct of Research, OHSU, 2024, Portland, OR
- · Neurohackademy, UW, 2023, Seattle, WA
- · Programming for Biology, CSHL, 2022, Cold Spring Harbor, NY
- · Biostatistics, OHSU, 2020, Portland, OR
- · Data Visualization, OHSU, 2020, Portland, OR
- · Practice and Ethics of Science, OHSU, 2018, Portland, OR
- · Light and Fluorescence Microscopy, UC Davis, 2017, Davis, CA

#### RESEARCH EXPERIENCE

Present 2024

#### Postdoctoral Researcher

Vollum Institute, OHSU

Portland, OR

- · Systematic analysis of seizure activity in mouse models of dystroglycanopathy.
- · Development and validation of gene therapy to alleviate neurological deficits in mouse models of dystroglycanopathy.

2024 2018

#### Graduate Student Researcher

Neuroscience Graduate Program, OHSU

- Portland, OR
- · Functional characterization of the scaffolding protein Dystroglycan at inhibitory synapses across the brain in mouse models of dystroglycanopathy.
- · Identified novel interacting partners of Dystroglycan in the central nervous system.

2018 2014

#### Staff Research Associate

Zito & Fioravante Labs. UC Davis

- O Davis, CA
- · Characterization of genetically encoded fluorescent glutamate sensors using 2-photon glutamate uncaging.
- · Elucidation of a novel protein signaling cascade in non-ionotropic NMDA receptor mediated LTD.

2014 2011

#### Undergraduate Research Assistant

Trimmer & Trainor Labs, UC Davis

O Davis, CA

### CONTACT INFO

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github.com/jnjahncke

**(D)** 0000-0003-2319-6109

#### **SKILLS**

</>/> R, Python, Bash, Git

✓ Statistical analysis

■ IHC + Microscopy

Slice electophysiology

**Biochemistry** 

▼ Mouse genetics

Extended skills: genetic manipulation (in mouse), immunohistochemistry, confocal microscopy, electrophysiology, biochemistry, immunoprecipitation, SDS-PAGE, western blot, virus design, intracerebroventricular virus injection, primer design, PCR, 2photon microscopy, glutamate uncaging, organotypic slice culture, biolistic transfection, genetically encoded fluorescent biosensors. experimental design, data analysis, figure design, Adobe Photoshop, Adobe Illustrator, R, Python, Bash, Git

#### **REFERENCES**

Kevin M. Wright, PhD

Vollum Institute, OHSU

wrighke@ohsu.edu

Eric Schnell, MD, PhD

• Anesthesiology and Perioperative Medicine, School of Medicine, OHSU

Schneler@ohsu.edu

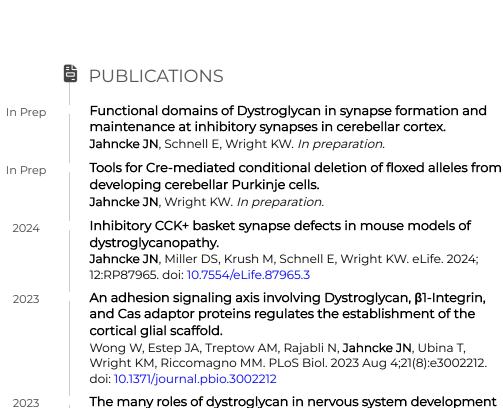
Karen Zito, PhD

• Center for Neuroscience, UC Davis

■ kzito@ucdavis.edu

This resume was made with the R package **pagedown**.

Last updated on 2024-06-17.



and function.

2022

2020

2017

2024

Wright KM, Riccomagno MM. PLoS Biol. 2023 Aug 4;21(8):e3002212. doi: 10.1371/journal.pbio.3002212 The many roles of dystroglycan in nervous system development

Jahncke JN, Wright KW. Developmental Dynamics. 2023; 252(1): 61-80. doi: 10.1002/dvdy.516

Shared and Distinct Functional Effects of Patient-Specific Tbrl Mutations on Cortical Development.

Co M, Barnard RA, Jahncke JN, Grindstaff S, Fedorov LM, Adey AC, Wright KM, O'Roak BJ. Journal of Neuroscience 14 September 2022, 42 (37) 7166-7181; doi: 10.1523/JNEUROSCI.0409-22.2022

Molecular Mechanisms of Non-ionotropic NMDA Receptor Signaling in Dendritic Spine Shrinkage.

Stein IS, Park DK, Flores JC, Jahncke JN, Zito K. Journal of Neuroscience 22 April 2020, JN-RM-0046-20; doi: 10.1523/JNEUROSCI.0046-20.2020

A Dual Role for the RhoGEF Ephexin5 in Regulation of Dendritic Spine Outgrowth.

Hamilton AM, Lambert JT, Parajuli LK, Vivas O, Park DK, Stein IS, Jahncke JN, Greenberg ME, Margolis SS, Zito K. Molecular and Cellular Neuroscience 80 (2017): 66-7 doi: 10.1016/j.mcn.2017.02.001

## TALKS

A functional role for Dystroglycan at inhibitory synapses across multiple brain regions

Dissertation Defense Portland, OR

A conserved role for Dystroglycan at inhibitory synapses across 2023 multiple brain regions

> Portland, OR Vollum Works In Progress

Inhibitory Basket Synapse Formation in Mouse Models of 2023 Dystroglycanopathy

Portland, OR Vollum Works In Progress

A functional role for Dystroglycan at inhibitory cerebellar 2021 synapses

Vollum Works In Progress



#### **HONORS**

2023 Vollum/NGP Paper of the Year

2023-2024 OHSU School of Medicine N.L. Tartar Trust Research Fellowship

2020-2023 Ruth L. Kirschstein National Research Service Award

2020 NSF GRFP Honorable Mention

ARCS Foundation Scholar

Phi Beta Kappa



2022   2020	Alliance for Visible Diversity (AVDS)  Communications Committee Member   ◆ Portland, OR
2022   2019	OHSU Graduate School Organization (GSO)  Peer Mentoring Program  Peer Mentor  Portland, OR
2020   2019	Women In Science PDX (WIS)  STEMpowerment Committee Member   ◆ Portland, OR
2019   2018	NGP Alumni Invite Committee  Committee Member   Portland, OR
2018   2015	Brain Awareness Week - Davis Chapter Event Organizer, Volunteer  • Davis, CA
2015	UC Davis Neurobiology, Physiology, & Behavior Club Guest Speaker  ◆ Davis, CA
2018   2014	Undergraduate Researcher Mentor  Mentored two undergraduates in the lab setting, overseeing their independent research projects and providing support through poster presentations, fellowship applications, and career development.  • Davis, CA