

Tess Oram

PATENT AGENT

Patents and
Innovations
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FOCUS AREAS

Patents and Innovations

EXPERIENCE

Tess B. Oram, Ph.D., is a patent agent in the Washington, D.C., office of Wilson Sonsini Goodrich & Rosati, where she is a member of the patents and innovations group. Tess specializes in patent prosecution and counseling across a range of multidisciplinary fields, including neuropharmacology and neurophysiology, bioinformatics, CRISPR gene editing and RNA therapies, molecular diagnostics, antibody and protein therapeutics, and machine learning.

Before joining Wilson Sonsini, Tess investigated the neural mechanisms of complex sensorimotor behaviors, utilizing a combination of quantitative/statistical behavioral analysis and advanced genetic and electrophysiological techniques. Tess's scientific investigations were conducted at the Howard Hughes Medical Institute | Janelia Research Campus and the Weizmann Institute of Science. She has co-authored over 10 peer-reviewed scientific articles.

CREDENTIALS

Education

- Postdoctoral Associate, Howard Hughes Medical Institute | Janelia Research Campus
- Ph.D., Weizmann Institute of Science
Department of Neuroscience
- M.Sc., Life Sciences, Weizmann Institute of Science
Department of Neuroscience
- B.Sc., Neuroscience with Honors, Brown University

Admissions

- U.S. Patent and Trademark Office

INSIGHTS

Select Publications

- Co-author with A. Tenzer, I. Saraf-Sinik, O. Yizhar, and E. Ahissar, "Co-Coding of Head and Whisker Movements by Both VPM and P0m Thalamic Neurons," 15(1) *Nature Communications* 5883, 2024
- Co-author with G.M. Card, "Context-Dependent Control of Behavior in *Drosophila*," 73 *Current Opinion in Neurobiology* 102523, 2022
- Co-author with S. El-Boustani, B.S. Sermet, G. Foustoukos, O. Yizhar, and C.C.H. Petersen, "Anatomically and Functionally Distinct Thalamocortical Inputs to Primary and Secondary Mouse Whisker Somatosensory Cortices," 11(1) *Nature Communications* 3342, 2020
- Co-author with A. Wallach, D. Deutsch, and E. Ahissar, "Predictive Whisker Kinematics Reveal Context-Dependent Sensorimotor Strategies," 18(5) *PLoS* e3000571, 2020
- Co-author with T.A. Zolnik, J. Ledderose, M. Toumazou, T. Trimbuch, C. Rosenmund, B.J. Eickholt, R.N.S. Sachdev, and M.E. Larkum, "Layer 6b is Driven by Intracortical Long-Range Projection

- *Neurons*,” 30(10) *Cell Reports* 3492-3505.e5, 2020
- Co-author with B.S. Sermet, P. Truschow, M. Feyerabend, J.M. Mayrhofer, O. Yizhar, J.F. Staiger, and C.C.H. Petersen, “Pathway-, Layer- and Cell-Type-Specific Thalamic Input to Mouse Barrel Cortex,” 8 *eLife* e52665, 2019
- Co-author with D. Sherman, D. Harel, and E. Ahissar, “Attention Robustly Gates a Closed-Loop Touch Reflex,” 27(12) *Current Biology* 1836-1843.e7, 2017
- Co-author with E. Ahissar, “Thalamic Relay or Cortico-Thalamic Processing? Old Question, New Answers,” 25(4) *Cerebral Cortex* 845-848, 2015
- Co-author with D. Sherman, D. Deutsch, G. Gordon, E. Ahissar, D. Harel, “Tactile Modulation of Whisking via the Brainstem Loop: Statechart Modeling and Experimental Validation,” 8(11) *PLoS One* e79831, 2013

TECHNICAL FLUENCY

Biological Sciences and Biotechnology

- Biophysics
- Neurobiology
- Virology

Therapeutics and Drug Discovery

- CRISPR
- Drug delivery
- Gene editing
- Gene therapy
- Neuropharmacology

Diagnostics and Medical Devices

- Bioinformatic
- Biomedical devices
- Biomedical engineering
- Biosensors
- Medical devices
- Medical imaging
- Neuroimaging
- Telemedicine technology
- Wearable analyte sensors

Engineering and Technology

- Machine learning

Genomics and Data Analysis

- Bioinformatics algorithms
- Computational biology
- Next-generation sequencing
- Sequencing
- Single-cell sequencing

Miscellaneous

- Biostatistics in clinical trials
- Fluorescence microscopy
- Litigation/PTAB/Oppositions
- Physiology
- Psychology