WILSON SONSINI

Rachel H. Wilson
PATENT AGENT

Patents and Innovations
Palo Alto
Boulder

rachel.hutchins.wilson@wsgr.com
303-256-5914

FOCUS AREAS

Biotech

Intellectual Property

Life Sciences

Patents and Innovations

EXPERIENCE

Dr. Rachel H. Wilson is a patent agent at Wilson Sonsini Goodrich & Rosati, where her work focuses on patents and innovations. Rachel has experience in molecular biology, protein engineering, genetics, sequencing, gene editing, pharmacokinetics, and toxicology.

Prior to joining the firm, Rachel was a postdoctoral fellow in Dr. Euan Ashley's laboratory at Stanford University, where she used CRISPR-based gene editing tools to model cardiac disease in an induced pluripotent stem cell model. At Stanford, she was also a fellow in the Office of Technology Transfer, where she wrote marketing abstracts, identified licensing candidates, and evaluated technology landscapes and portfolios.

Rachel's doctoral research in Dr. Christopher Bradfield's laboratory at the University of Wisconsin-Madison focused on understanding the relationship between tissue physiology and environmental chemicals through the construction and examination of genetic mouse models. During graduate school, she also taught numerous courses and developed a toxicology curriculum and certificate program for a sister university in Sierra Leone.

CREDENTIALS

Education

- Postdoctoral Research Fellowship, Department of Medicine, Stanford University, 2022
  NIH Heart, Lung, and Blood Training Grant; Bio-X Star Mentor Award
- Ph.D., Molecular and Environmental Toxicology, University of Wisconsin-Madison, 2020
  Wisconsin Distinguished Graduate Fellowship, NIH Environmental Health Sciences Training Grant, Global Initiative Award
- B.A., Molecular, Cellular, and Developmental Biology, University of Colorado, Boulder, 2014
  Cum Laude, HHMI Research Scholar

Admissions

- U.S. Patent and Trademark Office

INSIGHTS

Select Publications

- Co-author with C.J. Díaz-Díaz, et al., "The Aryl Hydrocarbon Receptor as a Regulator of Barrier Physiology," 8 *Comprehensive Toxicology* 132-147, 2018
- Co-author with M.N. Avilla, et al., "The Ah receptor: Adaptive metabolism, ligand diversity, and the xenokine model," 33(4) *Chemical research in toxicology* 860-879, 2020
- Co-author with C.A. Bradfield, et al., "Generation of an allelic series at the Ahr locus using an edited recombinant approach," 180(2) *Toxicological Sciences* 239-251, 2021

- Co-author with C.A. Bradfield, "Rodent genetic models of Ah receptor signaling," 53(3) *Drug Metabolism Reviews* 350-374, 2021

Select Speaking Engagements

- Speaker, "Variant effect mapping to improve diagnosis of RBM20 cardiomyopathy," World Congress of the International Society for Heart Research, International Society of Heart Research, Berlin, Germany, 2022
- Speaker, "Establishing foundational toxicology education in Sierra Leone using active learning modules," Annual Conference, Society of Toxicology, Baltimore, Maryland, USA, 2019