

## Erin Boyle Anderson

PATENT AGENT

Patents and  
Innovations  
San Diego

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### FOCUS AREAS

Biotech  
Life Sciences  
Patents and Innovations

### EXPERIENCE

Erin Boyle Anderson is a patent agent in the San Diego office of Wilson Sonsini Goodrich & Rosati, where she is a member of the patents and innovations practice. Erin applies her experience to patent prosecution, freedom-to-operate, and due diligence matters for clients in the biotechnology, diagnostics, and therapeutics industries.

Erin has drafted over 100 U.S. and Patent Cooperation Treaty applications, covering inventions relating to gene therapy, CRISPR, oligonucleotides, peptides and peptide conjugates, personalized medicine, and diagnostics. She has also prosecuted hundreds of U.S. and foreign patent applications, and has performed dozens of freedom-to-operate, diligence, and patent landscape analyses.

Prior to her career in patent law, Erin earned a Ph.D in development, regeneration, and stem cell biology from the University of Chicago. Her graduate work focused on understanding the genetic and developmental factors regulating the migration of fin precursors in zebrafish embryos. This work involved using tools from cell biology, molecular biology, genetics, genomics, and the creation of CRISPR mutants. Prior to graduate school, Erin also worked in *Drosophila* genetics and plant genetics.

### CREDENTIALS

#### Education

- Ph.D., Development, Regeneration and Stem Cell Biology, University of Chicago, 2019
- B.S., Biological Sciences, University of Notre Dame, 2013

#### Admissions

- U.S. Patent and Trademark Office

### INSIGHTS

#### Select Publications

- Co-author with Q. Mao and R. Ho, "Tbx5a and Tbx5b paralogues act in combination to control separate vectors of migration in the fin field of zebrafish," 481 *Developmental Biology* 201-214, 2022
- Co-author with L. Mao and R. Ho, "Anterior lateral plate mesoderm gives rise to multiple tissues and requires tbx5a function in left-right asymmetry, migration dynamics, and cell specification of late-addition cardiac cells," 724 *Developmental Biology* 52-66, 2021
- Co-author with R. Ho, "A transcriptomics analysis of the *Tbx5* paralogues in zebrafish," 13(12) *PLoS ONE* e0208766, 2018
- Co-author with J.D. Steimle, S.A. Rankin, C.E. Slagle, J. Bekeny, A.B. Rydeen, S. Sun-Kin Chan, J. Kweon, X.H. Yang, K. Ikegami, R.D. Nadadur, M. Rowton, A.D. Hoffmann, S. Lazarevic, W. Thomas, M.E. Horb, L. Luna-Zurita, R. Ho, M. Kyba, B. Jensen, A.M. Zorn, F.L. Conlon, and I.P.

Moskowitz, "An Evolutionarily conserved *Tbx5-Wnt2/2b* pathway orchestrates cardiopulmonary development," 115(45) *PNAS* E10615-E10624, 2018

## TECHNICAL FLUENCY

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### Biological Sciences and Biotechnology

- Biologics
- Cell biology
- Genetics
- MicroRNA (miRNA) research
- Molecular biology
- Phage therapy

### Therapeutics and Drug Discovery

- CRISPR
- Gene therapy

### Genomics and Data Analysis

- Next-generation sequencing
- Sequencing

### Miscellaneous

- Fluorescence microscopy