

## Mengmeng Zhang

ASSOCIATE

Patents and  
Innovations  
*Boston*

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### FOCUS AREAS

Intellectual Property  
Life Sciences  
Patents and Innovations

### EXPERIENCE

Dr. Mengmeng Zhang is an associate in the Boston office of Wilson Sonsini Goodrich & Rosati, where she is a member of the patents and innovations practice. Her technical expertise spans across a variety of fields, including immuno-oncology, biochemistry, molecular biology, chemical biology, and pharmacogenetics.

Prior to joining the firm, Mengmeng was a research fellow at the Wyss Institute of Harvard University, where she developed DNA-based diagnostic tools for circulating tumor DNA detection and co-founded a start-up company for cancer diagnosis using liquid biopsy. Before joining the Wyss Institute, she was a postdoctoral fellow in Dr. Randy King's laboratory at Harvard Medical School. In this role, she worked on developing imaging-based small molecule inhibitor screening methods for anaphase-promoting complex and studied mechanisms of mitotic exit.

Mengmeng earned her Ph.D. degree in Biochemistry from the University of Texas at Austin. During her doctoral studies, she conducted research on the mechanisms and structures of several key phosphatases involved in the post-translational modification of RNA polymerase II. She also worked on identifying small molecule inhibitors for one of the phosphatases that is involved in neuronal gene silencing. While attending graduate school, she conducted research on genetically manipulating immune cells in the tumor microenvironment for cancer therapy, focusing on macrophages.

### CREDENTIALS

#### Education

- J.D., Suffolk University Law School, 2022  
*Cum Laude, Intellectual Property Law Concentration with Distinction, Dean's List*
- Postdoctoral Research Fellowship, Harvard Medical School and Wyss Institute  
2013-2016
- Ph.D., Biochemistry, University of Texas at Austin, 2012
- M.S., Biological Sciences, Clemson University, 2008
- B.E., Bioengineering, Shanghai Jiao Tong University, China, 2006

#### Admissions

- State Bar of Massachusetts
- U.S. Patent and Trademark Office

### INSIGHTS

#### Select Publications

- Co-author, "Structure of *Saccharomyces cerevisiae* Rtr1 reveals an active site for an atypical phosphatase," 9(147) *Science Signaling*, 2016

- Co-author, "Chemical Tools To Decipher Regulation of Phosphatases by Proline Isomerization on Eukaryotic RNA Polymerase II," 10(10) *ACS Chemical Biology* 2405-14, 2015
- Co-author, "Synergistic blockade of mitotic exit by two chemical inhibitors of the APC/C," 514(7524) *Nature* 646-9, 2014
- Co-author, "Viewing Serine/Threonine Protein Phosphatases through the Eyes of Drug Designers," 280(19) *FEBS Journal* 4739-60, 2013
- Co-author, "Structural and kinetic analysis of the prolyl isomerization/phosphorylation cross-talk in the CTD code," 7(8) *ACS Chemical Biology* 1462-70, 2012
- Co-author, "A pharmacogenetic study of risperidone on histamine H3 receptor gene (HRH3) in Chinese Han schizophrenia patients," 26(6) *Journal of Psychopharmacology* 813-8, 2011
- Co-author, "Selective inactivation of a human neuronal silencing phosphatase by a small molecule inhibitor," 6(5) *ACS Chemical Biology* 511-9, 2011
- Co-author, "Crystal Structure of Ssu72, an essential eukaryotic phosphatase specific for the C-terminal domain of RNA polymerase II, in complex with a transition state analogue," 434(3) *Biochemical Journal* 435-44, 2011
- Co-author, "Bio-molecular architects: a scaffold provided by the C-terminal domain of eukaryotic RNA polymerase II," *Nano Reviews*, 2010
- Co-author, "Structural and functional analysis of the phosphoryl transfer reaction mediated by the human small C-terminal domain phosphatase, Scp1," 19(5) *Protein Science* 974-86, 2010

## TECHNICAL FLUENCY

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### Biological Sciences and Biotechnology

- Antibody
- Antigen presentation
- Biochemical assays
- Biochemistry
- Biologics
- Cancer biology
- Cancer therapeutics
- CAR-T cells
- Cell biology
- Cell culture products
- Cell therapy
- Cellular immunology
- Immuno-oncology
- Immunobiology
- Immunology
- Molecular biology
- Molecular genetics
- PCR
- Proteomics
- T and B cell biology
- T cell biology

### Therapeutics and Drug Discovery

- Gene editing
- Immunotherapy targets
- Pharmacogenomics
- Vaccines

### Diagnostics and Medical Devices

- Diagnostics
- Point-of-care testing (POCT)

### Chemistry and Material Science

- Protein engineering

### Genomics and Data Analysis

- Next-generation sequencing

- Sequencing
- Single-cell sequencing

## **Miscellaneous**

- Cancer
- Fluorescence microscopy
- Infectious diseases