

# WILSON SONSINI

## August Li

PATENT AGENT

Patents and  
Innovations  
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### FOCUS AREAS

Intellectual Property  
Life Sciences  
Patents and Innovations

### EXPERIENCE

T. August Li 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 practice. With extensive interdisciplinary research experience in molecular and clinical pharmacology, and additional focuses in glycobiology, neuroscience, and immunology, August assists clients in preparation and prosecution of patent applications.

Prior to joining the firm, August trained under Dr. Ronald Schnaar at the Johns Hopkins University, where she discovered anti-inflammatory proteoglycans that engage human Siglecs in the esophagus, airways, and brain. She also has studied the roles of gangliosides in glutamate receptor trafficking to understand the seizures and learning disabilities seen in patients with congenital disorders of ganglioside biosynthesis. Her technical expertise spans molecular biology, cell biology, biochemistry, and glycobiology. August obtained her Doctor of Pharmacy at Purdue University, where she gained profound knowledge of pathophysiology, pharmacotherapy, and drug development.

### CREDENTIALS

#### Education

- Ph.D., Pharmacology and Molecular Sciences, Johns Hopkins University
- Doctor of Pharmacy, Purdue University

#### Admissions

- U.S. Patent and Trademark Office

### INSIGHTS

#### Select Publications

- Lead author with A. Gonzalez-Gil, A.K. Awol, S.J. Ackerman, B.C. Orsburn, and R.L. Schnaar, "Sialylated keratan sulfates on MUC5B are Siglec-8 ligands in the human esophagus," 34(10) *Glycobiology*, 2024
- Co-author with A. Gonzalez-Gil, K. Jean, and R.L. Schnaar, "Human sialoglycan ligands for immune inhibitory Siglecs," *Molecular Aspects of Medicine*, 2022
- Co-author with A. Gonzalez-Gil, R.N. Porell, S.M. Fernandes, E. Maenpaa, T. Li, P.C. Wong, K. Aoki, M. Tiemeyer, Z.J. Yu, B.C. Orsburn, N.N. Bumpus, R.T. Matthews, and R.L. Schnaar, "Human brain sialoglycan ligand for CD33, a microglial inhibitory Siglec implicated in Alzheimer's disease," 298(6) *J. Biol. Chem.* 101960, 2022
- Lead author with R. Schnaar, "Congenital Disorders of Ganglioside Biosynthesis," 156 *Prog Mol Biol Transl Sci.* 63-82, 2018
- Co-author with A. Gonzalez-Gil, R.N. Porell, S.M. Fernandes, H.E. Tarbox, H.S. Lee, K. Aoki, M. Tiemeyer, J. Kim, and R.L. Schnaar, "Isolation, identification, and characterization of the human

airway ligand for the eosinophil and mast cell immunoinhibitory receptor Siglec-8," 20 *J Allergy Clin Immunol.* 31107-6, 2020

- Co-author with H. Lee, A. Gonzales-Gil, V. Drake, R.L. Schnaar, and J. Kim, "Induction of the endogenous sialoglycan ligand for eosinophil death receptor Siglec-8 in chronic rhinosinusitis with hyperplastic nasal polyposis," *Glycobiology*, 2021
- Co-author with Y. Wang, S. Tang, K.E. Harvey, A.E. Salyer, E.K. Rantz, M.A. Lill, and G.H. Hockerman, "Molecular Determinants of the Differential Modulation of Cav1.2 and Cav1.3 by Nifedipine and FPL 64176," 94(3) *Mol Pharmacol* 973-983, 2018

## TECHNICAL FLUENCY

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### Biological Sciences and Biotechnology

- Antibody
- Antigen presentation
- Biochemical assays
- Biochemistry
- Bioconjugation
- Biologics
- Cancer biology
- Cancer therapeutics
- CAR-T cells
- Cell biology
- Cell culture products
- Cell therapy
- Cellular biology
- Cellular immunology
- Epigenetics
- Genetics
- Glycobiology
- Immuno-oncology
- Immunobiology
- Immunology
- Microbiology
- MicroRNA (miRNA) research
- Molecular biology
- Molecular genetics
- Neurobiology
- PCR
- T and B cell biology
- T cell biology
- T cell immunology
- Virology

### Therapeutics and Drug Discovery

- Antimicrobial agents
- Biosimilars
- CRISPR
- Drug conjugates
- Drug conjugates based drug discovery
- Drug delivery
- Gene editing
- Gene therapy
- Immunotherapy targets
- Neuropharmacology
- Peptide therapeutics
- Pharmacodynamics
- Pharmacogenomics
- Pharmacokinetics
- Pharmacology
- RNA interference (RNAi)
- Small molecule synthesis
- Small molecules
- Vaccines

## **Diagnostics and Medical Devices**

- Biomedical devices
- Diagnostics
- Medical devices
- Point-of-care testing (POCT)

## **Chemistry and Material Science**

- Chemoenzymatic synthesis

## **Miscellaneous**

- Cancer
- COVID 19
- Fluorescence microscopy
- Formulations
- Infectious diseases
- PharmD
- Physiology