

WILSON SONSINI

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PATENT AGENT

Patents and
Innovations
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FOCUS AREAS

Intellectual Property

Life Sciences

Patents and Innovations

EXPERIENCE

Dr. Weigang Lu is a patent agent in the Boston office of Wilson Sonsini Goodrich & Rosati, where he is a member of the patents and innovations practice. His technical expertise spans across a variety of fields, including biotechnology, pharmaceuticals, and chemistry.

Prior to joining Wilson Sonsini, Weigang was a patent agent in another law firm, where he gained extensive experience in patent prosecution and IP due diligence in areas including antibodies, diagnostics, RNA therapeutics, gene/cell therapies, small molecule drugs, polymers, and batteries. Before his legal career, Weigang was a postdoctoral fellow in the Department of Immunology at Harvard Medical School, where he investigated use of gut microbiome-related molecules to improve immuno-oncology. During his doctoral training at the Complex Carbohydrate Research Center at the University of Georgia, Weigang studied human glycan synthesis and glycobiology.

CREDENTIALS

Education

- Ph.D., Organic Chemistry, University of Georgia, 2018
- M.S., Pharmaceutical Sciences, Peking University, 2013
- B.S., Pharmaceutical Science, Peking University, 2011

Admissions

- U.S. Patent and Trademark Office

INSIGHTS

Select Publications

- Co-author, "The 3-O-sulfation of heparan sulfate modulates protein binding and lyase degradation," 118 *Proc. Natl. Acad. Sci. USA* 1-12, 2021
- Co-author, "Fully Synthetic Heparan Sulfate-Based Neural Tissue Construct That Maintains the Undifferentiated State of Neural Stem Cells," 14 *ACS Chemical Biology* 1921-1929, 2019
- Co-author, "Controlled Chemoenzymatic Synthesis of Heparan Sulfate Oligosaccharides," 57 *Angew. Chem. Intl. Ed.* 5340-5344, 2018
- Co-author, "Negative Electron Transfer of Dissociation Sequencing of 3-O-Sulfation Containing Heparan Sulfate Oligosaccharides," 29 *J. Am. Soc. Mass. Spectrom.* 1262-1272, 2018
- Co-author, "Heparan Sulfate Microarray Reveals Heparan Sulfate-Protein Binding Exhibits Different Ligand Requirements," 139 *J. Am. Chem. Soc.* 9534-9543, 2017
- Co-author, "Integrated Approach to Identify Heparan Sulfate Ligand Requirements of Robo1," 138 *J. Am. Chem. Soc.* 13059-13067, 2016
- Co-author, "General Aspects in O-Glycosidic Bond Formation," Chapter 3, *Glycochemical Synthesis: Strategies and Applications* 69-95, 2016