WILSON SONSINI

Nicole Zeinstra

PATENT AGENT

Patents and Innovations

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FOCUS AREAS

Patents and Innovations

EXPERIENCE

Dr. Nicole Zeinstra is a patent agent in the Palo Alto office of Wilson Sonsini Goodrich & Rosati, where her work focuses on patents and innovations. Her background includes cell therapy, stem cell biology, tissue engineering, molecular biology, protein engineering, immunology, and medical imaging.

Prior to joining the firm, Nicole earned her Ph.D. in bioengineering from the University of Washington in the labs of Professors Charles Murry and Ying Zheng. Her research focused on engineering thick vascularized patches for cardiac repair. During graduate school, she was also a venture analyst at Washington Research Foundation & WRF Capital, where she assessed scientific and market potential of life sciences innovations.

CREDENTIALS

Education

- Ph.D., Bioengineering, University of Washington
  NIH Ruth L. Kirschstein National Research Service Award Individual Predoctoral Fellowship (F31), UW Bioengineering Cardiovascular Training Grant, UW Institute for Stem Cell and Regenerative Medicine Fellow
- B.S., Double Major in Chemical-Biological Engineering and Biology, Massachusetts Institute of Technology, 2016
  MIT Bioengineering Research and Innovation Scholar, NCAA Postgraduate Scholar in Track and Field, CoSIDA Academic All-American in Cross Country/Track and Field

Admissions

- U.S. Patent and Trademark Office

INSIGHTS

Select Publications

- Lead author with A. L. Frey, Z. Xie, L. P. Blakely, R. K. Wang, C. E. Murry, and Y. Zheng, “Stacking thick perfusable human microvascular grafts enables dense vascularity and rapid integration into infarcted rat hearts,” 301 *Biomaterials* 122250, 2023
- Lead author with M.A. Redd, W. Qin, W. Wei, A. Martinson, Y. Wang, Y. Zheng, et al., “Patterned human microvascular grafts enable rapid vascularization and increase perfusion in infarcted rat hearts,” 10(1) *Nature Communications* 584, 2019
- Co-author with P. Tang, M.A. Kirby, N. Le, Y. Li, G.N. Lu, R.K. Wang, et al., “Polarization sensitive optical coherence tomography with single input for imaging depth-resolved collagen organizations,” 10(1) *Light: Science & Applications* 237, 2021