

WILSON SONSINI

Kelsey MacConaghy

PATENT AGENT

Patents and
Innovations
SOMA

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FOCUS AREAS

Intellectual Property

Life Sciences

Patents and Innovations

EXPERIENCE

Dr. Kelsey MacConaghy is a patent agent in the SOMA office of Wilson Sonsini Goodrich & Rosati, where she focuses on patent prosecution and due diligence matters related to biotechnology and clean technology.

Kelsey received her Ph.D. in chemical engineering from the University of Colorado Boulder, where she investigated photonic crystal hydrogels for biosensing applications. Her dissertation focused on the development and characterization of polymeric materials, biomolecule conjugation and characterization, and biosensor development. Prior to joining the firm, Kelsey worked in a variety of industries, including the semiconductor, high purity gas, and pharmaceutical sectors. Her areas of technical expertise include thin film processing, upstream and downstream bioprocessing, biofuels, and sensor development.

CREDENTIALS

Education

- Ph.D., Chemical Engineering, University of Colorado, Boulder
- B.S., Chemical Engineering, Oregon State University

INSIGHTS

Select Publications

- Co-author with D.M. Chadly, M.P. Stoykovich, and J.L. Kaar, "Label-free detection of missense mutations and methylation differences in the p53 gene using optically diffracting hydrogels," 140(18) *Analyst* 6354-62, 2015
- Co-author with D.M. Chadly, M.P. Stoykovich, and J.L. Kaar, "Optically diffracting hydrogels for screening kinase activity in vitro and in cell lysate: impact of material and solution properties," 87(6) *Analytical chemistry* 3464-75, 2015
- Co-author with C.I. Geary, J.L. Kaar, and M.P. Stoykovich, "Photonic crystal kinase biosensor," 136(19) *Journal of the American Chemical Society* 6896-99, 2014