WILSON SONSINI

Adam J. Cole

ASSOCIATE

Patents and Innovations

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FOCUS AREAS

Diagnostics, Life Science Tools, and Deep Tech

Intellectual Property

Life Sciences

Patents and Innovations

EXPERIENCE

Dr. Adam Cole is an associate in the San Francisco office of Wilson Sonsini Goodrich & Rosati.

Adam's practice focuses on strategic intellectual property counseling in a variety of technical areas, including genomics, nucleic acid sequencing, molecular diagnostics, materials science, engineering, and other life science and biotechnological arts. He prosecutes patents both in the United States and internationally and conducts patent diligence, including the evaluation of patent portfolios and engaging in freedom-to-operate analyses.

Adam started with the firm as a scientific advisor in 2012, rose to senior patent agent, and transitioned to associate in 2019 after participating in the firm's law-school work-study program for patent agents. Prior to joining the firm, Adam was a postdoctoral fellow at Stanford University, where he studied novel nanomaterials as contrast agents in the early detection of cancer through the use of multi-modality molecular imaging. Adam's doctoral work at the University of Michigan College of Pharmacy focused on improving the delivery of magnetically targeted, therapeutic iron oxide nanoparticles to brain tumors.

Adam also teaches Patent Prosecution and the IP Practicum Clinic at UC Berkeley School of Law and is part of UC Berkeley Bakar Labs' Advisory Group.

CREDENTIALS

Education

- J.D., UC Berkeley School of Law, 2019
- Postdoctoral Fellowship, Molecular Imaging, Stanford University, 2012
- Ph.D., Pharmaceutical Sciences, University of Michigan, 2011
  American Foundation for Pharmaceutical Education National Predoctoral Fellowship, 2008-2011; President, Rackham Student Government; Co-founder, Student Advocates for Graduate Education (SAGE)
- M.S., Pharmaceutical Sciences, University of Michigan, 2007
- B.S.E., Chemical Engineering, University of Michigan, 2004
  Summa Cum Laude; Member, Tau Beta Pi National Engineering Honor Society; Member, Omega Chi Epsilon National Chemical Engineering Honor Society

Associations and Memberships

- Member, UC Berkeley Bakar Labs Advisory Group

Admissions

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

MATTERS

Select Life Sciences Work

- 10X Genomics in intellectual property matters

INSIGHTS

Select Publications

- Co-author with J. Jokerst, D. Van de Sompel, and S. Gambhir, "Gold Nanorods for Ovarian Cancer Detection with Photoacoustic Imaging and Resection Guidance via Raman Imaging in Living Mice," 6 *ACS Nano* 10366-77, 2012
- Co-author with L. Han, Y. Fu, J. Liu, and J. Wang, "Co-encapsulation and Sustained-Release of Four Components in Gingko Terpenes from Injectable PELGE Nanoparticles," 83 *Fitoterapia* 721-731, 2012
- Co-author with A. David and V. Yang, "Magnetically Targeted Nanoparticles for Brain Tumor Therapy: What Does the Future Hold?" 6 *Nanomedicine* 1133-1135, 2011
- Co-author with A. David, J. Wang, C. Galbán, and V. Yang, "Magnetic Brain Tumor Targeting and Biodistribution of Long-Circulating PEG-Modified, Cross-Linked Starch Coated Iron Oxide Nanoparticles," 32 *Biomaterials* 6291-6301, 2011
- Co-author with V. Yang and A. David, "Cancer Theranostics: The Rise of Targeted Magnetic Nanoparticles," 29 *Trends in Biotechnology* 323-332, 2011
- Co-author with A. David, B. Chertok, and V. Yang, "A Combined Theoretical and In Vitro Modeling Approach for Predicting the Magnetic Capture and Retention of Magnetic Nanoparticles In Vivo," 152 *Journal of Controlled Release* 67-75, 2011
- Co-author with A. David, J. Wang, C. Galbán, H. Hill, and V. Yang, "Polyethylene Glycol Modified, Cross-Linked Starch-Coated Iron Oxide Nanoparticles for Enhanced Magnetic Tumor Targeting," 32 *Biomaterials* 2183-2193, 2011
- Co-author with B. Chertok, A. David, and V. Yang, "Comparison of Electron Spin Resonance Spectroscopy and Inductively Coupled Plasma Optical Emission Spectroscopy for Biodistribution Analysis of Iron-Oxide Nanoparticles," 7 *Molecular Pharmaceutics* 375-385, 2010
- Co-author with L. Zhang, F. Yu, B. Chertok, A. David, J. Wang, and V. Yang, "Gum Arabic-Coated Nanoparticles for Potential Application in Simultaneous Magnetic Targeting and Tumor Imaging," 11 *AAPS Journal* 693-699, 2009
- Co-author with F. Yu, Y. Huang, and V. Yang, "The Artificial Peroxidase Activity of Magnetic Iron Oxide Nanoparticles and Its Application to Glucose Detection," 30 *Biomaterials* 4716-4722, 2009

TECHNICAL FLUENCY

Biological Sciences and Biotechnology

- Biochemical assays
- Biochemistry
- Bioconjugation
- Cancer therapeutics
- CAR-T cells
- Cell biology
- Cell culture products
- Cell therapy
- Cellular biology
- Epigenetics
- Genetics
- Genomics
- Metabolomics
- Microbiology
- MicroRNA (miRNA) research
- Molecular biology
- Molecular genetics
- PCR
- Proteomics

Therapeutics and Drug Discovery

- Drug delivery
- Gene editing
- Gene therapy

- Pharmacokinetics
- RNA interference (RNAi)

Diagnostics and Medical Devices

- Biomedical devices
- Biomedical engineering
- Biosensors
- Diagnostics
- Medical devices
- Medical imaging
- Neuroimaging
- Point-of-care testing (POCT)
- Wearable analyte sensors

Chemistry and Material Science

- Chemistry
- Materials chemistry
- Nanochemistry
- Photovoltaic materials
- Polymers
- Process chemistry
- Protein engineering

Engineering and Technology

- Materials science
- Microfluidics

Genomics and Data Analysis

- Functional genomics
- Next-generation sequencing
- rDNA
- Sequencing
- shRNA
- Single-cell sequencing

Miscellaneous

- Engineered foods
- Food science
- Formulations