



Sharon E. Crane, Ph.D.

Member

Sharon E. Crane, Ph.D.'s practice specializes in post grant trials at the Patent Trial and Appeal Board (PTAB), litigation, and patent prosecution for clients in the biotechnology area, and she utilizes her comprehensive scientific knowledge when working with clients in all phases of patent law.

Dr. Crane has substantial experience in preparing and prosecuting patent applications in the biotechnology and chemical arts for clients ranging from independent inventors to multinational biotech companies. She devotes a significant percentage of her time to patent interferences, post grant proceedings, including inter partes review (IPR) and post grant review (PGR) proceedings, and appeals before the PTAB and Court of Appeals for the Federal Circuit. She has also represented clients in patent litigation in the federal district courts. In all matters, Dr. Crane's extensive scientific background assists her in understanding the technical aspects of a client's intellectual property at a deeper level.

Recently, Dr. Crane assisted client 454 Life Sciences, now a part of Roche Molecular Diagnostics, in a complete and total victory over Johns Hopkins in a district court appeal of an interference decision that awarded priority to 454 Life Sciences. Dr. Crane and colleagues also represented 454 Life Sciences in the underlying interference. The interference involved a single count and the interfering subject matter related to the 454 sequencer, namely claims directed to methods for analyzing nucleic acid sequences comprising the use of aqueous microreactors in a water-in-oil emulsion, where a plurality of microreactors each contain a single DNA fragment molecule, a single bead capable of hybridizing to the DNA fragment, and reagents to perform DNA



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Education

J.D., The George Washington
University Law School - 1994

Ph.D., Molecular Biology and
Genetics, Johns Hopkins School of
Medicine - 1990

B.A., Behavioral Biology, Johns
Hopkins University - 1984

Bar Admissions

New Jersey

New York

District of Columbia

U.S. Patent and Trademark Office

Court of Appeals for the Federal
Circuit

Supreme Court

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Washington, DC
Super Lawyers and
Rising Stars Lists**



amplification. The 454 sequencer was an important technological advance released in 2005.

Dr. Crane received a B.A. in behavioral biology from Johns Hopkins University, where she researched learning and memory. Dr. Crane's graduate training was in the Neuroscience Training Program at the University of Virginia and in the Biochemistry, Cellular and Molecular Biology Program at Johns Hopkins University School of Medicine, where she received her Ph.D. in molecular biology and genetics and focused on the study of lentiviruses. She received her J.D. from The George Washington University Law School.

Dr. Crane is a member of the American Bar Association (ABA) Intellectual Property Law Section, a member of the American Intellectual Property Law Association (AIPLA) USPTO Inter Partes Patent Proceedings and Biotechnology committees, and the chair of Fédération Internationale des Conseils en Propriété Intellectuelle (FICPI) CET Group 5-Biotechnology and Pharmaceuticals.

Relevant Experience

- Asterias Biotherapeutics, Inc. v. Viacyste, Inc.
- Cellectis S.A. v. Precision Biosciences Inc. et al
- Precision Biosciences Inc. et al v. Cellectis S.A.
- IPR2014-00337 – Represented The Board of Trustees of the Leland Stanford Junior University as Patent Owner in an IPR proceeding filed by Sequenom over patent 8195415, noninvasive diagnosis of fetal aneuploidy by sequencing. All claims were denied institution.
- IPR2013-00390 – Represented The Board of Trustees of the Leland Stanford Junior University as Patent Owner in an IPR proceeding filed by Sequenom over patent 8195415, noninvasive diagnosis of fetal aneuploidy by sequencing.
- IPR2014-00160 – Represented Endo Pharmaceuticals as Patent Owner in an IPR proceeding filed by Amneal Pharmaceuticals over patent 7851482, method for making analgesics.
- IPR2013-00308 – Represented The Board of Trustees of the Leland Stanford Junior University as Patent Owner in an IPR proceeding filed by Ariosa Diagnostics over patent 8296076, noninvasive diagnosis of fetal aneuploidy by sequencing.
- IPR2016-00577 – Represented Finchimica S.p.A. as Patent Owner in an IPR proceeding filed by Adama Americas, Adama Makhteshim, Makhteshim Agan of North America, ADAMA Agricultural Solutions, and Control Solutions over patent 8304559, method for the synthesis of 5-amino-1-phenyl-3-cyano-4-trifluoromethyl sulfinyl.
- PGR2017-00020 – Represent Myriad Genetics, Oyster Point Blvd., and Crescendo Biosciences as Petitioners in a PGR proceeding against L. Douglas Grama over patent 9387246,

treatment for methods for rheumatoid arthritis.

Areas of Concentration

Counseling

Litigation

- Appellate
- Federal District Court
- Hatch-Waxman
- Patent Interference

Patent Prosecution

- Biology and Biotechnology
- Biomedical
- Chemical
- Pharmaceutical

Post-Grant Trial Practice

Publications & Presentations

Author, "Subject Matter Eligibility Update: Proposals to Modify 35 USC 101," Fédération Internationale des Conseils en Propriété Intellectuelle (FICPI), September 12, 2018

Panelist, "Subject Matter Eligibility in the U.S." for the panel "Is there a Coordinated Move in B+ and Elsewhere?," Fédération Internationale des Conseils en Propriété Intellectuelle (FICPI) World Congress, June 6, 2018 (Toronto, Canada)

Author, "USA Court of Appeals for the Federal Circuit Decision Concerning on sale bar in Helsinn Healthcare S.A. v. Teva Pharms. USA, Inc.," Fédération Internationale des Conseils en Propriété Intellectuelle (FICPI), August 23, 2017

Author, "The University of Rochester Overreaches," outs & ins, vol. 4, no. 2, 2004

Co-author, "Degeneracy in the Legal Code: Can the PTO and the Federal Circuit Reach a Consensus Regarding Patenting Biotech Inventions?," 4 The Journal of Biolaw and Business 39-42, 2000

Co-author, "Identification of the Transmembrane Fusion Domain in the Visna Virus Envelope," 185 Virology 488-492, 1992

Co-author, "Identification of Cell Membrane Proteins that Bind Visna Virus," 65 J. of Virology 6137-6143, 1991

Co-author, "Epitopes Responsible for Fusion and Virus Neutralization in the Glycoprotein of Ovine and Caprine Lentiviruses: A Challenge for Vaccine Development," AIDS Vaccine: Basic Research and Clinical Trials. Putney, S.D. and D. P. Bolognesi (Eds.). Marcel Dekker, Inc. pp. 319-338, 1990

Co-author, "Fusion and Neutralization Sites on Visna Virus are Separate Epitopes," Cell Biology of Virus Entry, Replication and Pathogenesis. Compans, R.W., A. Helenius and M. Oldstone (Eds.). Alan R. Liss, Inc. New York, pp. 1-12, 1989

Co-author, "Lentiviruses of Animals are Biological Models of the

Human Immunodeficiency Viruses," 5 Microbial Pathogenesis
149-157, 1988

Co-author, "Separate Epitopes in the Envelope of Visna Virus are
Responsible for Fusion and Neutralization: Biological Implications
for Anti-fusion Antibodies in Limiting Virus Replication," 62 J. of
Virology 2680-2685, 1987

Co-author, "Identification of Chromaffin Granule-Binding Proteins.
Relationship of the Chromobindins to Calelectrin, Synhibin, and
the Tyrosine Kinase" Substrates p35 and p36, 262 The Journal of
Biological Chemistry 1860-1868, 1987

Co-author, "Mnemonic Correlates of Unit Activity in the
Hippocampus," 399 Brain Res. 97-110, 1986

Co-author, "An Electrophysiological Method for Examining the
Effects of Potential Therapeutic Agents on Memory Function,"
444 Annals of the New York Academy of Sciences 494-495, 1985

Professional Affiliations, Honors & Recognition

Selected to the Washington, DC Super Lawyers list (2018-2021)

American Bar Association, Intellectual Property Law Section

American Bar Association, Post Grant and Inter Partes
Subcommittee

American Intellectual Property Law Association, Biotechnology
Committee

American Intellectual Property Law Association, Inter Partes
Patent Proceedings Committee

American Intellectual Property Law Association, Women in IP Law
Committee

Federal Circuit Bar Association

Chair of Fédération Internationale des Conseils en Propriété
Intellectuelle (FICPI) CET Group 5-Biotechnology and
Pharmaceuticals

Intellectual Property Owners Association

International Association for the Protection of Industrial Property

Maryland Patent Law Association
President 2001-2003; Vice President 1999-2001; Treasurer 1996-
1999

New York Intellectual Property Law Association

U.S. Bar - EPO Liaison Council
Chair, 2006-2008