

Elena S. Polovnikova, Ph.D.

Senior Associate

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Services

Asset Creation - Prosecution & Counseling

Intellectual Property

Industries

Health & Life Sciences

Elena Polovnikova focuses her practice on patent prosecution and counseling.

Prior to joining the firm, Elena conducted research in protein chemistry, biophysics, neurobiology, mammalian signal transduction, enzymology, and structural biology. She was trained in protein x-ray crystallography at Purdue University Markee Structure Group, and worked as a research scientist at Georgia Tech Research Institute. Elena also has research experience in molecular biology, yeast genetics, microbiology, immunochemistry, and biosensors.

Elena was recognized as one of the "Best Lawyers: Ones to Watch" in 2025 for Patent Law and again in 2026 and 2027 for Intellectual Property Law, Life Sciences Practice, and Patent Law by *The Best Lawyers in America*®.

Experience

Represents Children’s Medical Center Corporation, which is affiliated with Harvard University, and have prepared and prosecuted to issuance numerous patent applications relating to antiangiogenic proteins, nucleic acid molecules and pharmaceuticals for the treatment of cancer and other angiogenic diseases. For example, patents were granted on Endostatin and Angiostatin, which are protein biopharmaceuticals discovered in the laboratories of the late Judah Folkman, who hypothesized that cancer can be effectively treated by inhibiting neovascularization.

Represents Vanderbilt University in U.S. and international (China, Australia and European Patent Office) patent prosecutions in the area of methods of cancer treatment, biologically-derived compounds having anti-cancer, anti-angiogenic and other valuable pharmacological activities, anti-cancer vaccines and antibodies.

Represent the U.K. Ministry of Defence (MOD), which is responsible for the military and homeland security functions of the United Kingdom, and have prosecuted patent applications for aerospace, defense,

biotechnology and chemical technologies. Also represents the technology transfer company affiliated with the MOD whose mission is to commercialize technologies having non-military applications.

Represents Bioniche Life Sciences Inc., a pharmaceutical manufacturer, on intellectual property issues including design and implementation of global patent strategy, preparing and prosecuting patent applications and assisting in IP due diligence.

Education

Georgia State University, College of Law J.D. (2009)

Purdue University Ph.D. (2000) Biochemistry and Molecular Biology

Lomonosov Moscow State University B.S. (1993) Biochemistry

Lomonosov Moscow State University M.S. (1993) Biochemistry

Admissions

Georgia (2011)

Court Admissions

U.S. Patent and Trademark Office (2002)

Insights

News Releases

Kilpatrick Attorneys Recognized in 2027 Edition of Best Lawyers: Ones to Watch® in America
August 20, 2026

News Releases

131 Kilpatrick Attorneys Recognized in 2025 Edition of Best Lawyers: Ones to Watch in America®
August 16, 2024

News Releases

Kilpatrick Townsend's Media Report May 13-19, 2016
May 19, 2016

Publication

Teaching Points from the New USPTO Life Sciences Examples
May 16, 2016