BANNER WITCOFF



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Stephanie Majkut, Ph.D., brings an interdisciplinary scientific background to Banner Witcoff. She leverages that background to prepare and prosecute patents in a range of fields, from computer technologies and electronics to biomedical imaging and measurement devices.

Prior to joining Banner Witcoff, Stephanie worked as a Technical Specialist and Patent Agent at a boutique IP firm for 5 years, where she engaged in all aspects of prosecuting U.S. and foreign patent applications, from market analysis and prior art search through grants. Her practice was evenly split between the electromechanical, biological and chemical fields and in particular included display devices, nanomaterials, optics, imaging devices and analysis, medical devices, and small molecules.

Prior to working in patent law, Stephanie earned her Ph.D. in Physics and worked as a Post-doctoral researcher at the University of Pennsylvania with honorific fellowship support from the National Institutes of Health. Her research focused on measuring mechanical and structural changes of heart tissue and cells during embryonic development through in vitro and in situ imaging and automated image analysis and tissue mass spectroscopy. Her research was presented in international scientific conferences and published in scientific journals such as Current Biology, Nature Communications, Biomechanics and Modeling in Biology.

Published Articles

- Stress sensitivity and mechanotransduction during heart development, Current Biology, May 2014

- Heart-specific stiffening in early embryos parallels matrix and myosin expression to optimize beating, Current Biology, December 2013
- Cardiomyocytes from late embryos and neonates do optimal work and striate best on substrates with tissue-level elasticity: metrics and mathematics, Biomechanics and Modeling in Mechanobiology, November 2012

Education

Harvey Mudd College
2006, B.S., Physics, *with Distinction*

Delft University of Technology
2008, MSc, Applied Physics

University of Pennsylvania
2013, Ph.D., Physics

Admissions

Court Admissions
U.S. Patent and Trademark Office

Industries

Chemistry + Chemical Engineering
Life Sciences + Pharmaceuticals
Medical Devices