

## Rebecca S. Estrada

### Patent Agent II

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Rebecca Estrada is a Patent Agent at the Intellectual Property Department with Foley & Lardner LLP. Rebecca is based in the New York office where she is a member of the firm's Intellectual Property Practices. She is a registered Patent Agent with a Ph.D. in Integrative Biology and an academic focus on molecular biology. She has experience in intellectual property, including patent drafting and prosecution, patent due diligence, technology licensing, landscape and clearance searches, and strategic global patent portfolio management, in the fields of life sciences, gene therapy, pharmaceuticals, medical devices, polymers, bedding products, sporting goods, packaging systems, and other mechanical devices.

Prior to joining Foley, Rebecca worked as a patent agent at a law firm in New York. In this role, she gained experience drafting patent applications on pharmaceutical formulations, methods of treatment, packaging devices, expandable materials, bedding products, and devices for monitoring the process of drying and adhesion. She also assisted in the preparation of IP related opinions (e.g. invalidity, non-infringement, FTO), and replied to office actions, prepared and filed appeals, and participated in Examiner interviews.

### Presentations and Publications

- Co-author, "Illumina v. Ariosa: Carving Out a New 'Bucket' of Section 101 Patent Eligible Claims." Fox Rothschild, IP Blog. (June, 2020)
- Co-author, "Promoter-enhancer looping and shadow enhancers of the mouse  $\alpha$ -crystallin locus." *Biol. Open* 7(12): bio.036897 (2018).
- Co-author, "BNIP3L/NIX is required for elimination of mitochondria, endoplasmic reticulum and Golgi apparatus during eye lens organelle-free zone formation." *Exp. Eye Res.* 174:173-184 (2018).
- Co-author, "Evolutionary Origins of Pax6 Control of Crystallin Genes." *Genome Biol. Evol.* 9(8):2075-2092 (2017).
- Co-author, "Programmed mitophagy is essential for the glycolytic switch during cell differentiation." *EMBO J.* 36(12):1688-1706 (2017).

- Co-author, "Pax6 associates with H3K4-specific histone methyltransferases Mll1, Mll2, and Set1a and regulates H3K4 methylation at promoters and enhancers." *Epigenetics Chromatin*. 9(1):37 (2016).
- Co-author, "Chromatin remodeling enzyme Snf2h regulates embryonic lens differentiation and denucleation." *Development*. 143(11):1937-47 (2016).
- Co-author, "Regulation of c-Maf and  $\alpha$ -Crystallin in Ocular Lens by Fibroblast Growth Factor Signaling." *J. Biol. Chem.* 291(8):3947-58 (2016).
- Co-author, "Lens Development and Crystallin Gene Expression." *Prog. Mol. Biol. Transl. Sci.* 134:129-67 (2015).
- Co-author, "Lens Biology and Biochemistry." *Prog. Mol. Biol. Transl. Sci.* 2015;134:169-201 (2015).
- Co-author, "Chaperone-independent mitochondrial translocation and protection by  $\beta$ -crystallin in RPE cells." *Exp. Eye Res.* 110:10-7 (2013).
- Co-author, " $\beta$ -crystallin/sHSP protects cytochrome c and mitochondrial function against oxidative stress in lens and retinal cells." *Biochim. Biophys. Acta.* 1820(7):921-30 (2012).
- Co-author, "Spatial expression patterns of autophagy genes in the eye lens and induction of autophagy in lens cells." *Mol. Vis.* 18:1773-86 (2012).
- Co-author, "Oxidative stress defense and repair systems of the ocular lens." *Front. Biosci. (Elite Ed)*. 4(1):141-55 (2012)

## Sectors

- [Health Care & Life Sciences](#)
- [Health Tech & Genomics](#)
- [Innovative Technology](#)
- [Pharmaceuticals](#)

## Practice Areas

- [Chemical, Biotechnology & Pharmaceutical](#)

## Education

- Florida Atlantic University (Ph.D., 2012)
- University of Liverpool, UK (MRes, with honors, 2007)
  - Physical Analysis of Biological Interactions at Surfaces
- University of Liverpool, UK (B.S., with honors, 2006)
  - Life Sciences Applicable to Medicine

## Admissions

- USPTO