



ROTHWELL, FIGG, ERNST & MANBECK, P.C.

1425 K Street, NW, Suite 800 Washington, D.C. 20005

**Tel:** (202) 783-6040 **Fax:** (202) 783-6031 **Email:** aharston@rfem.com

**Aydin H. Harston, Ph.D.**  
**Patent Agent**

Dr. Harston's practice is focused on patent prosecution, litigation, and opinion matters covering an array of technological fields including organic and inorganic chemistry; pharmaceutical, herbicidal, fungicidal, and plant growth compositions; hydrocarbon recovery compositions, methods and systems; genetic engineering; recombinant DNA technology; imaging; robotic systems; medical devices and equipment; implants; polymer chemistry and product manufacturing; corrosion-prevention; aircraft and satellite technology; quantum cascade laser technologies; biological purification systems and methods; peptide and protein engineering; materials science; mechanical devices; contraceptive formulations and methods; devulcanization techniques; antihistamine drugs; vaccines; liposome- and bacterial ghost-encapsulated drugs; conveyor systems; lubricant formulations; electronic components; food science; isomeric drugs; allergic rhinitis treatments; printer inks and toners; and so forth.

As a registered Patent Agent before the United States Patent and Trademark Office (USPTO), he participates in the prosecution of U.S. and foreign patent applications, carries out due diligence investigations, and evaluates patent portfolios.

Dr. Harston completed his Ph.D. in biochemistry at the University of Maryland, where he researched protein structures, interactions, and dynamics using nuclear magnetic resonance (NMR) and other biochemical techniques. He also investigated and used novel protein expression and purification techniques, particularly for increasing the purified yield of isotope-labeled proteins. Dr. Harston also has experience in scientific and business advising at a startup biotechnology firm in Maryland.

**Areas of Concentration**

- Litigation
- Patent Prosecution
  - Biotechnology
  - Chemical
  - Pharmaceutical
  - Mechanical

**Publications**

- Co-author, "Long-Lived States to Monitor Protein Unfolding by Proton NMR" *ChemPhysChem*, 12(15), (2011): 2729–2734.
- Co-author, "Perturbing the Ubiquitin Pathway Reveals How Mitosis Is Hijacked to Denucleate and Regulate Cell Proliferation and Differentiation *In Vivo*" *PLoS ONE*, 5(10), (2010): e13331.
- Co-Author, "Structure of the S5a:K48 Linked diubiquitin Complex and Its Interaction with Rpn13," *Mol. Cell*. 35(3), (2009):280-290.
- Co-Author, "Avid Interactions Underlie the K63-Linked Polyubiquitin Binding Specificities Observed for UBA Domains," *Nature Struct. Mol. Biol.* 16(8), (2009):883-889.

- Haririnia, A. et al., "Mutations in the Hydrophobic Core of Ubiquitin Differentially Affect its Recognition by Receptor Proteins," *Journal of Molecular Biology* 375, (2008):979-996.
- Haririnia, A. et al., "Mapping the interactions between Lys48- and Lys63-linked di-ubiquitins and a ubiquitin-interacting motif of S5a" *Journal of Molecular Biology* 368, (2007):753-766.
- Co-Author, "Personal Role Management: Overview and a Design Study of Email for University Students" Kaptelinin, V., Czerwinski, M. (Editors) *Beyond the Desktop Metaphor*, MIT Press, April 1, 2007.
- Co-Author, "Solution conformation of Lys63-linked di-ubiquitin chain provides clues to functional diversity of polyubiquitin signaling" *Journal of Biological Chemistry* 279, (2004):7055-7063.

### **Bar Admissions**

- U.S. Patent and Trademark Office