



BOSTON

28 State Street
Suite 700
Boston, MA 02109

T: 857.300.4009
F: 857.300.4001

Assistant

Tiana Stewart
857.300.4053

PRACTICE AREAS

Intellectual Property
Patents

INDUSTRIES

Life Sciences

EDUCATION

The Johns Hopkins University
School of Medicine, Ph.D.
Biological Chemistry, 2016

Salisbury University, B.S.
Cellular and Molecular Biology,
2007

Elizabeth A. Kolar, Ph.D.

Technical Specialist | elizabeth.kolar@lathropgpm.com

Dr. Elizabeth Kolar is a technical specialist practicing in the area of biotechnology. Her practice includes patent preparation and prosecution, and she has extensive experience in freedom to operate, competitive landscape and patentability analyses. She assists a wide range of clients from biotechnology start-ups to global pharmaceutical companies. She also has experience assisting venture capital firms with due diligence reviews. Elizabeth has extensive knowledge in the areas of immunology, cell therapy, and gene therapy.

Elizabeth received her Ph.D. in Biological Chemistry from The Johns Hopkins University School of Medicine. There, her focus was on elucidation of the role of acyl-CoA synthetases in the development and progression of metastatic brain cancer. After graduate school, she was a post-doctoral fellow at Boston University's Medical School where she investigated the role of the putative fatty acid transporter CD36 in pancreatic beta-cells and the development of Type 2 Diabetes.

Presentations

- *Understanding the Role of Pancreatic CD36 in the Development of Type 2 Diabetes*, Experimental Biology, ASBMB Annual Meeting, San Diego, CA, 2018
- *Importance of Very Long Chain Acyl-CoA Synthetase 3 (ACSVL3) in Cholesterol Homeostasis and Lipid Raft Signaling in U87 Glioma Cells*, Experimental Biology, ASBMB Annual Meeting, San Diego, CA, 2012
- *Quantification of Nordihydroguaiaretic Acid (NDGA) in the Three Ploidy Levels of Larrea tridentata*, Botanical Society of America Annual Meeting, Chicago, IL, 2007

- *Development of Microsatellite Markers in Larrea (Zygophyllaceae): A New Way to Investigate the Evolutionary History of Larrea*, Botanical Society of America Annual Meeting, Austin, TX, 2005

Publications

- ACSVL3 depletion decreases glioma cell proliferation by altering the cell cycle and not by increasing apoptosis or autophagy. *In preparation*.
- Very long chain acyl-CoA synthetase 3 (ACSVL3) increases sphingolipid levels in U87 glioma cells regulating signaling from receptor tyrosine kinases. *In preparation*.
- BLM helicase ortholog Sgs1 is a central regulator of meiotic recombination intermediate metabolism. *Mol Cell*. **1**: 43-53, 2012.
- Ipl1/Aurora B kinase coordinates synaptonemal complex disassembly with cell cycle progression and crossover formation in budding yeast meiosis. *Genes Dev*. **18**: 2237-51, 2009.
- A noncanonical bromodomain in the AAA ATPase protein Yta7 directs chromosomal positioning and barrier chromatin activity. *Mol Cell Biol*. **17**: 4604-11, 2009.

News Releases

- Lathrop GPM Named Top Patent Firm by Juristat
March 20, 2023

Professional Affiliations

- American Association for the Advancement of Science, Member
- American Society of Biochemistry and Molecular Biology, Member

Honors

- T32 Post-Doctoral Fellowship, National Institutes of Health, 2017-2018
- F31 Pre-Doctoral Fellowship, National Institute of Neurological Disease and Stroke, 2011-2014
- Graduate Student and Postdoctoral Travel Award, ASBMB, 2012
- Young Botanist of the Year, Botanical Society of America, 2007
- Department of Biological Sciences Faculty Award, Salisbury University, 2007