



HEATHER N. EWING, PH.D.

ASSOCIATE

EDUCATION

University of Washington
School of Law
J.D. 2020

University of Washington
Organic and Biological
Chemistry
Ph.D. 2017

University of Montana
Chemistry
B.S. 2010 (with Honors)

INDUSTRY GROUPS

Biotechnology
Chemistry
Pharmaceuticals

SERVICES

Patent
IP Agreements & Licensing

BAR ADMISSIONS

Washington

BACKGROUND

Heather focuses her practice on patent preparation and prosecution of chemical, biotechnology, and pharmaceutical matters. Heather received her J.D. from the University of Washington (2020) where she was a student practitioner for the Entrepreneurial Law Clinic and an intern for the Washington Pro Bono Patent Network. She received a Ph.D. in Organic and Biological Chemistry from University of Washington (2017), and a B.S. (with Honors) in Chemistry from University of Montana (2010).

EXPERIENCE

Heather's legal experience at Seed IP includes drafting and prosecution of patent applications, as well as conducting patentability, landscape, and freedom to operate searches. As a student practitioner at the Entrepreneurial Law Clinic, Heather conducted client meetings including invention disclosures and IP counseling, prepared patent landscape analyses for CoMotion (the University of Washington's collaborative innovation hub), in addition to drafting memoranda analyzing patent, trademark, trade secret, and copyright issues. Additionally she spent a summer as a legal fellow at the Bill & Melinda Gates Foundation, where she supported the legal team on transactional and intellectual property law matters.

Prior to joining Seed IP, Heather completed graduate school at the University of Washington, where she designed and synthesized small molecule probes for the capture and identification of proteins, aided in adapting a fluorescence-based enzyme assay to a high-throughput screening format, and investigated the clearance, bio-distribution, and degradation of radio-labeled proteins *in vivo*. She also served as a laboratory technician at Promiliad BioPharma, Inc. in Missoula, MT where she used natural product derived starting materials as building blocks for the synthesis of drug candidates.

AFFILIATIONS

Heather is admitted to the Washington State Bar. She is a member of the Washington State Patent Law Association (WSPLA) and Life Science Washington.

PUBLICATIONS

Yun, B., Lee, H., Powell, R., Reisdorph, N., Ewing, H., Gelb, M.H., Hsu, K., Cravatt, B.F., Leslie, C.C. (2017) "Regulation of calcium release from the endoplasmic reticulum by the serine hydrolase ABHD2." *Biochem Biophys Res Commun.* 490(4):1226-31.

Yun, B., Lee, H., Ewing, H., Gelb, M.H., Leslie, C.C. (2016) "Off-target effect of the cPLA2a inhibitor pyrrophenone: Inhibition of calcium release from the endoplasmic reticulum." *Biochem Biophys Res Commun.* 479(1):61-6.

Ewing, H., Fernandez-Vega, V., Spicer, T.P., Chase, P., Brown, S., Scampavia, L., Roush, W., Riley, S., Rosen, H., Hodder, P., Lambeau, G., Gelb, M.H. (2016) "Fluorometric high-throughput screening assay for secreted phospholipases A2 using phospholipid vesicles." *J. Biomol. Screen.* 21(7):713-21.

Yun, B., Lee, H., Ghosh, M., Cravatt, B.F., Hsu, K., Bonventre, J.V., Ewing, H., Gelb, M.H., Leslie, C.C. (2014) "Serine hydrolase inhibitors block necrotic cell death by preventing calcium overload of the mitochondria and permeability transition pore formation." *J. Biol. Chem.* 289:1491-1504.

Thompson, W., Oslund, R.C., Bollinger, J., Ewing, H., Gelb, M.H. (2012) "High-throughput assay of secreted phospholipase A2 inhibitors." *Methods Mol. Biol.* 861:149-58.

PRESENTATIONS

"IP 101" Life Science Startup Bootcamp 2019, Life Science Washington Institute. Oral Presentation.

"*In vivo* clearance of secreted phospholipase A2 from extracellular medium by the M-type receptor" The International Chemical Congress of Pacific Basin Societies 2015. Poster Presentation accepted.

"Phospholipase A2: Probing necrotic cell death, assay development, and *in vivo* clearance" Volcano Conference in Chemical Biology 2015. Oral Presentation.