ANN
C. BERNERT, PH.D.

PATENT AGENT
503.473.0843 | ann.bernert@klarquist.com

OVERVIEW

Ann prepares and prosecutes U.S. patent applications, both nationally and internationally, in a variety of biotechnology fields.

Prior to Klarquist, Ann worked on research projects in campus laboratories involving human microbiome, entomology, plant pathology, and biochemistry and helped run educational programs engaging K-12 students in agriculture, biotechnology, natural resource management, and independent scientific research. Her Ph.D. research focused on identifying previously unknown biochemical reactions, genes, and proteins in conserved biosynthetic pathways. During her Ph.D. program, she participated in a University Technology Transfer Office program where she learned the process of creating a technology start-up and licensing patents from universities. This experience inspired her to pursue law school and a career as a patent attorney.

Ann joined Klarquist as a summer associate in 2021 before becoming a patent agent in 2022.

PROFESSIONAL EXPERIENCE

- University of Florida, College of Agricultural & Life Sciences Department of Horticulture | National Science Foundation Graduate Research Fellow, 2016 – 2020| Gainesville, FL
- University of Florida Innovation Hub, Technology Transfer Office | Empowering Women in Technology Start-ups Program, Fall 2017 | Gainesville, FL
- Center for Research in Environmental Sciences & Technology West Linn-Wilsonville School District | STEM Program Coordinator, 2015 – 2016 | West Linn, OR
- Oregon State University | Undergraduate Research Technician, 2012-2015 | Corvallis, OR

EDUCATION

J.D. Candidate, Levin College of Law, University of Florida, 2023

Ph.D., Plant Molecular & Cellular Biology, University of Florida, 2020

B.Sc., (*cum laude*) Bioresource Research, B.A., (*cum laude*) International Studies, Oregon State University, 2015

ADMISSIONS

U.S. Patent and Trademark Office, 2020 (Reg. No. 79,168)

PRACTICE AREAS

Patents

TECHNOLOGY AREAS

Life Science & Biotechnology

Agriculture & Food Science

Plants

Klarquist

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PRESENTATIONS & PUBLICATIONS

- "A dedicated flavin-dependent monooxygenase catalyzes the hydroxylation of demethoxyubiquinone into ubiquinone (Coenzyme Q) in *Arabidopsis*" Scott Latimer, Shea A. Keene, Lauren R. Stutts, Antoine Berger, Ann C. Bernert, Eric Soubeyrand, Janet Wright, Catherine F. Clarke, Anna K. Block, Thomas A. Colquhoun, Christian Elowsky, Alan Christensen, Mark A. Wilson, and Gilles J. Basset. (2021) *Journal of Biological Chemistry*. 297, 5; 101283.
- "3-O-glycosylation of kaempferol restricts the supply of the benzenoid precursor of ubiquinone (Coenzyme Q) in *Arabidopsis thaliana*" Eric Soubeyrand, Scott Latimer, Ann C. Bernert, Shea A. Keene, Timothy S. Johnson, Doosan Shin, Anna K. Block, Thomas A. Colquhoun, Anton R. Schaffner, Jeongim Kim, and Gilles J. Basset. (2021) *Phytochemistry*. 186; 112738.
- "Recombinant RquA catalyzes the *in vivo* conversion of ubiquinone to rhodoquinone in *Escherichia coli* and *Saccharomyces cerevisiae*" Ann C. Bernert, Evan J. Jacobs, Samantha R. Reinl, Christina C.Y. Choi, Paloma M. Roberts Buceta, John C. Culver, Carly R. Goodspeed, Michelle C. Bradley, Catherine F. Clarke, Gilles J. Basset, and Jennifer N. Shepherd. (2019) *BBA- Molecular and Cell Biology of Lipids*. 1864, 9; 1226-1234.
- "Arabidopsis 4-COUMAROYL-COA LIGASE 8 contributes to the biosynthesis of the benzenoid ring of coenzyme Q in peroxisomes" Eric Soubeyrand, Megan Kelly, Shea A. Keene, Ann C. Bernert, Scott Latimer, Timothy S. Johnson, Christian Elowsky, Thomas A. Colquhoun, Anna K. Block, and Gilles J. Basset. (2019) *Biochemical Journal*, BCJ20190688.
- "High-throughput live cell screen for small molecular targeting TolC efflux pump of *Xylella fastidiosa*." Sujian Zhang, Mukesh Jain, Ann C. Bernert, Laura A. Fleites, Dean W. Gabriel. Pierce's Disease Annual Meeting 2017