

PARTNER

Sheree L. Rybak, Ph.D.

sheree.rybak@klarquist.com



EDUCATION

- J.D., *cum laude*, Lewis & Clark Law School, 2003
- Ph.D., Biological Sciences, Carnegie Mellon University, 1997
- B.S., *magna cum laude* in Biology, Lebanon Valley College, 1990

BAR ADMISSIONS

- Arizona, 2009
- Oregon, 2003
- U.S. Patent and Trademark Office (Reg. No. 47,913)

YEAR JOINED FIRM

1998

PRACTICE AREAS

Intellectual Property Counseling
Licensing & Technology Transfer
Patents: Design, International, Plant, and Utility
Trademarks

TECHNOLOGIES

Agriculture & Food Science
Chemical
Life Sciences
Plants

PRACTICE AREA OVERVIEW

Dr. Rybak's practice is focused on the preparation and prosecution of patent and trademark applications.

TECHNICAL EXPERTISE

Dr. Rybak's focus is biotechnology, including molecular biology, biochemistry, virology, medical diagnostics, and botany. She also prepares patentability opinions, freedom-to-operate opinions, non-infringement opinions, invalidity opinions, and prosecution and litigation of United States trademarks. In addition she prepares and prosecutes plant patents.

PRIOR PROFESSIONAL EXPERIENCE

Oregon Health & Science University, Portland, OR
Post-Doctoral Fellow | 1997 - 1998

Designed and constructed genetically engineered fluorescent-tagged proteins, examined trafficking of these proteins using real-time microscopy and developed in vitro protein binding assays; National Institutes of Health post-doctoral Neuroendocrine Training Grant, 1997 - 1998.

Carnegie Mellon University, Pittsburgh, PA

Doctoral Candidate, Department of Biological Sciences | 1992 - 1997

Developed cell biological and theoretical methods to study mechanisms of endosomal pH regulation.

Phi Kappa Phi, National Honor Society (1996); American Society for Cell Biology predoctoral/student travel award to attend the 1995 meeting; American Heart Association, Pennsylvania Affiliate, student fellowship (1994-1996); National Science Foundation fellowship through Graduate Research Training Grant at the Center for Light Microscope Imaging and Biotechnology (1994-1996); National Institutes of Health award to attend the Physiology: Cellular and Molecular Biology course at the Marine Biological Laboratory, Woods Hole, Massachusetts (1994); Graduate Student Conference Presentation Grant from Carnegie Mellon University to attend the 1993 American Society for Cell Biology meeting.

University of Maryland at Baltimore, Baltimore, MD

Research Assistant | 1990 - 1992

Studied the effects of the calcium pool inhibitors on cell growth.

PARTNER

Sheree L. Rybak, Ph.D.

sheree.rybak@klarquist.com

PROFESSIONAL ACTIVITIES

- Oregon State Bar Legal Ethics Committee (2005 - 2007)

PRESENTATIONS AND PUBLICATIONS

- Rybak, S. L. and R. F. Murphy. (2000). Measurement of ligand acidification kinetics for adherent and non-adherent cells. In *Living Color: Flow Cytometry and Cell Sorting Protocols*. R. Diamond and S. DeMaggio, editors. pp. 496-523.
- Wan, L., S. S. Molloy, L. Thomas, G. Liu, Y. Xiang, S. L. Rybak, and G. Thomas. PACS-1 defines a novel gene family of cytosolic sorting proteins required for trans-Golgi network localization. (1998). *Cell* 94:205-216.
- Rybak, S. L., and R. F. Murphy. (1998). Primary cell cultures from murine kidney and heart differ in endosomal pH. *J. Cell. Physiol.* 176:216-222.
- Rybak, S. L., F. Lanni and R. F. Murphy. (1997). Theoretical considerations on the role of membrane potential in the regulation of endosomal pH. *Biophys. J.* 73:674-687.
- Benka, M. L., Lee, M., Wang, G-R., Buckman, S., Burlacu, A., Cole, L., DePina, A., Dias, P., Granger, A., Grant, B., Hayward-Lester, A., Karki, S., Mann, S., Marcu, O., Nussenzweig, A., Piepenhagen, P., Raje, M., Roegiers, F., Rybak, S., Salic, A., Schultes, E., Smith-Hall, J., Waters, J., Yamamoto, N., Yanowitz, J., Yenw, K., Busa, W., and Mendelsohn, M.E. (1995) The Thrombin Receptor in Human Platelets is Coupled to a GTP-binding protein of the G_q Family. *FEBS Letters*, 363:49-52.
- Short, A. D., Bian, J., Ghosh, T.K., Waldron, R.T., Rybak, S.L., and Gill, D.L. (1993) Intracellular Ca²⁺ pool content is linked to control of cell growth. *Proc. Natl. Acad. Sci. USA*, 90:4986-4990.
- Gill, D. L., Ghosh, T.K., Bian, J., Short, A.D., Waldron, R.T., and Rybak, S.L. (1992) Function and Organization of the Inositol 1,4,5-Trisphosphate-Sensitive Calcium Pool. In: *Adv. Second Messenger Phosphoprotein Res.* J.W. Putney, editor. 26:265-308.
- Ghosh, T. K., Bian, J., Short, A.D., Rybak, S.L., and Gill, D.L. (1991) Persistent Intracellular Calcium Pool Depletion by Thapsigargin and Its Influence on Cell growth. *J. Biol. Chem.*, 266:24690-24697.

PARTNER

Sheree L. Rybak, Ph.D.

sheree.rybak@klarquist.com

REPRESENTATIVE PATENTS

- Soybean variety 'G03-1187RR' (8,835,722)
- 3-hydroxypropionic acid and other organic compounds (8,822,197 and 8,759,059)
- Vaccines comprising heat-sensitive transgenes (8,778,683)
- Oxidized cardiolipin and uses to detect cardiolipin antibodies (8,778,619)
- Quantitative nuclease protection assay (QNPA) and sequencing (QNPS) improvements (8,741,564)
- Methods of using bacillus anthracis protective antigen sequences for vaccination (8,703,150)
- Methods and reagents for molecular detection of HIV-1 groups M, N and O (8,575,324)
- Compositions and methods for diagnosis and treatment of tumors (8,568,977)
- Photosensitizing antibody-fluorophore conjugates (8,524,239)
- Aptamer-based colorimetric sensor systems (8,470,532)
- Multiplexed analysis for determining a serodiagnosis of viral infection (8,433,523)
- Green garlic and methods of production (8,350,126)
- Nanoprobes for detection or modification of molecules (8,344,121)
- Methods for using extracellular adenosine inhibitors and adenosine receptor inhibitors to enhance immune response and inflammation (8,080,554 and 8,716,301)
- Poplar transcription factors (7,714,192)
- Proaerolysin containing protease activation sequences and methods of use for treatment of prostate cancer (7,838,266)
- Tall fescue endophyte E34 (7,642,424)
- Lily plant named `BJM 005` (PP21,767)
- Cranberry plant named `CNJ95-20-20` (PP22,541)
- Carex plant named `Spark Plug` (PP24,597)
- Heucherella plant named `Cracked Ice` (PP24,690)
- Coreopsis plant named `Summer Punch` (PP24,826)
- Sedum plant named `Desert Red` (PP24,848)
- Echinacea plant named `Elegance` (PP24,926)