

**PARTNER**

Portland Office
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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

ADMISSIONS

Arizona, 2009

Oregon, 2003

U.S. Patent and Trademark Office, 2001 (Reg. No. 47,913)

PRACTICE AREAS

Patents

Trademarks

Intellectual Property Counseling

TECHNOLOGY AREAS

Life Sciences & Biotechnology

Plants

Agriculture & Food Science

Chemical

Sheree L. Rybak, Ph.D.

Sheree's practice is focused on the preparation and prosecution of patent and trademark applications. She also prepares patentability opinions, freedom-to-operate opinions, non-infringement opinions, invalidity opinions, and prosecution and litigation of U.S. trademarks.

Sheree has expertise in biotechnology, including molecular biology, biochemistry, virology, medical diagnostics, and botany. She has extensive experience prosecuting plant patents. Additionally, Sheree has served on the firm's Management Committee, and is currently Chair of the firm's Administrative Services Committee.

Sheree joined Klarquist in 1998 as a patent agent and became partner in 2008.

Professional Experience

- Oregon Health & Science University
Portland, Oregon
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, Pennsylvania
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, Maryland
Research Assistant, 1990 – 1992
Studied the effects of the calcium pool inhibitors on cell growth.

Professional Activities

- Oregon State Bar Legal Ethics Committee, 2005 – 2007

Presentations & 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 Gαq 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.
- AIA: Changes to Inventor's Oath or Declaration, July 2012

Representative Patents

- Soybean variety 'G03-1187RR' (8,835,722)
- 3-hydroxypropionic acid and other organic compounds (8,822,197)
- 3-hydroxypropionic acid and other organic compounds (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)
- Methods for using extracellular adenosine inhibitors and adenosine receptor inhibitors to enhance immune response and inflammation (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)