



## DANIEL P. O'BRIEN, PH.D.

### SENIOR ASSOCIATE

#### EDUCATION

Case Western Reserve  
University  
School of Law  
J.D. (*cum laude*) 2011

Vanderbilt University  
Medical Center  
Cancer Biology  
Ph.D. 2008

Middle Tennessee State  
University  
Microbiology  
B.S. (*magna cum laude*) 2001

#### INDUSTRY GROUPS

Biotechnology  
Chemistry  
Medical Devices  
Pharmaceuticals

#### SERVICES

Patent  
Strategic Counseling  
IP Agreements & Licensing

#### BAR ADMISSIONS

North Carolina  
United States Patent  
and Trademark Office

#### BACKGROUND

Daniel's practice includes the preparation and prosecution of patent applications in the fields of biotechnology and other life sciences. He has a technical background in microbiology, cancer biology, cell biology, molecular biology, immunology, genetics, and biochemistry. Daniel received a B.S. *magna cum laude* (2001) from Middle Tennessee State University and a Ph.D. (2008) in Cancer Biology from Vanderbilt University Medical Center. He holds a J.D. *cum laude* (2011) from Case Western Reserve University School of Law, where he earned a Law and Technology concentration with Honors and served as president of the Student Intellectual Property Law Association.

#### EXPERIENCE

Daniel's legal experience includes the preparation, filing and prosecution of patent applications, patent licensing, legal opinions, and strategic domestic/international portfolio management. Most recently, Daniel spent several years as an associate in the North Carolina office of a leading international general practice law firm. Prior to that, he served for two years as a patent agent at an IP law firm in Ohio.

Daniel's scientific experience includes research that focused on the role of *Helicobacter pylori* in the development of gastric adenocarcinoma. He successfully identified a novel host receptor for *H. pylori* and subsequently delineated bacterial pathogenicity factors and host cell signaling pathways that result in increased expression of the receptor. Daniel's research utilized both *in vitro* cell culture and *in vivo* mouse models of infection. His research was featured on the cover of the Journal of Biological Chemistry.

#### AFFILIATIONS

Daniel is admitted to the North Carolina State Bar and is registered to practice before the U.S. Patent and Trademark Office. He is a member of the Washington State Patent Law Association (WSPLA) and Life Science Washington (formerly Washington Biotechnology and Biomedical Association).

## **PUBLICATIONS**

O'Brien, D.P. and Spruill, W.M. (2013) Inherent Obviousness: Lessons from Allergan, Inc. v. Sandoz, Inc. *Biotechnology Law Report*. v32(6) p357-359

O'Brien, D.P. and Spruill, W.M. (2013) Does Inherency Have a Place in Determinations of Obviousness?. *Biotechnology Law Report*. v32(1-2) p3-16

O'Brien D.P., Romero-Gallo J., Schneider B.G., Chaturvedi R., Delgado A., Harris E.J., Krishna U., Ogden S.R., Israel D.A., Wilson K.T., Peek R.M. Jr. (2008) *Regulation of the Helicobacter pylori cellular receptor Decay-accelerating factor*. *Journal of Biological Chemistry*. v283(35) p23922-30

Wei, J., O'Brien, D.P., Vilgelm, A., Piazuelo, M.B., Correa, P., Washington, M.K., El-Rifai, W., Peek, R.M., Zaika, A. (2008) *Interaction of Helicobacter pylori with gastric epithelial cells is mediated by the p53 protein family*. *Gastroenterology*. v134(5) p1412-23

Ogden S.R. I., Wroblewski L.E., Weydig C., Romero-Gallo J., O'Brien D.P., Israel D.A., Krishna U.S., Fingleton B., Reynolds A.B., Wessler S., Peek R.M. Jr. (2008) *p120 and Kaiso Regulate Helicobacter pylori-induced Expression of Matrix Metalloproteinase-7*. *Molecular Biology of the Cell*. v19(10) p4110-21

O'Brien D.P., Israel D.A., Krishna U., Romero-Gallo J., Nedrud J., Medof M.E., Lin F., Redline R., Lublin D.M., Nowicki B.J., Franco A.T., Ogden S., Williams A.D., Polk D.B., Peek R.M. Jr. (2006) *The Role of Decay-Accelerating Factor as a Receptor for Helicobacter pylori and a Mediator of Gastric Inflammation*. *Journal of Biological Chemistry*. v281(19) p13317-23. (Cover article)

Franco A.T., Israel D.A., Washington M.K., Krishna U., Fox J.G., Rogers A.B., Neish A.S., Collier-Hyams L., Perez-Perez G.I., Hatakeyama M., Whitehead R., Gaus K., O'Brien D.P., Romero-Gallo J., Peek R.M. Jr. (2005) *Activation of beta-catenin by carcinogenic Helicobacter pylori*. *Proceedings of the National Academy of Sciences*. v102(30) p10646-51