

# PATRICK BRIAN GILES, PH.D.

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## **EXPERIENCE:**

**08/09-Present:** *Patent Agent, **Gardner, Groff, Greenwald & Villanueva PC**, Atlanta, Georgia*  
Preparation and Prosecution of US and International Patent Applications in the chemical and life science arts.

**2008-08/09:** *Patent Agent, Ballard Spahr Andrews & Ingersoll, LLP, Atlanta Georgia*

- Engaged in all aspects of biotechnology patent prosecution

**2004-2008:** *Patent Agent (2005-2008); Science Advisor (2004-2005), Needle & Rosenberg, P.C., Atlanta, Georgia*

- Engaged in all aspects of biotechnology patent prosecution

**1998-2004:** *Graduate Student: (Christopher J. Drake, Ph.D., Advisor), Medical University of South Carolina, Charleston, South Carolina*

- Molecular and Cellular Biology and Pathobiology: Evaluated the role of Vascular Endothelial Growth Factor (VEGF) on the specification of the endothelial lineage during embryogenesis. Studied the effects of VEGF on endothelial cell proliferation, apoptosis and differentiation in vasculogenic stage quail embryos and murine allantois explant cultures. The work provided evidence that VEGF is involved in the induction of SCL expression in mesodermal cells and the subsequent specification of those cells to the endothelial/hematopoietic lineage.

**1997-1998:** *Research Specialist II: (Tim C. McQuinn, M.D.); Pediatric Cardiology, Medical University of South Carolina, Charleston, South Carolina*

- Created recombinant vectors for study of cardiac iron channels

**1997:** *Research Specialist I: (Sandra L. Fowler, M.D.); Pediatric Infectious Disease, Medical University of South Carolina, Charleston, South Carolina*

- Studied effect of HSV and CMV viruses on cytokine expression in neuronal cell cultures

**1996:** *Research Specialist I: (Nancy M. Wright, M.D. and Lyndon Key, M.D.); Pediatric Endocrinology, Medical University of South Carolina, Charleston, South Carolina*

- Coordinated studies examining relationship between growth hormone levels and bone density in children

**1993-1996:** *Lab Technician: (Janardan Pandey, Ph.D.); Microbiology & Immunology, Medical University of South Carolina, Charleston, South Carolina*

- Assayed patient populations for immunoglobulin haplotypes for statistical correlation

**EDUCATION:**

*Georgia State University College of Law*

- Juris Doctor, expected 2011
- Member, Georgia State Law Review
- 1L Class Rank: 13/178

*Medical University of South Carolina*

- Doctor of Philosophy (Molecular and Cellular Biology and Pathobiology), 2004

*Furman University*

- *Bachelor of Science (Biology), 1993*

**ADMISSIONS:**

- Registered Patent Agent, United States Patent and Trademark Office (Reg. No. 57,896)

**AWARDS AND HONORS:**

2007

Intellectual Property Scholarship

2003

First Place, Student Research Day and recipient of the Kinard-Gadsden Graduate Alumni Award

2000

Second Place, Student Research Day

**PUBLICATIONS:**

Giles, P.B., Candy, C.L., Fleming, P.A., Owens, R.W., Argaves, W.S., Drake, C.J.,  
“VEGF directs newly gastrulated mesoderm to the endothelial lineage” *Dev. Biol.*  
279(1):169-78

Arias, A.I., Giles, P.B., Eirmann, T.H., Sterry, W. Pandey J.P., 1997. “Tumor Necrosis  
Factor-alpha Gene Polymorphism in Psoriasis.” *Experimental and Immunogenetics.*  
14:118-122.