



Kimberly Vines Ph.D.

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Kimberly Vines is a patent attorney with expertise in prosecuting U.S., foreign, and international applications in the areas of polymer and materials science; pharmaceuticals and pharmaceutical formulation; agricultural chemicals and their formulations; organometallic compounds; and biotechnology. She practices all aspects of patent prosecution including non-infringement and invalidity opinions. Her doctoral thesis was directed to the design and synthesis of novel RXR-selective retinoids as breast cancer chemopreventive agents. Her post-doctoral research was directed to the synthesis of natural products such as Epothilone B and Pseudolaric Acid B as well as anti-malarial compounds.

CAPABILITIES

Practice Areas

- Biotechnology/Life Sciences
- Health Care - Life Sciences Technology & Commercialization
- Intellectual Property & Technology
- Patent Prosecution & Protection

BAR ADMISSIONS

- Alabama
- United States Patent and Trademark Office

RECENT NEWS, ARTICLES & SPEAKING ENGAGEMENTS

- The On-Sale Bar After High Court Helsinn Ruling
IP Law360, January 31, 2019
- Further Erosion of Patent Protection for Diagnostics: The Federal Circuit Denies En Banc Rehearing in *Ariosa Diagnostics, Inc. v. Sequenom, Inc.*
co-author, *AIPLA Quarterly Journal*, Vol. 44, No. 3, pp. 437-458, Summer 2016
- Methyl-substituted conformationally constrained rexinoid agonists for the retinoid X receptors demonstrate improved efficacy for cancer therapy and prevention
Bioorganic & Medicinal Chemistry, 22, 178-85 (2014)
- Syntheses of Benzo(b)furan-6-carbonitrile and 6-cyanobenzo(b)furan-2-boronic acid pinacol ester
Synthetic Communications, 43(14), 1974-1979, 2013
- Convenient one-pot synthesis of 4-substituted-2,6-dihalopyridines: valuable building blocks for medicinally active heterocycles
Abstracts of Papers, 240th American Chemistry Society National Meeting, Boston, Mass. (2010)
- Progress towards the total synthesis of Pseudolaric acid B: a novel antipneumocystic and antifungal natural product
Abstracts of Papers, 228th American Chemistry Society National Meeting, Philadelphia, Penn., 2004
- Total syntheses of Epothilones B and D
Journal of Organic Chemistry, 69(26), 9269-84, 2004
- Synthesis of 1-aryl-7-substituted phthalazines as parasite cysteine protease inhibitors
Abstracts of Papers, 225th American Chemistry Society National Meeting, New Orleans, La., 2003

- Total synthesis of Epothilones B and D amenable to large-scale preparation
Abstracts of Papers, 225th American Chemical Society National Meeting, New Orleans, La., 2003
- 9cUAB30, an RXR-specific retinoid, and/or Tamoxifen in the prevention of methylnitrosourea-induced mammary cancers
Cancer Letters, 201(1), 17-24, 2003
- Conformationally defined retinoic acid analogues
5. Large-scale synthesis and mammary cancer chemopreventive activity for (2E,4E,6Z,8E)-8-(3',4'-Dihydro-1'(2'H)-naphthalen-1'-ylidene)-3,7-dimethyl-2,4,6-octatrienoic Acid (9cUAB30), *Journal of Medicinal Chemistry*, 46 (17), 3766-69, 2003
- Synthesis and breast cancer chemoprevention for UAB30 and analogs, receptor-selective retinoids
Book of Abstracts, 218th American Chemistry Society National Meeting, New Orleans, La., 1999

MEMBERSHIPS

- Intellectual Property Owners Association (IPO) , Member; U.S. Patent Office Practice Committee, Member (2023)
- American Intellectual Property Law Association (AIPLA) , Member
- American Chemical Society , Member

EDUCATION

University of Alabama School of Law J.D. 2014

- *Alabama Law Review*, Junior Editor (2012-13); Senior Editor (2013-14)
- Best Paper: Antitrust, May 2012
- Best Paper: Criminal Law, December 2011
- Best Paper: Legal Writing, December 2011

University of Alabama Ph.D., Organic Chemistry 2001

- Thesis: Design of conformationally defined retinoids: synthesis nuclear receptor binding, and transcriptional activity of derivatives of (9Z)-UAB30
- Graduate Student of the Year (Chemistry Department), May 2000

University of Alabama B.S., Chemistry 1993

- Teaching Assistant, General Chemistry, Biochemistry and Organic Chemistry (1995-2001)

MORE THAN STITES & HARBISON

Kimberly's doctoral thesis was directed to the design and synthesis of novel RXR-selective retinoids as breast cancer chemopreventive agents. Her post-doctoral research was directed to the synthesis of natural products such as Epothilone B and Pseudolaric Acid B as well as anti-malarial compounds. Prior to practicing law, she worked as a chemist at several companies in the greater Boston area.