

Cloverleaf Office Park
6405 Metcalf Ave.
Suite 220
Overland Park, KS 66202

Phone: 913-261-3500
www.humatec.com

Dr. Abato is a medicinal chemist and pharmaceutical technology expert with more than 20 years of experience, specializing in drug research, drug formulation, development, efficacy, dosing routes, pharmacokinetics and pre-clinical testing. As principal scientist and project coordinator at Paratek Pharmaceuticals, he was involved in the discovery and development of novel human therapeutics, including the new antibiotic Omadacycline currently in Phase III clinical development. In addition, Dr. Abato contributed significantly to the discovery of five preclinical candidates for multiple sclerosis, arthritis and spinal muscular atrophy. He has been involved in all aspects of drug research and development, including synthesis and purification, efficacy and pharmacokinetics testing in-vitro and in-vivo and the management of contract research organizations (CRO) to support pre-clinical testing. He co-authored a pre-investigational new drug (IND) proposal that had a favorable review by the FDA in 2013. As a consultant, Dr. Abato regularly advises clients about issues relating to Hatch-Waxman Act abbreviated new drug application (ANDA) matters.

Areas of Focus

- Medicinal Chemistry
- Chemical Analysis
- Abbreviated New Drug Application (ANDA)
- Drug Formulations
- Pharmaceutical Technology
- Tetracyclines
- Antibiotics, Anti-Inflammatory Drugs
- Patent Infringement

Education

- PhD, Chemistry, Brown University, 2002
- BA, Chemistry, Minor in Biology, Rhode Island College, 1996

Licensing & Certifications

- Holds Multiple Patents
 - 7-Disubstituted-Ph Tetracycline Compounds for the Treatment of SMA
 - Tetracycline Compounds for the Treatment of Rheumatoid Arthritis and Related Methods of Treatment
 - Substituted Tetracycline Compounds for Treatment of Bacterial Infections and Neoplasms
 - Preparation of 10-Substituted Tetracycline Compounds as Antibiotics
 - Preparation of Substituted Tetracycline Compounds for the Treatment of Bacterial Infections and Neoplasms
 - Preparation of Substituted Tetracycline Analogs for Use in Antibiotic Pharmaceutical Compositions

Publications

- PTK-SMA2, A Novel Splice-Correcting Tetracycline Derivative, Increases SMN Protein Expression And Significantly Improves Survival In Type I SMA Mice, Abato P et al, Poster presented at the 2012 Annual Families of Spinal Muscular Atrophy, 2012
- Tetracyclines That Promote SMN2 Exon 7 Splicing as Therapeutics For Spinal Muscular Atrophy, Abato P et al, Science Translational Medicine, Nov 4;1(5), 2009

- Synthesis Of Diverse Tetracycline Derivatives Via Pd-Catalyzed Reactions: Creation of a Large Collection of Novel 3rd Generation Tetracyclines, Abato P et al, Abstracts of Papers, 231st ACS National Meeting, ORGN-454, CODEN: 69HYEC AN 2006:249168 CAPLUS, 2006
- Inhibitors of Plasmin That Extend Into Both the S and S' Binding Sites: Cooperative Interactions Between S1 And S2, Abato P et al, Journal of Organic Chemistry, 67(4), 1184-1191, 2002
- EMDee: An Enzymatic Method for Determining Enantiomeric Excess, Abato P, Seto CT, Journal of the American Chemical Society, 123, 9206-9207, 2001
- Combinatorial Library of Serine and Cysteine Protease Inhibitors That Interact with Both the S and S' Binding Sites, Abato P, Conroy JL, Seto CT, Journal of Medicinal Chemistry, 42, 4001-4009, 1999
- Synthesis Of Cyclohexanone-Based Cathepsin B Inhibitors That Interact with Both the S and S' Binding Sites, Abato P et al, Tetrahedron Letters, 39, 8253-8255, 1998

Honors & Awards

- Excellence in Organic Chemistry, American Polymer Society

Experience

- Humatec, Sr. Consultant – Drug and Pharmaceutical Development, 2017 - Present
- Paul Abato Consulting, Principal, 2016 - Present
- Mylan, Independent Expert Witness, 2016 - 2017
- Salve Regina University, Professor, 2014 - Present
- Rhode Island College, Professor, 2014 - Present
- Cemotics, LLC, Consultant, 2014 - 2016
- Paratek Pharmaceuticals, 2002 - 2013
 - Principal Scientist, Project Coordinator, 2009 - 2013
 - Senior Scientist, 2006 - 2009
 - Scientist II, 2003 - 2005
 - Scientist I, 2002 - 2003
- Eikos, Inc., Scientist I, 2002
- Brown University, Department of Chemistry, Graduate Researcher, Principal Investigator (PI), 1996 - 2002