#### CURRICULUM VITAE

NAME:	Jeffrey David Winkler	
ADDRESS:	Department of Chemistry University of Pennsylvania Philadelphia, PA 19104 email: winkler@sas.upenn.edu	
PHONE:	(215) 898-0052	
LEGAL CONSULTING EXPERIENCE (last five years; on behalf of underlined):		
2020	<b>Cooley LLP</b> Expert in organic chemistry ( <u>Liquidia Technologies</u> v. United Therapeutics Corporation)	
2020	Winston & Strawn Expert in organic chemistry (FWK Holdings, LLC, et. al. v. Merck, <u>Glenmark Pharmaceuticals,</u> <u>et. al.)</u>	
2019	<b>McNeely Hare and War</b> Expert in organic chemistry ( <u>Amerigen Pharmaceuticals Ltd</u> v. United Therapeutics Corporation)	
2019	Womble Bond Dickinson Expert in organic chemistry (Ferring Pharmaceuticals Inc. et. al. v. Lupin Inc., No 19-cv-913 (D. Del))	
2019	Bereskin & Parr (Canada) Expert in organic chemistry ( <u>ViiV</u> <u>Healthcare Co., Shionogi &amp; Co., Ltd., and ViiV Healthcare UK (No. 3)</u> <u>Ltd. v. Gilead Sciences, Inc.)</u>	
2018	Baker Hostetler/McGuireWoods Expert in organic and medicinal chemistry (Eli Lilly v. <u>Eagle Pharmaceuticals</u> , Case No. 1:17-cv-1293; Expert Report, Deposition, Trial Testimony)	
2018	<b>Crowell &amp; Moring</b> Expert in organic chemistry ( <b>Chen v. Jung and</b> <u>Sawyers</u> , Case No. 2:18-cv-02015-R-KS; Expert Report, Deposition and Trial Testimony)	
2018	McCarthy Tetrault Expert in organic chemistry (Akebia v. FibroGen)	
2018	<b>Greenberg Traurig</b> Expert in organic chemistry ( <b>Leo Pharma v.</b> <u>Actavis;</u> Expert Reports and Deposition)	

2018	Quinn Emanuel Expert in organic chemistry ( <u>Mitsubishi Tanabe Pharma</u> <u>Corp. and Janssen Pharmaceuticals</u> v. Apotex, Aurobindo Pharma, Dr. Reddy's Laboratories, Hetero USA, Indoco Remedies, InvaGen Pharmaceuticals, Inc., Laurus Labs, 4, Macleods Pharma, MSN Laboratories, Prinston Pharmaceuticals, Sandoz, Teva Pharmaceuticals and Zydus Pharmaceuticals)	
2018	Quinn Emanuel Expert in organic chemistry ( <u>Celgene</u> v. International Union of Bricklayers and Allied Craft Workers Local 1 Health Fund; Expert Report and Deposition)	
2017	<b>Polsinelli PC</b> Expert in organic chemistry (Leo Pharma v. <u>Perrigo;</u> Expert Reports and Deposition)	
2017	Jones Day Expert in organic chemistry (Accord Healthcare Limited v. Celgene Corporation, HP-2017-000036, HP-2017-000037)	
2017	<b>Gibbons P. C.</b> Expert in organic chemistry ( <b>Cipla v.</b> <u>Sunovion Pharm.</u> <u>Inc.</u> ; 15-cv-424 (LPS) (D. Del., Expert Reports and Deposition)	
2017	<b>Durie Tangri</b> Expert in organic chemistry ( <u>Plexxikon Inc.</u> v. Novartis Pharmaceuticals Corporation)	
2017	<b>Arnold Porter Kaye Scholer</b> Expert in organic chemistry ( <u>Pfizer</u> v. Micro Labs, Sun, Prinston, Zydus and Breckenridge)	
2016	<b>Crowell Moring</b> Expert in organic chemistry ( <b>Hetero Laboratories v.</b> <b>Boehringer Ingelheim</b> )	
2015	<b>DLA Piper</b> Expert in organic chemistry ( <u>SteadyMed Therapeutics, Inc.</u> v. United Therapeutics Corp.; Expert Report and Deposition)	
2015	Finnegan, Henderson, Farabow, Garrett & Dunner, LLP Expert in organic chemistry (Principia Biopharma)	
EDUCATION:		
Post-doctoral:	Columbia University. January 1982-August 1983. Research Director: Professor Ronald Breslow.	
Graduate:	Columbia University. September 1977-December 1981. M.A. 1978, M.Phil., Ph.D. 1981. Thesis Advisor: Professor Gilbert Stork.	

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PROFESSIONAL EXPERIENCE:	Undergraduate Chair, Department of Chemistry, University of Pennsylvania, July 2018-
	Merriam Professor of Chemistry, University of Pennsylvania, January 2001-
	Professor, University of Pennsylvania Department of Chemistry, July 1996-
	Founding Member, University of Pennsylvania Center for Cancer Pharmacology, May 1998-present
	Associate Professor, University of Pennsylvania, Department of Chemistry, July 1990-June 1996
	Member, University of Pennsylvania Cancer Center, July 1993-present
	Assistant Professor, University of Chicago, Department of Chemistry, September 1983-June 1990
AWARDS & HONORS:	Ira H. Abrams Memorial Award for Distinguished Teaching, 2016 Elected Member, John Morgan Society, 2014 Visiting Scholar, Harbin University of Science and Technology, 2013 Fellow, Japan Society for the Promotion of Science, 2010 Lindback Award for Distinguished Teaching, 2007 Philadelphia Organic Chemists' Club Award, 2006 American Chemical Society Cope Scholar Award, 2000 Chairman, Philadelphia Organic Chemists' Club, 1995 American Cyanamid Young Faculty Award, 1989-1992 NIH-NCI Research Career Development Award, 1988-1993 Alfred P. Sloan Research Fellow, 1987-1989 Merck Foundation Award for Faculty Development, 1985 American Cancer Society Postdoctoral Fellow, 1982-1983

#### **PROFESSIONAL ACTIVITIES**

Member, Atrin Pharmaceuticals, Scientific Advisor Board, 2013-present Co-Founder, Pinpoint Therapeutics, 2018-present

#### **INVITED LECTURES SINCE 2002:**

#### 2002-2003

Plenary Lecturer, French-American Chemical Society, 2002 Pfizer Lecturer, University of Waterloo, 2002 Novartis Lecturer, University of Texas at Austin University of Rochester Emory University Alan Johnson Lecturer, University of Sussex, UK Invited Speaker, Gordon Research Conference on Natural Products, July 2003

#### 2003-2004

Stanford University University of California at Berkeley Glaxo Smith Kline Amgen Biogen Yale University Boston College State University of New York at Stony Brook

#### 2004-05

Plenary Speaker, Belgian Organic Chemistry Symposium Abbott Laboratories Distinguished Lecturer in Organic Synthesis, Notre Dame University California Institute of Technology

#### 2005-2006

GlaxoSmithKline Symposium Lecture Wyeth Synthesis Course (Princeton, Collegeville, Pearl River, Cambridge)

#### 2006-2007

Roche Lectureship, University of Colorado Invited Lecturer, 12<sup>th</sup> Brazilian Meeting on Organic Synthesis

#### 2007-2008

Bristol-Myers Squibb University of Wisconsin-Madison

#### 2008-2009

National Taiwan University National Tsing Hua University, Taiwan Keynote Speaker, 9<sup>th</sup> International Symposium on Organic Reactions, 2008 (Chiayi, Taiwan)

#### 2009-2010

Hamilton College Kyoto University, Katsura Campus Kyoto University, Yoshida North Campus Tokyo Institute of Technology University of Tokyo Chiba University Hokkaido University Tohoku University Eli Lilly and Company Pfizer Cambridge

#### 2010-2011

University of Cambridge University College London Imperial College London University of Cardiff Paristech University of Lyon ETH Invited Lecturer, Breslow Symposium, Anaheim, CA

#### 2011-2012

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Plenary Lecturer, 1<sup>st</sup> Korea International Forum on Organic Chemistry, Seoul Frontiers in Chemistry Lecture, Case Western Reserve University University of Iowa University of Maryland Eastern Shores Towson University

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