

**CURRICULUM VITAE**  
**Ahmed F. Abdel-Magid**



**CURRICULUM VITAE**  
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### EDUCATION:

- 1969:** B. S., Chemistry and Applied Chemistry, **Cairo University**, Cairo, Egypt  
**1973:** M. S., Organic Chemistry, **Cairo University**, Cairo, Egypt  
**1980:** Ph.D., Organic Chemistry, **Temple University**, Philadelphia, PA  
**1981-1982:** Post-doctoral Associate, **University of South Carolina**, Columbia, SC

### EMPLOYMENT

- 2009-Present** *Therachem Research Medilab Pvt. Ltd.*  
Birmingham, AL, USA & Jaipur, India  
Executive Vice President and Chief Scientific Officer
- 1988-2008** *Johnson & Johnson Pharmaceutical Research & Development, L.L.C.*  
Chemical Development, Spring House, PA & Raritan, NJ / USA  
**1998-2008:** Senior Research Fellow  
**2003-2004:** Acting Director, Chemical Development, Spring House Site  
**1995-1997:** Research Fellow  
**1991-1994:** Principal Scientist  
**1988-1990:** Senior Scientist
- 1986-1987** *Wyeth Laboratories (Currently Pfizer)*  
Chemical Development, West Chester, PA / USA  
Senior Chemist
- 1985-1986** *Drexel University*, Philadelphia, PA / USA  
Teaching/Research Associate
- 1983 -1985** *SmithKline Beckman Pharmaceuticals (Currently Glaxo SmithKline)*  
Philadelphia, PA / USA  
Postdoctoral Scientist
- 1969-1976** *Cairo University, Faculty of Science, Chemistry Department*, Cairo, Egypt  
Instructor / Assistant Lecturer

### ACADEMIC APPOINTMENTS:

- 1985-2006:** *Drexel University (Goodwin College of Professional Studies)*  
**2000-2006:** Adjunct Professor  
**1994-2000:** Adjunct Associate Professor  
**1985-1994:** Adjunct Assistant Professor
- 1969 – 1976:** *Cairo University, Cairo, Egypt*  
Faculty of Science - Chemistry Department  
**1973-1976:** Assistant Lecturer  
**1969-1972:** Instructor

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### CURRENT PROFESSIONAL AFFILIATIONS

- Member of The American Chemical Society (ACS)
- Member of The Division of Organic Chemistry of the ACS
- Member of The Philadelphia Section of the ACS.
- Member of The International Union of Pure and Applied Chemistry (IUPAC)
- Member of The Philadelphia Organic Chemist's Club (POCC)

### AWARDS AND HONORS

- **1991:** Johnson & Johnson Achievement Award for "Tolmetin Patent Protection"
- **1994:** Johnson & Johnson Philip B. Hofmann Research Award
- **1997:** Johnson & Johnson Achievement Award for "Azaline B Synthesis Team"
- **1999:** Johnson & Johnson Achievement Award for "RWJ-270201 Synthesis Team"
- **2007:** The Philadelphia Organic Chemist's Club Award
- **2009:** Fellow of the American Chemical Society

### RELATED ACTIVITIES/COMMITTEES

#### Johnson & Johnson PRD:

- Member of the Innovation team (**1998-2002**)
- Member of the Scientific Ladder Committee (**1999-2001**)
- Member of the Achievement Awards Committee (**1999-2000**)
- Member of the Awards Committee (Vice President and Hofmann Awards) (**2002-2003**)

#### External

- Member and past officer of The Philadelphia Organic Chemist's Club (POCC) (Assistant Secretary, **1987**; Secretary, **1988**; Chair Elect, **1993**; Chair, **1994**)
- Member of the Executive Committee of the Division of Organic Chemistry of The American Chemical Society (**2004-2005**)
- The 39<sup>th</sup> National Organic Chemistry Symposium (NOS) Executive Officer (**2004-2005**).
- Member of the ACS Awards Selection Committee (**2005-2007**)
- Member of the Executive Committee of the Division of Organic Chemistry of The American Chemical Society (**2009-2012**)
- National Program Chair Elect, Division of Organic Chemistry of the ACS (**2009-2010**)
- National Program Chair, Division of Organic Chemistry of the ACS (**2011--2012**)
- Guest Editor, Arkivoc Special Issue to honor Bruce and Cynthia Maryanoff (**2009-2010**)

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### PUBLICATIONS

### MANUSCRIPTS AND BOOK CHAPTERS

1. A Review on the Use of Sodium Triacetoxyborohydride in the Reductive Amination of Ketones and Aldehydes. Ahmed F. Abdel-Magid and Steven J. Mehrman, *Org. Proc. Res. Dev.* **2006**, *10*, 971-1031.
2. Sodium Triacetoxyborohydride. Ahmed F. Abdel-Magid, In *The Electronic Encyclopedia of Reagents for Organic Synthesis*; Paquette, L.A. Ed. John Wiley and Sons, New York, **2006**.
3. Non-Salen Metal-Catalyzed Asymmetric Dihydroxylation and Asymmetric Aminohydroxylation of Alkenes. Steven J. Mehrman, Ahmed F. Abdel-Magid, Cynthia A. Maryanoff and Bart Medaer. In *Topics in Organometallic Chemistry, Volume 6: Organometallics in Process Chemistry*, Robert D. Larsen Editor, Spriger-Verlag, March **2004**, pp 153-180.
4. Solution Phase Synthesis of the Pulmonary Surfactant KL-4, A 21-amino acid Synthetic Protein. Ahmed F. Abdel-Magid, Mary Ellen Bos, Urs Eggmann, Cynthia A. Maryanoff, Lorraine Scott, Adrian Thaler and Frank J. Villani. In *Chemical Process Research; The Art of Practical Organic Chemistry*: Abdel-Magid, A. F., and Ragan, J. A. Editors; *ACS Symposium Series 870*; American Chemical Society: Washington, DC, **2003**, pp 181-197.
5. Stereoselective Synthesis of  $\beta$ -Aryl- $\beta$ -Amino Esters. Judith H. Cohen, Ahmed F. Abdel-Magid, Harold Almond, and Cynthia A. Maryanoff *Tetrahedron Lett.* **2002**, *43*, 1977.
6. Synthesis of Influenza Neuraminidase Inhibitors. Ahmed F. Abdel-Magid, Cynthia A. Maryanoff and Steven J. Mehrman *Curr. Opin. Drug Disc. Dev.* **2001**, *4(6)* 776.
7. Chemical Process Synthesis of  $\beta$ -Amino Acids and Esters. Ahmed F. Abdel-Magid, Judith H. Cohen, and Cynthia A. Maryanoff, *Curr. Med. Chem.* **1999**, *6*, 519.
8. An Efficient Stereoselective Synthesis of Methyl (*S*)-3-Amino-3-(3-Pyridyl)Propanoate. H. Marlon Zhong, Judith H. Cohen, Ahmed F. Abdel-Magid, Birdella D. Kenney, Cynthia A. Maryanoff, Rekha D. Shah, Frank J. Villani, Jr., and Fan Zhang, *Tetrahedron Lett* **1999**, *40*, 7721.
9. Hydrolysis of Polypeptide Esters with Tetrabutylammonium Hydroxide. Ahmed F. Abdel-Magid, Judith H. Cohen, Cynthia A. Maryanoff, Rekha D. Shah, Frank J. Villani and Fan Zhang *Tetrahedron Lett.* **1998**, *39*, 3391.
10. Use of Sodium Triacetoxyborohydride in Reductive Amination of Ketones and Aldehydes. Ahmed F. Abdel-Magid; Cynthia A. Maryanoff. In *Reduction in Organic Synthesis: Recent Advances and Practical Applications*; Abdel-Magid, A. F., Ed.; ACS Symposium Series 641; American Chemical Society: Washington, DC, **1996**, pp 201-217.
11. Diastereo- and Enantioselective Hydride Reductions of Ketone Phosphinyl Imines to Phosphinyl Amines. Synthesis of Protected Amines and Amino Acids. Robert O. Hutchins, Qi-Cong Zhu, Jeffrey Adams, Samala J. Rao, Enis Oskay, Ahmed F. Abdel-Magid, MaryGail K. Hutchins. In *Reduction in Organic Synthesis: Recent Advances and Practical Applications*; Abdel-Magid, A. F., Ed.; ACS Symposium Series 641; American Chemical Society: Washington, DC, **1996**, pp 127-137

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12. Reductive Amination of Aldehydes and Ketones with Sodium Triacetoxyborohydride. Studies on Direct and Indirect Reductive Amination Procedures. Ahmed F. Abdel-Magid, Kenneth G. Carson, Bruce D. Harris, Cynthia A. Maryanoff, Rekha D. Shah. *J. Org. Chem.* **1996**, 61, 3849-3862.
13. Barium Hydroxide. Ahmed F. Abdel-Magid, In *Encyclopedia of Reagents for Organic Synthesis*; Paquette, L.A. Ed. John Wiley and Sons, New York, **1995**, Vol. 1, pp 236-240.
14. Lithium Hydroxide. Ahmed F. Abdel-Magid, In *Encyclopedia of Reagents for Organic Synthesis*; Paquette, L.A. Ed. John Wiley and Sons, New York, **1995**, Vol. 5, pp 3132-3135.
15. Potassium Hydroxide. Ahmed F. Abdel-Magid, In *Encyclopedia of Reagents for Organic Synthesis*; Paquette, L. A. Ed. John Wiley and Sons, New York, **1995**, Vol. 6, pp 4248-4251.
16. Potassium Hydroxide-Alumina. Ahmed F. Abdel-Magid, In *Encyclopedia of Reagents for Organic Synthesis*; Paquette, L.A. Ed. John Wiley and Sons, New York, **1995**, Vol. 6, pp 4251-4252.
17. Potassium Hydroxide-Carbon Tetrachloride. Ahmed F. Abdel-Magid, In *Encyclopedia of Reagents for Organic Synthesis*; L.A. Ed. John Wiley and Sons, New York, **1995**, Vol. 6, pp 4252-4254.
18. Potassium Hydroxide-Crown Ethers. Ahmed F. Abdel-Magid, In *Encyclopedia of Reagents for Organic Synthesis*; Paquette, L.A. Ed. John Wiley and Sons, New York, **1995**, Vol. 6, pp 4254-4255.
19. Potassium Hydroxide-Dimethyl Sulfoxide. Ahmed F. Abdel-Magid, In *Encyclopedia of Reagents for Organic Synthesis*; Paquette, L.A. Ed. John Wiley and Sons, New York, **1995**, Vol. 6, pp 4255-4256.
20. Potassium Hydroxide-Hexamethyl Phosphoric Triamide. Ahmed F. Abdel-Magid, In *Encyclopedia of Reagents for Organic Synthesis*; Paquette, L.A. Ed. John Wiley and Sons, New York, **1995**, Vol. 6, pp 4257-4258.
21. A Reductive Amination/Lactamization Procedure Using Borohydride Reagents. Ahmed F. Abdel-Magid, Bruce D. Harris, Cynthia A. Maryanoff, *Synlett* **1994**, 81-83.
22. Chelation Control in Metal-Assisted Aldol Addition Reactions of  $\alpha$ -Halogenated Imide Enolates Leading to Predominantly Anti Stereoselectivity. An Example of Stereocontrolled Darzens Reaction. Lendon N. Pridgen, Ahmed F. Abdel-Magid, Ivan Lantos, Susan Shilcrat, D. S. Eggleston *J. Org. Chem.* **1993**, 58, 5107-5117
23. Use of the Magnesium Cation in Aldol Additions. A Convenient Method for Achieving Anti-aldol Selectivity. Kevin A. Swiss, Woo-Baeg Choi, Dennis C. Liotta, Ahmed F. Abdel-Magid, Cynthia A. Maryanoff. *J. Org. Chem.* **1991**, 56, 5978-5980.
24. Reductive Amination of Aldehydes and Ketones By Using Sodium Triacetoxyborohydride. Ahmed F. Abdel-Magid, Cynthia A. Maryanoff, Kenneth G. Carson. *Tetrahedron Lett.* **1990**, 31, 5595-5598.

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25. An Improved Synthesis of 2-Oxathianyl Ketones. Ernest L. Eliel, Xu Bai, Ahmed F. Abdel-Magid, Robert O. Hutchins, *J. Org. Chem.* **1990**, 55, 4951-4953.
26. Reductive Amination of Aldehydes and Ketones With Weakly Basic Anilines Using Sodium Triacetoxyborohydride. Ahmed F. Abdel-Magid, Cynthia A. Maryanoff, *Synlett* **1990**, 537-539.
27. A Predominantly Anti-Stereoselective Chiral Metal-Directed Aldol Condensation with Aromatic Aldehydes. Lendon N. Pridgen, A. Abdel-Magid, I. Lantos, *Tetrahedron Lett.* **1989**, 30, 5539-5542.
28. Asymmetric Reduction of Phosphinylimines with Hydride Reagents. Enantioselective Synthesis of Chiral Primary Amines. Robert O. Hutchins, Ahmed Abdel-Magid, Yuriy P. Stercho, Anthony Wambsgans, *J. Org. Chem.* **1987**, 52, 702-704.
29. Metal-Assisted Aldol Condensations of Chiral  $\alpha$ -Halogenated Imide Enolates. A Stereocontrolled Chiral Epoxide Synthesis. Ahmed Abdel-Magid, Lendon N. Pridgen, Drake S. Eggleston, Ivan Lantos, *J. Am. Chem. Soc.* **1986**, 108, 4595-4602.
30. Photochemistry of Estren-4-en-3-ones: 17 $\beta$ -Hydroxy-4-estren-3-one, 17 $\beta$ -Acetoxy-4,9-estradien-3-one, 17 $\beta$ -Hydroxy-4,9,11-estratrien-3-one and Norgestrel. Photochemistry of 5 $\alpha$ -Estran-3-ones. John R. Williams, Peter L. Mattei, Ahmed Abdel-Magid, John F. Blount, *J. Org. Chem.* **1986**, 51, 769-773.
31. Structure of Three Diastereomers of (4s)-3-[2-Chloro-3-hydroxy-4-methyl pentanoyl]-4-(1-methylethyl)oxazolidine, C<sub>12</sub>H<sub>22</sub>ClNO<sub>3</sub>. Drake S. Eggleston, Ahmed Abdel-Magid, Lendon N. Pridgen, Ivan Lantos. *Acta. Cryst.* **1986**, C42, 1416-1420.
32. Aldol Condensations of Chiral  $\alpha$ -Haloimidates. A Chiral Darzens Condensation Procedure. Ahmed Abdel-Magid, Ivan Lantos, Lendon N. Pridgen, *Tetrahedron Lett.* **1984**, 25, 273-3276.
33. A Unified Approach to Prostanoid and Corticosteroid Synthons. Steven D. Burke, David R. Magnin, Jeff A. Oplinger, Julia P. Baker, Ahmed Abdel Magid, *Tetrahedron Lett.* **1984**, 25, 19-22.
34. Synthesis and Photochemistry of Steroidal  $\beta,\gamma$ -Unsaturated Ketones. An Approach to Reversible Steroid-Diterpenoid Interconversion. John R. Williams, Ahmed Abdel-Magid, Wendella Ricker, Hani Salama, *J. Org. Chem.* **1982**, 47, 2536-2541.
35. Photolysis of 3-Oxo- $\Delta^{5,10}$ -Steroids in Alcoholic Solvents and in the Solid Phase. John R. Williams, Ahmed Abdel-Magid, *Tetrahedron* **1981**, 37, 1675-1677.
36. Reactions with 5,6-Diphenyl-2,3-dihydroimidazo[2,1-b]thiazol-3-one and 6,7-Diphenyl-2,3-dihydroimidazo[2,1-b]thiazin-4-one. M. I. Ali, M. A. Abou-State, Ahmed F. Ibrahim (Abdel-Magid), *J. Prakt. Chem.* **1974**, 316, 147-162.

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### BOOKS:

1. *Reductions In Organic Synthesis: Recent Advances and Practical Applications*. Abdel-Magid, A. F. Editor, ACS Symposium Series 641; American Chemical Society: Washington, DC, **1996**.
2. *Chemical Process Research; The Art of Practical Organic Chemistry*. Abdel-Magid, A. F., and Regan, J. A. Editors; ACS Symposium Series 870; American Chemical Society: Washington, DC, **2003**.
3. *Fundamentals of Early Clinical Drug Development: From Synthesis Design to Formulation*. Abdel-Magid, A. F., and Caron, S. Editors; John Wiley & Sons, Inc., Hoboken, NJ, **2006**.

### ISSUED PATENTS

1. Substituted 1,2-Dihydro-4H-3,1-benzoxazin-4-one derivatives as Inhibitors of Interleukin, Jerauld S. Skotnicki and Ahmed F. Abdel-Magid, **US 4,894,374 A**, January **1990**.
2. Liquid Phase Process for the Preparation of GnRH Peptides, David C. Palmer, Ahmed Abdel-Magid, Michael S. Breslav, Urs P. Eggman, Bruce Harris, Mark L. Haslego, Kirk L. Sorgi. **US 5,977,302 A**, November **1999**.
3. Liquid Phase Synthesis of KL-4 Pulmonary Surfactant. Ahmed F. Abdel-Magid, Urs Eggmann, Cynthia A. Maryanoff, Adrian Thaler and Frank J. Villani, **US 6,013,764 A**, January **2000**.
4. Liquid Phase Process for the Preparation of GnRH Peptides, David C. Palmer, Ahmed Abdel-Magid, Urs P. Eggman, Bruce Harris, Kirk L. Sorgi. **US 6,235,876 B1**, May **2001**.
5. Synthesis of 3-Amino-3-Aryl Propanoates. Ahmed F. Abdel-Magid, Judith H. Cohen, Cynthia A. Maryanoff, Frank J. Villani, Jr., Hua M. Zhong, **US 6,258,956 B1** July **2001**.
6. Process for preparing 1,5-diaryl-3-substituted pyrazoles. Ahmed F. Abdel-Magid, Bruce D. Harris and Cynthia A. Maryanoff, **US 6,384,233 B1**, May **2002**.
7. Liquid Phase Synthesis of KL-4 Pulmonary Surfactant. Ahmed F. Abdel-Magid, Urs Eggmann, Cynthia A. Maryanoff, Adrian Thaler and Frank J. Villani, **US 6,492,490 B1**, December **2002**.
8. Process for preparing substituted cyclopentane derivatives and novel crystalline structures thereof, Ahmed F. Abdel-Magid, Hans-Ulrich Bichsel, Daniel J. Korey, Gunther G. Laufer, Erja A. Lehto, Sebastiano Mattei, Max Rey, Thomas W. Shultz, and Cynthia A. Maryanoff. **US 6,576,786 B2**, June **2003**.
9. Synthesis of 3-Amino-3-Aryl Propanoates. Ahmed F. Abdel-Magid, Judith H. Cohen, Cynthia A. Maryanoff; Frank J. Villani, Jr. and Hua M. Zhong, **US 6,610,855 B2**, August **2003**.
10. Process for preparing 1,5-diaryl-3-substituted pyrazoles. Ahmed F. Abdel-Magid, Bruce D. Harris and Cynthia A. Maryanoff, **US 6,613,914 B2**, September **2003**.
11. Process for preparing 1,5-diaryl-3-substituted pyrazoles. Ahmed F. Abdel-Magid, Bruce D. Harris and Cynthia A. Maryanoff, European Patent, **EP 1,144,382 B1**, March **2004**.
12. Process for preparing 1,5-diaryl-3-substituted pyrazoles. Ahmed F. Abdel-Magid, Bruce D. Harris and Cynthia A. Maryanoff, **US 6,953,860 B2**, October **2005**.

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13. Anticonvulsant derivative salts. Ahmed F. Abdel-Magid, Cynthia A. Maryanoff, US Patent **US 7,041,650 B2**, May **2006**.
14. Substituted sulfamate anticonvulsant derivatives. Ahmed F. Abdel-Magid, Cynthia A. Maryanoff, Steven Mehrman, Kirk Sorgi, Frank Villani, Cheryl Kordik, Allen B. Reitz, Bruce Maryanoff, US Patent **US 7,060,725 B2**, June **2006**.
15. Process for the preparation of tetrasubstituted imidazole derivatives and novel crystalline structures thereof. Zhong, Hua; Dubberke, Silke; Muller, Stefan; Rossler, Armin; Schultz, Thomas W.; Korey, Daniel J.; Otten, Thomas; Walker, Donald G.; Abdel-Magid, Ahmed, US Patent **US 7,067,671 B2**, June **2006**.
16. Anticonvulsant derivative salts. Ahmed F. Abdel-Magid, Cynthia A. Maryanoff, US Patent **US 7,098,188 B2**, August **2006**.
17. Process for preparing derivatives of (1,5-diaryl)pyrazol-3-yl]propanoic acid. Ahmed F. Abdel-Magid, Bruce D. Harris and Cynthia A. Maryanoff, European Patent, **EP 1413575 B1**, November **2006**.
18. Process for the preparation of tetrasubstituted imidazole derivatives and novel crystalline structures thereof. Zhong, Hua; Dubberke, Silke; Muller, Stefan; Rossler, Armin; Schultz, Thomas W.; Korey, Daniel J.; Otten, Thomas; Walker, Donald G.; Abdel-Magid, Ahmed, US Patent **US 7,132,544 B2**, November **2006**.
19. Novel Anticonvulsant Derivative Salts. Ahmed F. Abdel-Magid, Cynthia A. Maryanoff, European Patent, **EP 1 414 824 B1**, February **2007**.
20. Process for preparing 1,5-diaryl-3-substituted pyrazoles. Ahmed F. Abdel-Magid, Bruce D. Harris and Cynthia A. Maryanoff, **US 7,247,745 B2**, July **2007**.
21. Benzotriazapinone salts and methods for using same. Ahmed F. Abdel-Magid, Judith H. Cohen. US Patent **US 7,524,837 B2**, April **2009**.
22. Substituted sulfamate anticonvulsant derivatives. Ahmed Abdel-Magid, Cynthia Maryanoff, Steven Mehrman, Allen B. Reitz, Bruce Maryanoff. US Patent **US 7,560,459 B2**, July **2009**.
23. Process for the preparation of benzotriazepine derivatives. Abdel-Magid; Ahmed F., Anzalone; Luigi, Cohen; Judith, Mehrman; Steven, Villani; Frank, US Patent **US 7,582,753 B2**, September **2009**.
24. Lysine salts of 4-((phenoxyalkyl)thio)-phenoxyacetic acid derivatives. Abdel-Magid; Ahmed F., Mehrman; Steven J., Roessler; Armin. US Patent **US 7,709,682 B2**, May **2010**.

## RECENT PENDING PATENT APPLICATIONS

1. Process for the preparation of sulfamide derivatives. Abdel-Magid; Ahmed F., Mehrman; Steven, Ferraro, Caterina. US Patent application **US 20090176996A1**, July **2009**.
2. Process for the preparation of sulfamide derivatives. Abdel-Magid; Ahmed F., Mehrman; Steven, Ferraro, Caterina. US Patent application **US 20090182141A1**, July **2009**.



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3. Process for the preparation of compounds useful as inhibitors of SGLT. Abdel-Magid; *Ahmed F.*, Chisholm; Maureen, Mehrman; Steven, Scott; Lorraine, Wells; Kenneth M., Zhang-Plasket; Fan, Nomura; Sumihiro, Hongu; Mitsuya, Koga; Yuichi. US **20090233874A1**, October **2009**.
4. Process for the preparation of benzo-fused heteroaryl sulfamates. Abdel-Magid; Ahmed F., Mehrman; Steven J. US Patent application US **20090247617A1**, October **2009**.
5. Liquid Phase Peptide Synthesis of KL-4 Pulmonary Surfactant. Abdel-Magid; Ahmed F., Eggmann; Urs, Maryanoff; Cynthia Anne, Thaler; Adrian, Villani; Frank J. US Patent application US **20090259021A1**, October **2009**.
6. Novel lysine salts of 4-((phenoxyalkyl)thio)-phenoxyacetic acid derivatives. Abdel-Magid; Ahmed F., Mehrman; Steven J., Roessler; Armin. Patent application US **20110105616A1**, May **2011**.

### ABSTRACTS:

1. Process development of the CCK2 receptor ligand, Luigi Anzalone, Ahmed F. Abdel-Magid, Judith Cohen, Steven Mehrman, Frank J. Villani. The 233<sup>rd</sup> ACS National Meeting, Chicago, IL, United States, March **2007**, paper ORGN-237.
2. Reductive Amination of Ketones and Aldehydes Utilizing Ammonia Salts and Sodium Triacetoxyborohydride, Steven J. Mehrman, Ahmed F. Abdel-Magid, Allison Mailliard, Cynthia A. Maryanoff. The 39<sup>th</sup> National Organic Chemistry Symposium, Salt Lake City, Utah, June **2005**, paper C21.
3. Studies Directed Toward The Synthesis Of Primary Amines From Ketones And Aldehydes Via Reductive Amination, Steven J. Mehrman, Ahmed F. Abdel-Magid, Allison Mailliard and Cynthia A. Maryanoff. The 38<sup>th</sup> National Organic Chemistry Symposium, Bloomington, IN, June **2003**, paper A25.
4. Stereoselective Synthesis of  $\beta$ -Aryl- $\beta$ -Amino Esters, Judith H. Cohen, Ahmed F. Abdel-Magid, Harold R. Almond, Jr., Cynthia A. Maryanoff. The 38<sup>th</sup> National Organic Chemistry Symposium, Bloomington, IN, June **2003**, paper A23.
5. Abdel-Magid, A. F.; Cohen, J. H.; Maryanoff, C. A.; Villani Jr., F. J.; Zhang-Plasket, F.; Zhong, H. M. "Enantioselective Synthesis of  $\beta$ -Amino Esters." 220<sup>th</sup> National American Chemical Society Meeting, Washington DC August, **2000**.
6. Tetraalkylammonium Hydroxides: Highly Reactive and Efficient Bases for Hydrolysis of Esters. Ahmed F. Abdel-Magid, Cynthia A. Maryanoff, Rekha D. Shah, Frank J. Villani and Fan Zhang. The 35<sup>th</sup> National Organic Chemistry Symposium, San Antonio, TX, June **1997**, paper W287.
7. Reductive Amination of Aldehydes and Ketones Using Sodium Triacetoxyborohydride. Ahmed F. Abdel-Magid, Kenneth G. Carson, Bruce D. Harris, Cynthia A. Maryanoff; The 33<sup>rd</sup> National Organic Chemistry Symposium, Bozeman, MT, June **1993**, paper A-4.
8. A Reductive Amination/Lactamization Procedure Using Borohydride Reagents. Ahmed F. Abdel-Magid, Bruce D. Harris, Cynthia A. Maryanoff; The 202<sup>nd</sup> ACS National Meeting, New York City, August **1991**, paper ORGN 242.

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9. Reductive Amination of Aldehydes and Ketones with Various Weakly Basic Anilines Using Sodium Triacetoxyborohydride. Ahmed F. Abdel-Magid, Cynthia A. Maryanoff; The 200<sup>th</sup> ACS National Meeting, Washington, D.C., August **1990**, paper ORGN 7.
10. "Reductive Lactamization Using Borohydride Reagents." Ahmed F. Abdel-Magid, Bruce D. Harris, Cynthia A. Maryanoff. The 18th Annual NOBCCChE National Conference, Washington, D. C.; April **1991**; Abstract of Papers, p 59.
11. "Reductive Lactamization Using Borohydride Reagents." Ahmed F. Abdel-Magid, Bruce D. Harris, Cynthia A. Maryanoff. The 25<sup>th</sup> Annual Mid-Atlantic Regional ACS Meeting, University of Delaware, Newark, DE; May **1991**; Paper 186.
12. "Reductive Amination of Aldehydes and Ketones with Sodium Triacetoxyborohydride." Ahmed F. Abdel-Magid, Bruce D. Harris, Cynthia A. Maryanoff. The 19<sup>th</sup> Annual NOBCCChE National Conference, New Orleans, LA.; April **1990**; Abstract of Papers, p 50.
13. Studies on the Reductive Amination of Aldehydes and Ketones Using Sodium Triacetoxyborohydride. Ahmed F. Abdel-Magid; Cynthia A. Maryanoff; Kirk L. Sorgi, Kenneth G. Carson; The **1989** International Chemical Congress of Pacific Basin Societies, Honolulu, HI, December **1989**; paper ORGN 409.
14. Studies on the Reductive Amination of Aldehydes and Ketones Using Sodium Triacetoxyborohydride. Ahmed F. Abdel-Magid, Cynthia A. Maryanoff, Kirk L. Sorgi, Kenneth G. Carson; The 198<sup>th</sup> ACS National Meeting, Miami Beach, Florida, September **1989**; paper ORGN 154.
15. Reduction of Ketone Phosphinimides to Phosphoramides with Chiral Hydride Reagents. Enantioselective Synthesis of Protected Primary Amines and Aminoacides. Robert O. Hutchins, Ahmed Abdel-Magid, Yuriy P. Stercho, Anthony Wambsgans; The 194<sup>th</sup> ACS National Meeting, New Orleans, Louisiana, August **1987**; paper ORGN 103.
16. Enantio and Diastereoselective Reductions of Ketone Phosphinimides to protected Amines. Robert O. Hutchins, Yuriy P. Stercho, Ahmed Abdel-Magid. The 190<sup>th</sup> ACS National Meeting, Chicago, Illinois, September **1985**.
17. Aldol Condensations of Chiral Haloimides. A Chiral Darzens Condensation Procedure. Ivan Lantos, Ahmed Abdel-Magid, Lendon N. Pridgen, The 36<sup>th</sup> ACS Southeastern Regional Meeting, Raleigh, North Carolina, October **1984**.
18. A Unified Enantiodivergent Approach to Prostanoids and Corticosteroids Synthesis. Steven Burke, David Magnin, Jeff Oplinger, Julia Baker, Ahmed Abdel-Magid, 186<sup>th</sup> ACS National Meeting, Washington, DC, August **1983**.
19. The Synthesis and Photochemistry of  $\beta,\gamma$ -unsaturated Ketones. Ahmed Abdel-Magid, John R. Williams. The 14<sup>th</sup> Middle Atlantic Regional Meeting of the ACS, Valley Forge, Pennsylvania, April, **1980**.

### PROFESSIONAL PRESENTATIONS (INVITED LECTURES)

1. *Reductive Amination of Aldehydes and Ketones Using Sodium Triacetoxyborohydride*. Dartmouth College, October **1993**.

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2. *Reductive Amination of Aldehydes and Ketones Using Sodium Triacetoxyborohydride*. Temple University, February **1994**.
3. *Reductive Amination of Aldehydes and Ketones Using Sodium Triacetoxyborohydride*. Drexel University, April **1994**.
4. *Process Development for the Synthesis of KL-4: a 21 Amino Acid Synthetic Protein*. Gordon Research Conference, Organic Reactions and Processes, July **1996**.
5. *The Use of Sodium Triacetoxyborohydride in Reductive Amination Reactions*. Symposium on Industrial Applications of Boron Hydride Chemistries, I & EC Division, 216<sup>th</sup> National ACS Meeting, Boston, MA, August **1998**.
6. *Sodium Triacetoxyborohydride: A Versatile Reagent for the Reductive Amination of Ketones and Aldehydes*. Rohm & Haas Boron Hydride Seminar, Newark, NJ, April **2000**.
7. *Synthesis of RWJ-270201. A Novel Neuraminidase Inhibitor*. 4<sup>th</sup> International Organic Process Research & Development, Scientific Updates, Hong Kong, March **2001**.
8. *Advances in Chemical Process Research*. University of California, Riverside, CA, May **2001**.
9. *Advances in Chemical Process Research*. Balticum Organicum Syntheticum (BOS 06), Tallinn, Estonia, June 25-29, **2006**.
10. *Advances in Chemical Process Research*. Philadelphia Organic Chemists' Club, (Award Address) Philadelphia, PA, April 19, **2007**.

## ORGANIZED SYMPOSIA

1. *Arthur C. Cope and Arthur C. Cope Scholars Award Symposium*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.
2. *Asymmetric Reactions and Syntheses*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.
3. *Biologically-Related Molecules & Processes*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.
4. *Heterocycles and Aromatics*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.
5. *Material, Devices and Switches*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.
6. *Metal-Mediated Reactions & Syntheses*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.
7. *Molecular Recognition and Self-Assembly*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.
8. *New Reactions and Methodology*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.
9. *Peptides, Proteins and Amino Acids*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.

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10. *Physical Organic Chemistry: Calculations, Mechanisms, Photochemistry and High-Energy Species*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.
11. *Total Synthesis of Complex Molecules*. The 242<sup>nd</sup> ACS National Meeting, August **2011**, Denver, CO, Program Chair-Organizer.
12. *Asymmetric Reactions and Syntheses*. The 241<sup>st</sup> ACS National Meeting, March **2011**, Anaheim, CA, Program Chair-Organizer.
13. *Biologically-Related Molecules & Processes*. The 241<sup>st</sup> ACS National Meeting, March **2011**, Anaheim, CA, Program Chair-Organizer.
14. *Heterocycles and Aromatics*. The 241<sup>st</sup> ACS National Meeting, March **2011**, Anaheim, CA, Program Chair-Organizer.
15. *Material, Devices and Switches*. The 241<sup>st</sup> ACS National Meeting, March **2011**, Anaheim, CA, Program Chair-Organizer.
16. *Metal-Mediated Reactions & Syntheses*. The 241<sup>st</sup> ACS National Meeting, March **2011**, Anaheim, CA, Program Chair-Organizer.
17. *Molecular Recognition and Self-Assembly*. The 241<sup>st</sup> ACS National Meeting, March **2011**, Anaheim, CA, Program Chair-Organizer.
18. *New Reactions and Methodology*. The 241<sup>st</sup> ACS National Meeting, March **2011**, Anaheim, CA, Program Chair-Organizer.
19. *Peptides, Proteins and Amino Acids*. The 241<sup>st</sup> ACS National Meeting, March **2011**, Anaheim, CA, Program Chair-Organizer.
20. *Physical Organic Chemistry: Calculations, Mechanisms, Photochemistry and High-Energy Species*. The 241<sup>st</sup> ACS National Meeting, March **2011**, Anaheim, CA, Program Chair-Organizer.
21. *Total Synthesis of Complex Molecules*. The 241<sup>st</sup> ACS National Meeting, March **2011**, Anaheim, CA, Program Chair-Organizer.
22. *Chemistry for Preventing & Combating Disease, New Reactions & Methodology and Total Synthesis of Complex Molecules* (Poster Session). The 240<sup>th</sup> ACS National Meeting, August **2010**, Boston, MA, Program Chair Elect-Organizer.
23. *Asymmetric Reactions and Syntheses, Biologically-Related Molecules & Processes, Material, Devices & Switches and Peptides, Proteins & Amino Acids* (Poster Session). The 240<sup>th</sup> ACS National Meeting, August **2010**, Boston, MA, Program Chair Elect-Organizer.
24. *Sci-Mix* (Poster Session). The 240<sup>th</sup> ACS National Meeting, August **2010**, Boston, MA, Program Chair Elect-Organizer.
25. *Heterocycles and Aromatics, Metal-Mediated Reactions & Syntheses, Molecular Recognition & Self-Assembly and Physical Organic Chemistry: Calculations, Mechanisms, Photochemistry & High-Energy Species* (Poster Session). The 240<sup>th</sup> ACS National Meeting, August **2010**, Boston, MA, Program Chair Elect-Organizer.
26. *Chemistry for a Sustainable World, Metal-Mediated Reactions & Syntheses, Peptides, Proteins & Amino Acids, New Reactions and Methodology* (Poster Session). The 239<sup>th</sup> ACS National Meeting, San Francisco, CA, March, **2010**, Program Chair Elect-Organizer.

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27. *Total Synthesis of Complex Molecules, Material Devices & Switches, Physical Organic Chemistry* (Poster Session). The 239<sup>th</sup> ACS National Meeting, San Francisco, CA, March, **2010**, Program Chair Elect-Organizer.
28. *Sci-Mix* (Poster Session). The 239<sup>th</sup> ACS National Meeting, San Francisco, CA, March, **2010**, Program Chair Elect-Organizer.
29. *Asymmetric Reactions & Syntheses, Heterocycles & Aromatics and Biologically-Related Molecules & Processes* (Poster Session). The 239<sup>th</sup> ACS National Meeting, San Francisco, CA, March, **2010**, Program Chair Elect-Organizer.
30. *Heterocycles and Aromatics, Asymmetric Reactions and Syntheses and Total Synthesis of Complex Molecules* (Poster Session). The 238<sup>th</sup> ACS National Meeting, Washington, DC, August, **2009**, Program Chair Elect-Organizer.
31. *New Reactions and Methodology, Physical Organic Chemistry, Molecular Recognition/Self Assembly and Proteins, Peptides and Amino Acids* (Poster Session). The 238<sup>th</sup> ACS National Meeting, Washington, DC, August, **2009**, Program Chair Elect-Organizer.
32. *Sci-Mix* (Poster Session). The 238<sup>th</sup> ACS National Meeting, Washington, DC, August, **2009**, Program Chair Elect-Organizer.
33. *Metal Mediated Reactions and Syntheses, Biologically-Related Molecules and Processes and Material, Devices and Switches* (Poster Session). The 238<sup>th</sup> ACS National Meeting, Washington, DC, August, **2009**, Program Chair Elect-Organizer.
34. *New Reactions, Metal-Mediated Reactions, Total Synthesis of Complex Molecules, Peptides, Proteins and Amino Acids* (Poster Session). The 237<sup>th</sup> ACS National Meeting, Salt Lake City, UT, March, **2009**, Program Chair Elect-Organizer.
35. *Physical Organic Chemistry, Molecular Recognition, Self-Assembly and Biomolecules* (Poster Session). The 237<sup>th</sup> ACS National Meeting, Salt Lake City, UT, March, **2009**, Program Chair Elect-Organizer.
36. *Sci-Mix* (Poster Session). The 237<sup>th</sup> ACS National Meeting, Salt Lake City, UT, March, **2009**, Program Chair Elect-Organizer.
37. *Heterocycles, Aromatics, Asymmetric Reactions, Materials, Devices and Switches* (Poster Session). The 237<sup>th</sup> ACS National Meeting, Salt Lake City, UT, March, **2009**, Program Chair Elect-Organizer.
38. *The Role of Organic Synthesis in Early Clinical Drug Development IV*. The 236<sup>th</sup> National ACS Meeting, Philadelphia, PA August, **2008**, Program Chair Elect-Organizer.
39. *The Nobel Laureate Signature Award Symposium*, The 233<sup>rd</sup> National ACS Meeting, Chicago, Ill, March **2007**, Organizer/Presiding.
40. *The Role of Organic Synthesis in Early Clinical Drug Development III*, The 231<sup>st</sup> National ACS Meeting, Atlanta, GA March **2006**, Organizer/ Presiding.
41. *The 39<sup>th</sup> National Organic Chemistry Symposium (NOS 2005)*. The University of Utah, Salt Lake City, Utah. June 12-16, **2005**. Symposium Executive Officer.
42. *The Role of Organic Synthesis in Early Clinical Drug Development II*, The 224<sup>th</sup> National ACS Meeting, New York, N.Y. September **2003**, Organizer/ Presiding.

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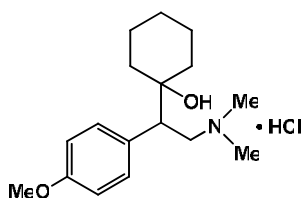


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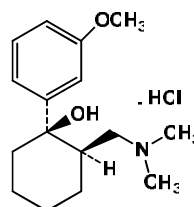
43. *The Role of Organic Synthesis in Early Clinical Drug Development*, The 222<sup>nd</sup> National ACS Meeting, Chicago, Ill. August **2001**, Organizer/ Presiding.
44. *Radiopharmaceuticals Designed to Monitor Cancer Therapy, Degenerative Disease and Optically Active Drugs: The Francis P. Garvin - John M. Olin Medal Award Symposium*, 215<sup>th</sup> National ACS Meeting, Dallas, TX. March **1998**, Organizer/ Presiding.
45. *Advances In Process Chemistry*. 30<sup>th</sup> ACS Middle Atlantic Regional Meeting, Villanova University, May **1996**, Organizer/ Presiding.
46. *Reduction in Organic Chemistry*. **The 210<sup>th</sup> National ACS Meeting**, Chicago, Ill. August **1995**, Organizer/Presiding.

## EXAMPLES OF DEVELOPED MOLECULES

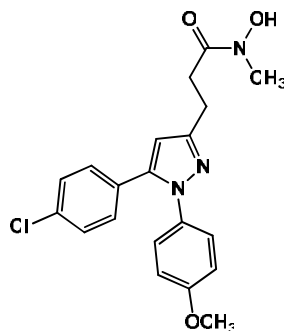
Worked on the chemical process development of a large number of drug candidates at Wyeth and J&J, the illustrated structures are examples of molecules that were advances to later stages or became commercial drugs.



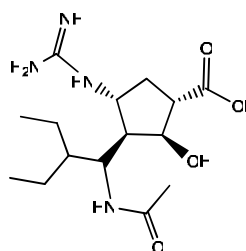
**Effexor XR**  
Venlafaxine hydrochloride



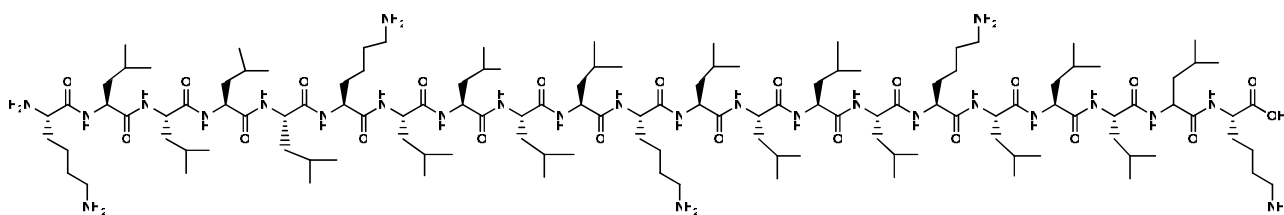
**Ultram**  
Tramadol HCl



**Tepoxalin**



**Peramivir**



**KL4 (Surfaxin)**