

# Curriculum Vitae of Salvatore D. Lepore

(October 2016)

## EDUCATION

Postdoctoral Fellow (2000), Eli Lilly and Company (with Michael R. Wiley), Indianapolis, IN

Ph.D. Organic Chemistry (1997), Purdue University (with Merritt B. Andrus), West Lafayette, IN

B.S. Chemical Engineering *cum laude* (1992), University of South Florida, Tampa, FL

## PROFESSORIAL EXPERIENCE

(FAU Department of Chemistry & Biochemistry)

Professor (2011 - present)

Associate Professor (2006 – 2011)

Assistant Professor (2000 – 2006)

FAU Multicultural Pre-Medical Society Teaching Appreciation Award Recipient (2002)

FAU Presidential Research Award (2001)  
(Only two awards given across all faculty ranks)

Petroleum Research Foundation Graduate Fellow (1994-1996)

Dow Chemical Outstanding Junior of the Year Award Recipient (1991)

Tau Beta Pi National Engineering Honor Society (1991)

National Science Foundation Undergraduate Summer Research Grantee (1991)

University of South Florida Faculty/Staff Scholarship Recipient (1990)

## RELATED PROFESSIONAL EXPERIENCE

Associate Editor - *Perspectives in Medicinal Chemistry* (Libertas Academica)  
Open access journal. 2006 - Present

Grant Reviewer: Ad-Hoc National Institutes of Health, SBC-A Study Section (Feb, 2014)

Scientific Advisory Board Member - CHS Pharma

Consultant for Akerman Senterfitt (law firm), ASE Pharmaceuticals, Florida Crystals, Sunol Biomolecular, Unison Pharmaceuticals, and Xcovery. 2003 – Present

Chief Scientist, Custom Synthesis Incorporated (an FAU spin-out company). 2004 – 2006.

Chemical Engineer – Delta Environmental Consultants (now Antea USA) Tampa, FL 1991 - 1993.

## RESEARCH and OTHER SCHOLARLY ACTIVITIES

### REFEREED WORKS

Career total is 35 blind peer-reviewed papers

- Not including patents, reviews, and book chapters
- Average impact factor (IF) last five years (5.3)

Roy, A.; Bhat, B. A.; Lepore, S. D. Asymmetric Protonation of Cumulenolates: Synthesis of Allenyl Aldehydes Facilitated by an Organomanganese Auxiliary. *Org. Lett.* **2016**, *18*, 1230.

Nagy, E.; St.Germain, E.; Cosme, P.; Maity, P.; Terentis, A. C.; Lepore, S. D. Ammonium Catalyzed Cyclitive Additions: Evidence for a Cation- $\pi$  Interaction with Alkynes. *ChemComm* **2016**, *52*, 2311.

Jana, S.; Suresh, V.; Lepore, S. D. Synthesis of Novel C-Pivot Lariat 18-Crown-6 Ethers and their Efficient Purification. *Synlett* **2015**, *26*, 1977.

Roy, A.; Bhat, B. A.; Lepore, S. D. Organo-Manganese  $\eta^2$ -Auxiliary Directed Reactions: A Diastereoselective Approach to 2,3-Allenols. *Org. Lett.* **2015**, *17*, 900.

## HONORS and AWARDS

University of Rome (La Sapienza) Visiting Professor Fellowship (Fall 2015)

FAU College of Science Researcher of the Year Award (2012) (Full Professor Category)

FAU College of Science Researcher of the Year Award (2011) (Associate Professor Category)

FAU Distinguished Science Teacher of the Year (2009 and 2003)  
(One award given within College of Science)

FAU University Researcher of the Year Award (2006) (Assistant Professor Category)

H. Lee Moffitt Cancer Center Honoree (2006)

- Al-huniti, M. H.; Lepore, S. D. Zinc(II) Catalyzed Conversion of Alkynes to Vinyl Triflates in the Presence of Silyl Triflates. *Org. Lett.* **2014**, *16*, 4154.
- Bhat, B. A.; Maki, S. L.; St.Germain, E. J.; Maity, P.; Lepore, S. D. Annulation Reactions of Allenyl Esters: an Approach to Bicyclic Diones and Medium-Sized Rings. *J. Org. Chem.* **2014**, *79*, 9402.
- Al-huniti, M. H.; Lu, S.-Y.; Pike, V. W.; Lepore, S. D. Enhanced Nucleophilic Fluorination and Radiofluorination of Organosilanes Appended with Potassium-Chelating Leaving Groups. *J. Fluor. Chem.* **2014**, *158*, 48.
- Al-huniti, M. H.; Lepore, S. D. Stereoretentive Copper (II) Catalyzed Ritter Reactions of Secondary Cycloalkanols. *Adv. Synth. Catal.* **2013**, *355*, 3071.
- Mondal, D.; Li, S. L.; Bellucci, L.; Laino, T.; Tafi, A.; Guccione, S.; Lepore, S. D. Stereoretentive Chlorination of Cyclic Alcohols Catalyzed by Titanium (IV) Tetrachloride: Evidence for a Front-Side Attack Mechanism. *J. Org. Chem.* **2013**, *78*, 2118.
- Mondal, D.; Bellucci, L.; Lepore, S. D. A Direct and Stereoretentive Synthesis of Amides from Cyclic Alcohols. *Eur. J. Org. Chem.* **2011**, 7057.
- Maity, P.; Lepore, S.D. Catalytic synthesis of non-racemic azaproline derivatives via a kinetic-resolution based cyclization of  $\beta$ -alkynyl hydrazines. *Angew. Chem. Int. Ed.* **2011**, *50*, 8338.
- Bhowmick, M.; Lepore, S. D. Manganese  $\eta^2$ -Complexes as Auxiliaries for Stereoselective Aldol Additions: Efficient Synthesis of Highly Functionalized Allenyl Carbinols. *Organic Lett.* **2010**, *12*, 5078.
- Bhowmick, M.; Sappidi, R.; Fields, G.B.; Lepore, S.D. Efficient Synthesis of Fmoc-Protected Phosphinic Pseudodipeptides: Building Blocks for the Synthesis of Matrix Metalloproteinase Inhibitors (MMPis). *Biopolymers (Peptide Science)* **2010**, *96*, 1.
- Lu, S.-Y.; Lepore, S. D.; Li, S. Y.; Mondal, D.; Cohn, P. C.; Bhunia, A. K.; Pike, V. W. Nucleophile Assisting Leaving Groups: A Strategy for Aliphatic  $^{18}\text{F}$ -Fluorination. *J. Org. Chem.* **2009**, *74*, 5290-5296.
- Maity, P.; Lepore, S.D. Anion Catalyzed Addition of  $\gamma$ -Silylallenyl Esters to Aldehydes: A New Entry into [3.2.1] Bicyclic Natural Products. *J. Am. Chem. Soc.* **2009**, *131*, 4196.
- Maity, P.; Lepore, S.D. Selective One-Pot Synthesis of Allenyl and Alkynyl Esters from  $\beta$ -Ketoesters. *J. Org. Chem.* **2009**, *74*, 158.
- Lepore, S.D.; Mondal, D.; Li, S.Y.; Bhunia, A.K. Stereoretentive Halogenations and Azidations with Titanium(IV) Enabled by Chelating Leaving Groups. *Angew. Chem. Int. Ed.* **2008**, *47*, 7511.
- Lu, S. Y.; Li, S. Y.; Lepore, S. D.; Pike, V. W. ( $^{18}\text{F}$ )Fluorination of Alkyl Sulfonate is Enhanced by Arylsulfonate-Based Nucleophile Assisting Leaving Groups (NALGs) Under Microwave Irradiation. *J. Labelled Compd. Radiopharm.* **2007**, *50 (Suppl. 1)*, S5.
- Lepore, S.D.; Bhunia, A.K.; Mondal, D.; Cohn, P.C.; Lefkowitz, C. Rapid Conversion of Hindered Arylsulfonates to Alkyl Chlorides with Retention of Configuration. *J. Org. Chem.* **2006**, *71*, 3285.
- Silvestri, M.A.; He, C.; Khoram, A.; Lepore, S.D. Synthesis of Methyl 2-Oxo-5-Vinyl-2,5-Tetrahydrofuran-3-Carboxylate. *Tetrahedron Lett.* **2006**, *47*, 1625.
- Lepore, S.D.; Bhunia, A.K.; Cohn, P. Arylsulfonate Based Nucleophile Assisting Leaving Groups (NALGs). *J. Org. Chem.* **2005**, *70*, 8117.
- Silvestri, M.A.; Bromfield, D.C.; Lepore, S.D. Michael-Stork Addition of Cyclopentyl Enamine to Allenyl Ketones and Esters. *J. Org. Chem.* **2005**, *70*, 8239.
- Lepore, S.D.; Khoram, A.; Bromfield, D.C.; Cohn, P.; Jairaj, V.; Silvestri, M.A. Studies on the Manganese Mediated Isomerization of Alkynyl Carbonyls to Allenyl Carbonyls. *J. Org. Chem.* **2005**, *70*, 7443.
- Lepore, S.D.; He, Y.J. Deconjugative Conversion of  $\alpha$ -Alkynyl Esters to  $\alpha,\alpha$ -Disubstituted  $\beta$ -Alkynyl Esters. *J. Org. Chem.* **2005**, *70*, 4546.
- Lepore, S.D.; He, Y.J.; Damsse, P. Studies on the Base-Promoted Conversion of Conjugated Alkynyl Esters to  $\alpha$ -Substituted  $\alpha$ -Allenyl Esters. *J. Org. Chem.* **2004**, *69*, 9171.
- Lepore, S.D.; He, Y.J. Use of Sonication for the Coupling of Sterically Hindered Substrates in the Phenolic Mitsunobu Reaction. *J. Org. Chem.* **2003**, *68*, 8261.
- Lepore, S.D.; Wiley, M.R. Application of Aryloximes as Solid-Phase Ketone Linkers. *Organic Lett.* **2003**, *5*, 7.
- Lepore, S.D.; Schacht, A.L.; Wiley, M.R. Preparation of 2-Hydroxybenzamidines from 3-Aminobenz-isoxazoles. *Tetrahedron Lett.* **2002**, *43*, 8777.

Zhang, Z.; Lepore, S.D. Synthesis of cyclopentadienyl manganese tricarbonyl resins as potential olefin traceless supports. *Tetrahedron Lett.* **2002**, *43*, 7357.

Lepore, S.D. The use of 18-crown-6 as an ionizable phase label for the expedited synthesis of small molecules. *Tetrahedron Lett.* **2001**, *42*, 6437.

Lepore, S.D.; Wiley, M.R. Studies on the Synthetic Compatibility of Aryloxime Linkers in the Solid Phase Synthesis of 3-Aminobenzisoxazoles. *J. Org. Chem.* **2000**, *65*, 2924.

Lepore, S.D.; Wiley, M.R. Use of the Kaiser Oxime Resin in the Solid Phase Synthesis of 3-Aminobenzisoxazoles. *J. Org. Chem.* **1999**, *64*, 4547.

Andrus, M.B.; Lepore, S.D.; Turner, T.M. Total Synthesis of Stipiamide and Designed Polyenes as New Agents for the Reversal of Multidrug Resistance. *J. Am. Chem. Soc.*, **1997**, *119*, 12159.

Andrus, M.B.; Lepore, S.D.; Sclafani, J.A. Selective Dihydroxylation of Non-Conjugated Dienes in Favor of the Terminal Olefin. *Tetrahedron Lett.* **1997**, *38*, 4043.

Andrus, M.B.; Lepore, S.D. Synthesis of Stipiamide and a New Multidrug Resistance Reversal Agent, 6,7-Dehydrostipiamide. *J. Am. Chem. Soc.*, **1997**, *119*, 2327.

Andrus, M.B.; Lepore, S.D. Asymmetric Additions to Dichlorophenyl Dioxane, a New Chiral Acetal. *Tetrahedron Lett.* **1995**, *36*, 9149.

#### BOOK CHAPTERS and REVIEWS

Lepore, S.D.; Mondal, D.; Li, S.Y. *SynForm* **2009**, *2*, A16.

Li, S. Y.; Lepore S.D. 2-(2-methoxyethoxy)-ethyl 2-(chlorosulfonyl)-benzoate. *Encyclopedia of Reagents for Organic Synthesis* **2008** (2<sup>nd</sup> ed., vol. 8) pg. 6629.

Lepore, S.D.; Mondal, D. Recent Advances in Heterolytic Nucleofugal Leaving Groups *Tetrahedron* **2007**, *63*, 5103-5122.

#### PATENTS and APPLICATIONS

Lepore, S.D.; Silvestri, Maximilian. Non-oxidative Termination of Ruthenium Catalyzed Olefin Metathesis Reactions. App. No. 62149836 (FAU, **2015**).

Lepore, S.D. Nucleophile Assisting Leaving Groups. *US 8,822,707 B2* (FAU, **2014**). Licensed

by FAU to Sigma-Aldrich in 2010. **Currently an Aldrich catalog item (specialty reagent).**

Argade, A.B.; Goodson, T.; Herron, D.K.; Joseph, S.; Lepore, S.D; Marquart, et al. Preparation of (hetero)aromatic ether amides as inhibitors of Factor Xa and/or thrombin. *WO 2006057845* (Eli Lilly, **2006**)

Lepore, S.D.; Wiley, M.R. Solid phase synthesis of ketone group containing molecules. *WO 2001036362* (Eli Lilly, **2001**)

Wiley, M.R.; Lepore, S.D. Use of aryloxime linkers in the solid-phase synthesis of 3-amino-1,2-benzisoxazoles and polycyclic heterocyclic analogs. *WO 2000027627* (Eli Lilly, **2000**)

Wiley, M.R.; Lepore, S.D. Preparation of aminobenzisoxazole compounds and libraries as thrombin inhibitors. *WO 2000027199* (Eli Lilly, **2000**)

#### CONTRACTS and GRANTS RECEIVED

##### 2014

"Synthesis of a Bridged Bicyclic Natural Product Using Allenyl Esters" (4/14 - 3/17)  
Agency: NIH (NIGMS), GM110651  
Direct Costs: \$210,000 Indirect Costs: \$101,320

"New Natural Product Derived HIV Entry Inhibitors" and "Ultrafast Silicon F18-Fluorination for PET Medical Imaging"  
Agency: FAU Seed Grants (two awarded)  
Direct Costs: \$15,500 and \$22,900

##### 2013

"Total Synthesis of Garsubellin A" (9/13 - 9/14)  
Agency: Indo-US Science and Technology Forum  
Direct Costs: \$38,000 Indirect Costs: \$0  
FAU Matching Funds: \$8,000

##### 2011

"Elucidation of Reactions Mediated by Sulfidic Carbonate and Clay Depositions" (1/12 - 12/13)  
Agency: Amer. Chem. Soc. PRF (51785-ND2)  
Direct Costs: \$100,000

Torrey Pines Institute (8/11 - 8/12)  
Direct Costs: \$40,100 Indirect Costs: \$3,208

##### 2010

"New Methods for the Expedited Synthesis of C11 and F18 PET Tracers" (4/10 - 1/13)  
Agency: NIH (1R21MH087932-01A1)  
Direct Costs: \$450,000 Indirect Costs: \$200,250

Torrey Pines Institute (8/10 - 8/11)  
Direct Costs: \$40,100 Indirect Costs: \$3,208

## 2009

"Identification of Active Compounds in Treated Calendula Extracts" (12/09 - 11/10)  
Agency: Unison Pharmaceuticals, Inc.  
Direct Costs: \$20,077 Indirect Costs: \$9,436

"Synthesis of NALG Compounds" (11/09 - 11/10)  
Agency: NIH (NIMH)  
Direct Costs: \$18,800 Indirect Costs: \$1,200

## 2005

"Synthesis of azaphilone analogs as HIV entry inhibitors" (6/05 - 5/10)  
Agency: NIH (NIGMS), S06 GM073621-01  
Direct Costs: \$545,000 Indirect Costs: \$223,500

## 2004

"Synthesis of quinazoline derivatives" (9/04 - 6/05)  
Agency: The Scripps Research Institute (Florida)  
Direct Costs: \$14,592 Indirect Costs: \$5,909

"Chemical synthesis of sucrose derivatives and subsequent antimicrobial testing" (10/04 - 6/06)  
Agency: Florida Crystals Corporation  
Direct Costs: \$20,000 Indirect Costs: \$8,100

Chemical synthesis of "Product C" (8/03 - 7/04)  
Agency: Florida Crystals Corporation  
Direct Costs: \$9,700 Indirect Costs: \$2,425

## 2003

"Synthesis of Pyran Bicyclic Natural Products" (5/1/03 - 4/30/05)  
Agency: NIH (NIGMS), R15 GM067635-01  
Direct Costs: \$100,000 Indirect Costs: \$39,000

"Solid-Phase Approach to the Synthesis of C11 PET Tracers" (3/03 - 2/06)  
Agency: NIH (NIMH), R03 MH66963-01  
Direct Costs: \$139,000 Indirect Costs: \$55,000

"Purchase of an NMR for Teaching Creative Problem Solving Skills in the Chemistry Laboratory Program at FAU" (9/03 - 8/05)  
Agency: NSF (DUE), 0311369  
Direct Costs: \$133,620 FAU-Match: \$116,520  
Indirect Costs: \$8,990

"Chemical synthesis of simplified analogs of verbenalloside an anti-tumor agent" (9/03 - 8/05)  
Agency: FAU Center of Excellence  
Direct Costs: \$70,000 Indirect Costs: none

## 2002

"Manganese  $\eta^2$ -Bond as a Solid-Phase Traceless Linker for the Expedited Synthesis of Olefins" (summer fellowship) (5/02 - 8/02)  
Agency: ACS PRF (Type G), 36633-G1  
Direct Costs: \$8,000 Indirect Costs: none

"Enantioselective Conversion of Alkynes to Allenes: Application to the Synthesis of Anti-HIV Compounds" (3/02 - 2/03)  
Agency: Florida Atlantic University - Research Initiation Award  
Direct Costs: \$5,000 Indirect Costs: none

"Sulfonate resins for the synthesis of  $^{18}\text{F}$ -labeled PET tracers" (6/02 - 5/06)  
Agency: NIH (PO # 263-MD-212362)  
Direct Costs: \$42,186 Indirect Costs: \$9,214

Donation of methylcyclopentadienyl manganese tricarbonyl (MMT)  
Agency: Ethyl Corporation  
Estimated value: \$12,000 Indirect Costs: none

## 2001

"Manganese  $\eta^2$ -Bond as a Solid-Phase Traceless Linker or the Expedited Synthesis of Olefins" (9/01 - 8/03)  
Agency: ACS PRF (Type G), 36633-G1  
Direct Costs: \$25,000 Indirect Costs: none

"Synthesis and SAR Study of Isochromophilone II - an HIV Prophylactic Agent" (7/01 - 6/02)  
Agency: Florida Atlantic University - Presidential Research Development Award  
Direct Costs: \$25,000 Indirect Costs: none

"Development of a New Method for the Solid-Phase Synthesis of Medicinally-Relevant Alkenes" (3/01 - 2/02)  
Agency: FAU - Research Innovation Award  
Direct Costs: \$5,000 Indirect Costs: none

## PROCEEDINGS

(including 20 invited lectures and one chaired session)

Nagy, E.; Lepore, S. D. Studies on Ammonium-Catalyzed Cyclitive Additions to Alkynes: A General Approach to Diheteroatom Heterocycles. ACS Div. Organic Chemistry Symposium. Bryn Mawr, PA July (2016).

Jana, S.; Roy, A.; Lepore, S. D. Diversification reactions of  $\gamma$ -silyl allenyl esters: selective conversion to  $\gamma$ -disubstituted allenes and all-carbon

quaternary centers. Abstracts of Papers, ACS National Meeting, San Diego, March (2016)

Jana, S.; Al-hunuti, M. H.; Lepore, S. D. Crown Ether Nucleophilic Catalysts (CENCs) for the Ultrafast Fluorination of Silicon. Abstracts of Papers, ACS National Meeting, San Diego, March (2016)

Maki, S. L.; St.Germain, E. J.; Yadavalli, K. P.; Maity, P.; Lepore, S. D. Construction of congested bridged bicyclic systems: Progress towards the first total synthesis of an anti-thrombotic natural product. Pacifichem, Honolulu, HI, December (2015)

Lepore, S. D. Stereoselective construction of functionalized allenes and subsequent diversification. *Invited lecture* for University of Siena, Italy, October (2015) and University of Rome (La Sapienza) Italy, November (2015)

Lepore, S. D. New Methods for the Stereoselective Synthesis of Functionalized Allenes Using a Traceless Organomanganese Auxiliary. *Invited lecture* for the Department of Chemistry, Kyoto University (Kyoto, Japan) April (2015)

Nagy, E.; Lepore, S. D. Ammonium-catalyzed alkyne additions: A unified method for the synthesis of isoxazolidines and pyrazolidines. Abstracts of Papers, ACS National Meeting, Boston, MA, August (2015)

Nagy, E.; Roy, A.; Lepore, S. D. Regio- and stereoselective additions to enynes containing an organo-manganese auxiliary leading to highly substituted allenyl aldehyde products. Abstracts of Papers, ACS National Meeting, Denver, CO, (2015)

Roy, A.; Lepore, S. D. Asymmetric isomerization of alkynyl to allenyl aldehydes bearing a traceless organo-manganese  $\eta^2$ -auxiliary. Abstracts of Papers, ACS National Meeting, Denver, CO, March (2015)

Roy, A.; Lepore, S. D. Stereoselective synthesis of allenyl alcohols using an organomanganese  $\eta^2$ -auxiliary: A new entry to furo-furanone natural products. Abstracts of Papers, ACS National Meeting, Denver, CO, March (2015)

Nagy, E.; St.Germain, E.; Maity, P.; Lepore, S. D. Ammonium catalyzed cyclitive additions: Evidence for a cation- $\pi$  interaction with alkynes. Abstracts of Papers, ACS National Meeting, Dallas, TX, March (2014)

Roy, A.; Lepore, S.D. Diastereoselective Additions to Allenyl Aldehydes Directed by an Organo-Manganese  $\eta^2$ -Auxiliary. ACS National Organic Symposium (Seattle, WA) June (2013).

Lepore S.D. New Reactions Enabled by Nucleophile Assisting Leaving Groups (NALGs) *Invited lecture* for the Department of Diagnostic Radiology at the Yale University School of Medicine (New Haven, CT) October (2012)

Lepore S.D. Development of Nucleophile Assisting Leaving Groups (NALGs) for Enhanced Reactivity in Substitution Reactions. *Invited lecture* for Distinguished Lecture Series at Torrey Pines Institute for Molecular Studies (Port St. Lucie, Florida) July (2011)

Lepore S.D. Development of Nucleophile Assisting Leaving Groups (NALGs) for Enhanced Reactivity in Substitution Reactions. *Invited lecture* for University of Rome, Italy (La Sapienza) & University of Athens, Greece, June (2011)

Lepore, S.D. Development of Nucleophile Assisting Leaving Groups (NALGs) for Enhanced Reactivity in Substitution Reactions. *Invited lecture* for Emory University, Atlanta, March (2011)

Mondal, D.; Li, S. Y.; Lepore, S. D. Revisiting reactions of thionyl chloride: Stereoretentive methods for the one-pot synthesis of halides and amides from alcohols. Pacifichem, Honolulu, HI, December (2010)

Lepore, S.D. New Synthesis Methods Involving Allenyl Carbonyl Compounds and Development of Nucleophile Assisting Leaving Groups (NALGs). *Invited lecture* for The Scripps Research Institute (Jupiter, Florida) (November 2010)

Maity, P.; Lepore, S.D. Organocatalytic amination of allenyl esters and subsequent cyclization to form azaproline derivatives. Abstracts of Papers, 240th ACS Nat. Meeting, Boston, MA August (2010)

Li, S.; Lepore, S.D. Stereoretentive and mild halogenation of cyclic alcohols catalyzed by titanium (IV) reagents: Evidence for a new front-side attack mechanism. Abstracts of Papers, 240th ACS Nat. Meeting, Boston, MA August (2010)

Lepore, S.D. New Synthesis Methods Involving Allenyl Carbonyl Compounds and Development of Nucleophile Assisting Leaving Groups (NALGs), *Invited Lecture* for Brigham Young University March (2009)

Lepore, S.D.; Mondal, D. New Titanium (IV) Mediated Reactions with Chelating Leaving Groups: Stereoretentive One-Step Benzoylation of Secondary Alcohols. Abstracts of Papers, 237th ACS Nat. Meeting, Salt Lake City, UT, March (2009)

Lepore, S.D. **SESSION CHAIR:** Total Synthesis of Complex Molecules: (Oral session #30422) at the 237th ACS National Meeting, Salt Lake City, UT, March (2009)

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