

Dr. Eddie L. Myers

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Education

- Oct 2002–Sept 2006 Ph.D. • University of Bristol (2006) • Advisor: Prof. Varinder K. Aggarwal
Thesis title: Development of a Morita–Baylis–Hillman-type Reaction:
 Iminium Ions as Terminal Electrophiles
- Sept 2000–Aug 2002 M.Sc. • McGill University (2003) • Advisor: Prof. Youla S. Tsantrizos
Thesis title: Synthesis of Heterocyclic Aromatic Peptide Nucleic Acids
- Sept 1996–June 2000 B.A. Natural Science • Trinity College Dublin (2000) • 1st Class/Gold Medal
Thesis title: Synthetic efforts towards an Actinomycin–Peptide Nucleic Acid
 (PNA) conjugate • Advisor: Prof. Youla S. Tsantrizos

Career / Research

- Sept 2017–Present Lecturer in Organic Chemistry • School of Chemistry • NUI Galway
- Sept 2014–Aug 2017 Research Officer • Aggarwal Laboratory • University of Bristol
- Sept 2012–Sept 2014 Associate Editor • Chemistry—A European Journal • Wiley-VCH, Germany
- Feb 2012–Sept 2012 Assistant Editor • Angewandte Chemie • Wiley-VCH, Germany
- Dec 2009–Dec 2011 LMU Research Fellow • Ludwig Maximilian Universität, Munich, Germany
Laboratory of Prof. Dirk Trauner • Department of Chemistry
- Oct 2006–Nov 2009 Postdoctoral Associate • University of Wisconsin–Madison, Madison WI, USA
Laboratory of Prof. Ronald T. Raines • Department of Biochemistry

Awards

LMU Research Fellowship (2009–2011) • Alexander von Humboldt Fellowship (2009, declined in favor of LMU Fellowship) • Dean's Honor List, McGill University (2003) • T. Sterry Hunt Award for Excellence in Teaching, McGill University (2002 and 2001) • Alexander McFee Fellowship, McGill University (2001–2002) • Gold Medal, Trinity College (2000) • John Winthrop Hackett Moderatorship Prize (2000) Cocker Prize and Medal, Trinity College (2000) • Graduate Award, Institute of Chemistry of Ireland (2000) Dr. George A. Lonergan Prize, Trinity College (1999) • Elected Scholar of Trinity College (1998) D.C. Pepper Prize in Chemistry, Trinity College (1998) • Henley Memorial Prize, Trinity College (1997) Eli Lilly Chemistry Prize, Trinity College (1997)

Recent External Presentations

RSC South West Organic Division Meeting – University of Bath, UK – Feb 1 2017

Manuscripts/Publications/Patents

- (22) α -Sulfinyl Benzoates as Precursors to Li and Mg Carbenoids for the Stereoselective Iterative Homologation of Boronic Esters; G. Casoni, M. Kucukdisli, J. M. Fordham, M. Burns, E. L. Myers, V. K. Aggarwal, *J. Am. Chem. Soc.* **2017**, 139, 11877–11866.
- (21) Enantioselective Rhodium(III)-Catalyzed Markovnikov Hydroboration of Unactivated Terminal Alkenes; J. R. Smith, B. S. L. Collins, M. J. Hesse, M. A. Graham, E. L. Myers, V. K. Aggarwal, *J. Am. Chem. Soc.* **2017**, 139, 9148–9151.
- (20) Enantiospecific Synthesis of ortho-Substituted Benzylic Boronic Esters by a 1,2-Metalate Rearrangement/1,3-Borotropic Shift Sequence; S. Aichhorn, R. Bigler, E. L. Myers, V. K. Aggarwal, *J. Am. Chem. Soc.* **2017**, 139, 9519–9522
- (19) Synergy of synthesis, computation and NMR reveals correct baulamycin structures; J. Wu, P. Lorenzo, S. Zhong, M. Ali, C. P. Butts, E. L. Myers, V. K. Aggarwal, *Nature*, **2017**, 547, 436–440.
- (18) Photoinduced Decarboxylative Borylation of Carboxylic Acids; A. Fawcett, J. Pradeilles, Y. Wang, T. Mutsuga, E. L. Myers, V. K. Aggarwal, *Science*, **2017**, 357, 283–286.
- (17) Asymmetric Synthesis of Secondary and Tertiary Boronic Esters; B. S. L. Collins, C. M. Wilson, E. L. Myers, V. K. Aggarwal *Angew. Chem. Int. Ed.* **2017**, 56, 11700–11733.
- (16) Selective Uni- and Bidirectional Homologation of Diborylmethane; D. J. Blair, D. Tanini, J. M. Bateman, H. K. Scott, E. L. Myers, Varinder K. Aggarwal, *Chem. Sci.* **2017**, 8, 2898–2903.
- (15) Iterative Assembly-line Synthesis of Polypropionates with Full Stereocontrol; T. Bootwicha, J. M. Feilner, E. L. Myers, Varinder K. Aggarwal, *Nature Chem.* **2017**, 9, 896–902
- (14) Stereodivergent Olefination of Enantioenriched Boronic Esters; R. Armstrong, C. García-Ruiz, E. L. Myers, V. K. Aggarwal, *Angew. Chem. Int. Ed.* **2017**, 56, 804–808.
- (13) Regio- and Stereoselective Homologation of 1,2-Bis(Boronic Esters): Stereocontrolled Synthesis of 1,3-Diols and Sch 725674; A. Fawcett, D. Nitsch, M. Ali, J. Bateman, E. L. Myers, V. K. Aggarwal, *Angew. Chem. Int. Ed.* **2016**, 55, 4270–4274
- (12) Full chirality transfer in the synthesis of hindered tertiary boronic esters under in situ lithiation–borylation conditions; D. J. Blair, S. Zhong, M. J. Hesse, N. Zabaleta, E. L. Myers, V. K. Aggarwal, *Chem. Commun.* **2016**, 52, 5289–5292
- (11) Enantiospecific Alkynylation of Alkylboronic Esters; Y. Wang, A. Noble, E. L. Myers, V. K. Aggarwal, *Angew. Chem. Int. Ed.* **2016**, 55, 4270–4274
- (10) Synthesis of 3-Aryl-1-aminopropane Derivatives: Lithiation–Borylation–Ring-Opening of Azetidinium Ions; G. Casoni, E. L. Myers, V. K. Aggarwal, *Synthesis* **2016**, 48, 3241–3253

- (9) Total Synthesis of the Proposed Structure of Trichodermatide A; E. L. Myers, E. Herrero-Gómez I. Albrecht, J. Lachs, P. Mayer, M. Hanni, C. Ochsenfeld, D. Trauner, *J. Org. Chem.* **2014**, *79*, 9812–9817
- (8) Selected Diastereoselective Reactions: Electrocyclizations; E. L. Myers, D. Trauner, *Comprehensive Chirality* (Eds.: E. M. Carreira, H. Yamamoto, J. Mulzer), Vol. 2, Elsevier, Amsterdam, Oxford, Waltham, pp. 563–562
- (7) Preparation of Diazo and Diazonium Compounds; E. L. Myers, R. T. Raines, *US Patent 20130203974 A1*
- (6) A Phosphine Mediated Conversion of Azides to Diazo Compounds; E. L. Myers, R. T. Raines *Angew. Chem. Int. Ed.* **2009**, *48*, 2359–2363
- (5) Chalcogenides as Organocatalysts; E. M. McGarrigle, E. L. Myers, O. Illa, M. A. Shaw, S. L. Riches V. K. Aggarwal, *Chem. Rev.* **2007**, *107*, 5841–5883
- (4) A New Manifold for the Morita Reaction: Diene Synthesis from Simple Aldehydes and Acrylates/Acrylonitrile Mediated by Phosphines; A. Palmelund, E. L. Myers, L. R. Tai, S. Tisserand C. P. Butts, V. K. Aggarwal, *Chem. Commun.* **2007**, 4128–4130
- (3) Reactions of Iminium Ions with Michael Acceptors through a Morita–Baylis–Hillman-type reaction: Enantiocontrol and Applications in Synthesis; E. L. Myers, J. G. de Vries, V. K. Aggarwal *Angew. Chem. Int. Ed.* **2007**, *46*, 1893–1896
- (2) $\text{BF}_3 \cdot \text{OEt}_2$ and TMSOTf: A Synergistic Combination of Lewis Acids; E. L. Myers, C. P. Butts V. K. Aggarwal, *Chem. Commun.*, **2006**, 4434–4436
- (1) Synthesis of Novel Analogs of Aromatic Peptide Nucleic Acids (APNAs) with Modified Conformational and Electrostatic Properties; L. D. Fader, E. L. Myers, Y. S. Tsantrizos, *Tetrahedron* **2004**, *60*, 2235–2246