Jeffrey Aubé

Division of Chemical Biology and Medicinal Chemistry
Center for Integrative Chemical Biology and Drug Discovery
UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina 27599, USA

E-mail: jaube@unc.edu
ORCID: 0000-0003-1049-5767

Education

NIH Postdoctoral Fellow, Yale University, 1984-1986
Ph.D., Organic Chemistry, 1984; Duke University, Durham, North Carolina
B.S., Chemistry, magna cum laude, 1980; University of Miami, Coral Gables, Florida

Personal

Born on April 29, 1958 in Danbury, Connecticut, USA
Married to Janet Perkins

Experience

University of North Carolina, Eshelman School of Pharmacy
Eshelman Distinguished Professor, 2015 – present

University of Kansas, Department of Medicinal Chemistry
Adjunct Professor, 2015 – present
University Distinguished Professor, 2012 – 2015
Interim chair, 2003 – 2005
Professor, 1996 – 2012
Associate Professor, 1992 – 1996
Assistant Professor, 1986 – 1992

Member, Lineberger Cancer Center, University of North Carolina, 2015 – present

Leader, Drug Discovery, Development, and Experimental Therapeutics division, KU Cancer Center, 2012 – 2014. Full member, KU Masonic Cancer Center, 2008 – 2015

Director, Synthesis Core, KU Center for Cancer Experimental Therapeutics, 2009 – 2015

Director, KU Specialized Chemistry Center, 2008 – 2015

Director and co-PI, Atlantis Dual Degree Program, 2006 – 2011

Director, KU Chemical Methodologies and Library Design Center, 2003 – 2015

Center for Teaching Excellence, Interim Director, 2001 – 2002

Visiting Professor, University of Innsbruck, Innsbruck, Austria, 1997

Invited Professor, University of Rennes I, Rennes, France, 1993

Experience, continued

NIH Postdoctoral Fellow, 1984-1986, Yale University with Professor Samuel Danishefsky

Research Assistant, 1980-1983, Duke University. Research director: Professor Steven W. Baldwin. Dissertation title: "Asymmetric Synthesis with Chiral Hydroxylamines."

Undergraduate Research, 1979-1980, University of Miami, with Professor Robert E. Gawley

Scholarly Awards and Lectureships

Midwest Award, St. Louis Section of the American Chemical Society, 2012

ACS Fellow, American Chemical Society, selected 2012

Arthur C. Cope Scholar, American Chemical Society, 2012

Leading Light Award, University of Kansas, 2012

Sato International Award, Pharmaceutical Society of Japan, 2011

Abbott Lecturer, Massachusetts Institute of Technology, 2010

Nikolai N. Khaladjan International Award for Innovation in Higher Education, American Association of University Administrators, 2008

Fellow, American Association for the Advancement of Science, 2004

Olin Petefish Award for Research in the Basic Sciences, Higuchi/Endowment Research Achievement Award, University of Kansas, 2001

Fellow, Japanese Society for the Promotion of Science, 1996

Phi Beta Kappa, honorary member, 1996

American Cyanamid Faculty Award in Organic Chemistry, 1993

Alfred P. Sloan Research Fellow, 1993-1995

Eli Lilly Grantee, 1989-1991

Teaching Awards

Cited as an AACP Teacher of the Year, American Association of Colleges of Pharmacy, 2001.

Honored at the Fourth Annual Teacher Appreciation Banquet for Graduate Teaching, sponsored by the Center for Teaching Excellence, May 4, 2000

Cited as an AACP Teacher of the Year, American Association of Colleges of Pharmacy, 2000

Honored at the Third Annual Teacher Appreciation Banquet for Undergraduate Teaching, sponsored by the Center for Teaching Excellence, May 4, 2000.

W. T. Kemper Fellowship for Teaching Excellence, University of Kansas, 1997 (university-wide teaching award; 20 awarded annually)

Outstanding Graduate Mentor Award, Graduate and Professional Organization, University of Kansas, 1996

Teaching awards, continued

Honors for Outstanding Progressive Educator award (HOPE Award), University of Kansas, 1994 (university-wide teaching award; 1 awarded annually)
- HOPE Award Finalist, 1993
- HOPE Award Finalist, 1990

Rho Chi Award for Teaching Excellence, School of Pharmacy, University of Kansas, 1990, 1999

Scholarships and Fellowships

National Institutes of Health Postdoctoral Fellow, 1984-1986

American Cancer Society Postdoctoral Fellow (declined)

C.R. Hauser Fellow, Duke University, 1983-1984

James B. Duke Fellow, Duke University, 1980-1983

University Scholar, University of Miami, 1976-1980

Professional Service and Affiliations

American Association for the Advancement of Science
Secretary, Chemistry Section, 1995–2003

International Society of Heterocyclic Chemistry
President-elect, 2006; President, 2008–2009; Past President 2010–2012

Editorial positions
Guest Editor, Symposium-in-Print on Peptides and Peptidomimetics, *Tetrahedron,* **2000**, *56(50)*, pp 9725-9841
Managing Editor, *Chemtracts–Organic Chemistry*, 1987–2001
Associate Editor, *Beilstein Journal of Organic Chemistry*, 2009–present
Board of Editors, *Organic Reactions*, 2013–present

Editorial Advisory Boards
Current Topics in Medicinal Chemistry, 2001–present
Chemical Biology & Drug Design, 2006–present
ACS Medicinal Chemistry Letters, 2010–present
International Advisory Board, *European Journal of Organic Chemistry,* 2010–present
ACS Combinatorial Science, 2011–present
ACS Sustainable Chemistry & Engineering, 2013–present
Cancer Research, 2013–2016

Professional Service and Affiliations, continued

Scientific Consultant
- Oread Laboratories, 1988–1997
- Emisphere Technologies, Organic/Medicinal Chemistry Advisory Board, 1999–2001
- Newbiotics, 2001
- Ensemble Discovery, 2004–2006
- Amgen, 2005–2007
- Various Expert Witness Consultancies and Depositions, 2003–present

Chair, Gordon Research Conference on Heterocyclic Compounds, 1995; Vice-Chair, 1994

American Chemical Society
- Member; Divisions of Organic and Medicinal Chemistry
- Medicinal Chemistry Division Award Committee, 1995-1997
  - Chair, 1997
- Medicinal Chemistry Division, Academic Councilor, 2001-2004, 2004-2008
- Organic Chemistry Division, Alternate Councilor, 2014–2016, 2017–2019

Faculty co-advisor, Academy of Students of Pharmacy, 1996-2002

Initiative 2001 Task Force, University of Kansas, 1998-2000

Pew Roundtable member, University of Kansas, 1997

School of Pharmacy Accreditation Self-Study, co-chair, 2001

Review of General Assessment at University of Kansas (Process Committee), chair, 2000-2001

University of Kansas (selected promotion and search committees, out of >50)
- University Promotion and Tenure committee, 2002
- Chair, School of Pharmacy Dean Search Committee, 2003–2004
- Chair, Provost Search Committee, 2005–2006
- Member, Chancellor Search Committee, 2009

Scientific Reviewing Activities

National Institutes of Health, reviewer (ad hoc, except where noted)
- NCI site-visit team, 1994
- Study section, minority predoctoral fellowships, 1994
- Study section, small business initiative grants, 1994, 1998–2005
- Study section, minority bioscience research grants, 1995, 1998, 2001, 2004, 2006
- Study section, bioorganic and natural products, 1998
- Study section, medicinal chemistry A, 2002
- Special study section B, 2000
- Study section, SBCA, 2006
- Regular member, SBCA study section, 2007–2010
- Chair, SBCA study section, 2010–2012
- Study section (special emphasis panel), Technology Centers for Networks and Pathways, 2009
- Study section, pre- and postdoctoral fellowships, 2015
- Study section (special emphasis panel), MIRA awards, 2016

National Science Foundation
- Research grants, review panels, 2014, 2015
- Research grants, mail reviews, 2016

U.S. Army Breast Cancer Research Program
- Reviewer, 1998, 1999, 2000, 2001, 2006, 2007

U. S. Army Prostate Cancer Research Program
- Reviewer, 2000

American Heart Association
- Reviewer, 2001

American Cancer Society
- Ad hoc reviewer, 2003
- Study section member, 2004-2007

U.S. Civilian Research and Development Foundation
- Reviewer, 2003

National Cancer Institute, NExT Program
- External program review, panel member, 2015

SMARTT program, Research Triangle Institute
- Reviewer, 2016

Scientific Review Activities, continued

German Research Foundation
Reviewer, 2016

Research Council of Norway
Reviewer, 2016

Publications

Research publications

1. "Deprotonations, Conjugate Additions, and Enolate Trapping of Oxime Ethers and Dimethylhydrazones Using KDA. The Effect of Diisopropylamine on Enolate Trapping." R.E. Gawley, E.J. Termine, and J. Aubé, *Tetrahedron Letters*, **1980**, 3115–3119.

2. "Regiochemistry in the Intramolecular Cycloadditions of Substituted 5–Alkenyl and 6–Alkenyl Nitrones." S.W. Baldwin, J.D. Wilson, and J. Aubé, *Journal of Organic Chemistry*, **1985**, *50*, 4432–4439.

3. "Stereospecific Synthesis and Ring Closure of a Racemic Actinospectose Equivalent: A Concise Route to the Spectinomycin Series." Samuel Danishefsky, Jeffrey Aubé, and Mark Bednarski, *Journal of the American Chemical Society*, **1986**, *108*, 4145–4149.

4. "Asymmetric Synthesis With Chiral Hydroxylamines. Synthesis of Optically Pure 4–Substituted Azetidinones." S.W. Baldwin and J. Aubé, *Tetrahedron Letters*, **1987**, *28*, 179–182.

5. "Selectivity in an Asymmetric Nitrogen Insertion Process." Jeffrey Aubé, Paul M. Burgett, and Yuguang Wang, *Tetrahedron Letters*, **1988**, *29*, 151–154.

6. "An Enantioselective Synthesis of (–)-Alloyohimbane." Jeffrey Aubé, *Tetrahedron Letters*, **1988**, *29*, 4509–4512.

7. "Diastereotopic Group Selectivity in the Deprotonation of (η–Arene)$Cr(CO)_3$ Complexes." Joseph A. Heppert, M. Elizabeth Thomas–Miller, Michael L. Milligan, David Vander Velde, and Jeffrey Aubé, *Organometallics*, **1988,** *7*, 2581–2584.

8. "Unusual Spectroscopic and Conformational Properties of Some Spirocyclic Oxaziridines." Jeffrey Aubé and Yuguang Wang, *Tetrahedron Letters*, **1988**, *29*, 6407–6408.

9. "A Convenient Preparation of 2–[^{15}N]–Amino–4,6–dimethoxypyrimidine." Thomas K. Spencer, Gunda I. Georg, and Jeffrey Aubé, *Journal of Radiolabelled Compounds and Radiopharmaceuticals,* **1990**, *28*, 433–436.

10. "Diastereotopic Group Selective Reactions at π–Arene Chromium Derivatives: Deprotonation and Nucleophilic Addition Reactions of Substrates Bearing Benzylic Chiral Centers." Joseph A. Heppert, Jeffrey Aubé, M. Elizabeth Thomas–Miller, Michael L. Milligan, and Fusao Takusagawa, *Organometallics,* **1990**, *9*, 727–739.

11. "Synthetic Aspects of an Asymmetric Nitrogen Insertion Process: Preparation of Chiral, Non–Racemic Caprolactams and Valerolactams. Total Synthesis of (–)–Alloyohimbane." Jeffrey Aubé, Yuguang Wang, Marlys Hammond, Mehmet Tanol, Fusao Takusagawa, and David Vander Velde, *Journal of the American Chemical Society*, **1990**, *112*, 4879–4891.

12. "Directed Regiochemical Control in the Ring Expansion Reactions of a Substituted *trans*–Decalone." Jeffrey Aubé and Marlys Hammond, *Tetrahedron Letters,* **1990**, *31*, 2963–2966. Correction: *Ibid*. **1992**, *33*, 1246.

13. "Syntheses and Reactions of Spirocyclic Oxaziridines Derived from Unsymmetrical Ketones." Jeffrey Aubé, Marlys Hammond, Elyse Gherardini, and Fusao Takusagawa, *Journal of Organic Chemistry*, **1991**, *56*, 499–508. Correction**:** *J. Org. Chem*. **1991**, *56*, 4086.

Research Publications, continued

14. "Oxaziridine–Mediated Ring Expansions of Substituted Cyclobutanones: Synthesis of (–)–γ–Amino–β–(*R*)–hydroxybutyric Acid (GABOB)." Jeffrey Aubé, Yuguang Wang, Shomir Ghosh and Kendra L. Langhans, *Synthetic Communications,* **1991**, *21*, 693–701.

15. "Diastereoselectivity in the Intramolecular Cycloaddition Reactions of Nitrones Derived from 5–Alkenals and Chiral Hydroxylamines." S.W. Baldwin, R.B. McFadyen, J. Aubé and J.D. Wilson, *Tetrahedron Letters,* **1991**, *32*, 4431–4434.

16. "Studies Directed at the Synthesis of Optically Active Pretazettine via Intramolecular Nitrone/Alkene Cycloaddition Reactions." S.W. Baldwin, J. Aubé, and A.T. McPhail, *Journal of Organic Chemistry,* **1991**, *56*, 6546–6550.

17. "Intramolecular Schmidt Reaction of Alkyl Azides." Jeffrey Aubé and Gregory L. Milligan, *Journal of the American Chemical Society,* **1991**, *113*, 8965–8966.

18. "$TiCl_4$–Mediated Reactions of Alkyl Azides and Cyclic Ketones." Jeffrey Aubé, Gregory L. Milligan, and Craig J. Mossman, *Journal of Organic Chemistry,* **1992**, *57*, 1635–1637.

19. "Asymmetric Deprotonation and Complexation Reactions Mediated by Chiral Ketals as a Route to Substituted (η^6–Arene)$Cr(CO)_3$ Complexes." Jeffrey Aubé, Joseph A. Heppert, Michael L. Milligan, Mary Jane Smith, and Paul Zenk, *Journal of Organic Chemistry,* **1992**, *57*, 3563–3570.

20. "New Copper(I)–Catalyzed Reactions of Oxaziridines: Stereochemical Control of Product Distribution." Jeffrey Aubé, Xin Peng, Yuguang Wang, and Fusao Takusagawa, *Journal of the American Chemical Society*, **1992**, *114*, 5466–5467.

21. "A Divergent Route to Lactam–Based Dipeptidyl Building Blocks." Jeffrey Aubé and Michael S. Wolfe, *Bioorganic and Medicinal Chemistry Letters,* **1992**, *2*, 925–928.

22. "Synthesis of Enantiopure *N–tert*–Butoxycarbonyl–2–aminocycloalkanones." Jeffrey Aubé, Michael S. Wolfe, Rhonda K. Yantiss, Scott M. Cook, and Fusao Takusagawa, *Synthetic Communications,* **1992**, *22*, 3003–3012.

23. "(2*S*, 3*S*, 5*S*)– and (2*S*, 3*S*, 5*R*)–5–Carboxaldehyde–2,3–diphenyl–1,4–dioxane as Surrogates for Optically Pure 2,3–*O*–Isopropylideneglyceraldehyde in Asymmetric Synthesis." Jeffrey Aubé, Craig J. Mossman, and Susan Dickey, *Tetrahedron*, **1992**, *48*, 9819–9826.

24. "The Internal Quaternary Ammonium Receptor Site of *Shaker* Potassium Channels." Kathleen L. Choi, Craig Mossman, Jeffrey Aubé, and Gary Yellen, *Neuron*, **1993**, *10*, 533–541.

25. "Application of the Intramolecular Schmidt Reaction to the Asymmetric Synthesis of (–)–Indolizidine 209B from Pulegone." Jeffrey Aubé, Pat S. Rafferty, and Gregory L. Milligan, *Heterocycles,* **1993**, *35*, 1141–1147.

26. "The First Synthesis of a C–9 Carbonyl Modified Baccatin III Derivative and Its Conversion to Novel Taxol® and Taxotere® Analogues." Apurba Datta, Jeffrey Aubé, Gunda I. Georg, Lester A. Mitscher, and Lalith R. Jayasinghe, *Bioorganic and Medicinal Chemistry Letters,* **1994**, *4*, 1831–1834.

Research Publications, continued

27. "Symmetry–Driven Synthesis of Indole Alkaloids: Asymmetric Total Syntheses of (+)–Yohimbine, (–)–Yohimbone, (–)–Yohimbane, and (+)–Alloyohimbane." Jeffrey Aubé, Shomir Ghosh, and Mehmet Tanol, *Journal of the American Chemical Society,* **1994**, *116*, 9009–9018.

28. "Synthesis of *cis*–δ–Phenylmethyl–D–Proline Using a Nitrogen–Centered Radical Derived From a Chiral Oxaziridine." Jeffrey Aubé, Belgin Gülgeze, and Xin Peng, *Bioorganic and Medicinal Letters,* **1994**, *4*, 2461–2464.

29. "Synthesis of 13–*epi*–Taxol via a Transannular Delivery of a Borohydride Reagent." Michael Z. Hoemann, David Vander Velde, Jeffrey Aubé, Gunda I. Georg, and Lalith R. Jayasinghe, *Journal of Organic Chemistry*, **1995**, *60*, 2918–2921.

30. "Structural Analysis of β–Turn Mimics Containing a Substituted 6–Aminocaproic Acid Linker." Osamu Kitagawa, David Vander Velde, Dinah Dutta, Martha Morton, Fusao Takusagawa, and Jeffrey Aubé, *Journal of the American Chemical Society,* **1995**, *117*, 5169–5178.

31. "An Efficient Nitrogen Ring–Expansion Process Facilitated by in situ Tethering of an Alkyl Azide to Ketones. An Asymmetric Schmidt Reaction." Vijaya Gracias, Gregory L. Milligan, and Jeffrey Aubé, *Journal of the American Chemical Society*, **1995**, *117*, 8047–8048.

32. "Novel Cytotoxic 3'–(*tert*–Butyl)–3'–dephenyl Analogs of Paclitaxel and Docetaxel." Syed M. Ali, Michael Z. Hoemann, Jeffrey Aubé, Lester A. Mitscher, Gunda I. Georg, Randy McCall, and Lalith R. Jayasinghe, *Journal of Medicinal Chemistry*, **1995**, *38*, 3821–3828.

33. "Intramolecular Schmidt Reactions of Alkyl Azides with Ketones: Scope and Stereochemical Studies." Gregory L. Milligan, Craig J. Mossman, and Jeffrey Aubé, *Journal of the American Chemical Society*, **1995**, *117*, 10449–10459.

34. "Conformational Analysis and Structural Elucidation of Spirocyclic Oxaziridines Using NMR, Crystallography, and Molecular Modeling." Yoshinosuke Usuki, Yuguang Wang, and Jeffrey Aubé, *Journal of Organic Chemistry*, **1995**, *60*, 8028–8035.

35. "Synthesis of Functionalized N–Alkyl Heterocycles from Ketones by a Sequential Ring Expansion/Nucleophilic Addition Sequence." Vijaya Gracias, Gregory L. Milligan, and Jeffrey Aubé, *Journal of Organic Chemistry*, **1996**, *61*, 10–11.

36. "Total Synthesis of Curacin A." Michael Z. Hoemann, Konstantinos A. Agrios, and Jeffrey Aubé, *Tetrahedron Letters*, **1996**, *37*, 953–956.

37. "Toward the Synthesis of Sparteine: Intramolecular Schmidt Reactions on a Norbornanone Platform." John A. Wendt and Jeffrey Aubé, *Tetrahedron Letters*, **1996**, *37*, 1531–1534.

38. "Intramolecular Schmidt Reactions of Alkyl Azides with Ketals and Enol Ethers." Craig J. Mossman and Jeffrey Aubé, *Tetrahedron*, **1996**, *52*, 3403–3408.

39. "One–Step Conversion of Aldehydes to Oxazolines and 5,6–Dihydro–4*H*–[1,3]–oxazines Using 1,2– and 1,3–Azido Alcohols." Jennifer G. Badiang and Jeffrey Aubé, *Journal of Organic Chemistry*, **1996**, *61*, 2484–2487.

Research Publications, continued

40. "Butitaxel Analogues: Synthesis and Structure–Activity Relationships." Syed M. Ali, Michael Z. Hoemann, Jeffrey Aubé, Gunda I. Georg, Lester A. Mitscher, and Lalith R. Jayasinghe, *Journal of Medicinal Chemistry*, **1997**, *40*, 236–241.

41. "Stereoselective Synthesis of Freidinger Lactams Using Oxaziridines Derived from Amino Acids." Michael S. Wolfe, Dinah Dutta, and Jeffrey Aubé, *Journal of Organic Chemistry*, **1997**, *62*, 654–663.

42. "Total Synthesis of (+)–Curacin A, a Marine Cytotoxic Agent." Michael Z. Hoemann, Konstantinos A. Agrios, and Jeffrey Aubé, *Tetrahedron*, **1997**, *53*, 11087–11098. (Special Issue in Honor of Professor Samuel Danishefsky.)

43. "Effect of Stereochemistry on the Transport of Aca–Linked β–Turn Peptidomimetics Across a Human Intestinal Cell Line." Kiyoshi Tamura, Konstantinos A. Agrios, David Vander Velde, Jeffrey Aubé, and Ronald T. Borchardt, *Bioorganic and Medicinal Chemistry*, **1997**, *5*, 1859–1866.

44. "Ring Expansion by in situ Tethering of Hydroxy Azides to Ketones: The Boyer Reaction." Vijaya Gracias, Kristine E. Frank, Gregory L. Milligan, and Jeffrey Aubé, *Tetrahedron*, **1997**, *53*, 16241–16252. (Symposium–in–Print on New Synthetic Methods V)

45. "Syntheses and Evaluation of Peptidyl Michael Acceptors That Inactivate Human Rhinovirus 3C Protease and Inhibit Virus Replication." Jian–she Kong, Shankar Venkatraman, Kelly Furness, Sanjay Nimkar, Timothy A. Shepard, Q. May Wang, Jeffrey Aubé, and Robert P. Hanzlik, *Journal of Medicinal Chemistry*, **1998**, *41*, 2579–2587.

46. "Lewis Acid–mediated Cyclizations of (2'-Amino-*N*'-*tert*-butoxycarbonylbenzylidene)-3-alkenylamines." Kristine E. Frank and Jeffrey Aubé, *Tetrahedron Letters*, **1998**, *39*, 7239–7242.

47. "Mannich Reactions Using Benzyl Azide as a Latent *N*-(Phenylamino)methylating Agent." Klaas Schildknegt, Konstantinos A. Agrios, and Jeffrey Aubé, *Tetrahedron Letters,* **1998**, *39*, 7687–7690.

48. "Reactions of Oxazolinium and Dihydrooxazinium Salts Prepared by an Azide Insertion Sequence: pH Control of Product Distribution." Jennifer E. Forsee, Brent T. Smith, Kristine E. Frank, and Jeffrey Aubé, *Synlett*, **1998**, 1258–1260.

49. "Design, Synthesis and Evaluation of Azapeptides as Substrates and Inhibitors for Human Rhinovirus 3C Protease." Shankar Venkatraman, Jian-she Kong, Sanjay Nimkar, Q. May Wang, Jeffrey Aubé, and Robert P. Hanzlik, *Bioorganic and Medicinal Chemistry Letters*, **1999**, 9, 577–580.

50. "Efficient Route To Azamacrolides From 1,2– or 1,3– Azido Alcohols and Macrocyclic Ketones." Jennifer E. Forsee and Jeffrey Aubé, *Journal of Organic Chemistry*, **1999**, 64, 4381–4385.

51. "1,7–Asymmetric Induction in a Nitrogen Ring Expansion Process Facilitated by in situ Tethering." Kelly Furness and Jeffrey Aubé, *Organic Letters*, **1999**, *1*, 495–497.

52. "Cyclizations of Substituted Benzylidene–3–alkenylamines: Synthesis of the Tricyclic Core of the Martinellines." Kristine E. Frank and Jeffrey Aubé, *Journal of Organic Chemistry*, **2000**, *65*, 655–666.

Research Publications, continued

53. "Regiocontrol in an Intramolecular Schmidt Reaction: Total Synthesis of (+)–Aspidospermidine." Rajesh Iyengar, Klaas Schildknegt, and Jeffrey Aubé, *Organic Letters*, **2000**, *2*, 1625–1627.

54. "Synthesis and Conformation of Gly–Gly Dipeptides Constrained with Phenylalanine–Like Aminocaproic Acid Linkers." Mary MacDonald, David Vander Velde, and Jeffrey Aubé, *Organic Letters*, **2000**, *2*, 1653–1655.

55. "Regiochemistry of the Ring–Expansion Reactions of Hydroxy Azides with Cyclic Ketones." Brenton T. Smith, Vijaya Gracias, and Jeffrey Aubé, *Journal of Organic Chemistry*, **2000**, *65*, 3771–3774.

56. "Reactivity Toward Deamidation of Asparagine Residues in β–Turn Structures." Xie, M.; Aubé, J.; Borchardt, R. T.; Morton, M.; Topp, E. M.; Vander Velde, D.; Schowen, R. L., *Journal of Peptide Research*, **2000**, *56*, 165–171.

57. "Synthesis of α–Amino–α'–diazomethyl Ketones Via Ring Opening of Substituted Cyclopropanones with Alkyl Azides. A Facile Route to N–Substituted 3–Azetidinones." Pankaj Desai and Jeffrey Aubé, *Organic Letters*, **2000**, *2*, 1657–1659.

58. "Reactions of Alkyl Azides and Ketones as Mediated by Lewis Acids: Schmidt and Mannich Reactions Using Azide Precursors." Pankaj Desai, Klaas Schildknegt, Konstantinos A. Agrios, Craig Mossman, Gregory L. Milligan, and Jeffrey Aubé, *Journal of the American Chemical Society*, **2000**, *122*, 7226–7232.

59. "Stereochemistry of the Oxidation of Imines Derived from Substituted Cyclohexanones: Axial vs. Equatorial Attack and Evidence for Delivery by an Adjacent Hydroxyl Group." Yuguang Wang, Samuel Chackalamannil, and Jeffrey Aubé, *Journal of Organic Chemistry*, **2000**, *65*, 5120–5126.

60. "A Functional Assay for Quantitation of the Apparent Affinities of Ligands of P–Glycoprotein in Caco–2 Cells." Jinnian Gao, Osamu Murase, Richard L. Schowen, Jeffrey Aubé, and Ronald Borchardt, *Pharmaceutical Research*, **2001,** *18*, 171–177.

61. "Transport Characteristics of Peptides and Peptidomimetics: I. *N*–Methylated Peptides as Substrates for the Oligopeptide Transporter and P–Glycoprotein in the Intestinal Mucosa." Jinnian Gao, Masao Sudoh, Jeffrey Aubé, and Ronald T. Borchardt, *Journal of Peptide Research*, **2001**, *57*, 316–329.

62. "Transport Characteristics of Peptides and Peptidomimetics: II. Hydroxyethylamine Bioisostere–Containing Peptidomimetics as Substrates for the Oligopeptide Transporter and P–Glycoprotein in the Intestinal Mucosa." Jinnian Gao, Stephanie L. Winslow, David Vander Velde, Jeffrey Aubé, and Ronald T. Borchardt, *Journal of Peptide Research*, **2001**, *57*, 361–373.

63. "Intramolecular Reactions of Benzylic Azides with Ketones: Competition Between Schmidt and Mannich Pathways." Aaron Wrobleski and Jeffrey Aubé, *Journal of Organic Chemistry*, **2001**, *66*, 886–889.

64. "Effect of Progressive Benzyl Substitution on the Conformations of Aminocaproic Acid–Cyclized Dipeptides." Mary MacDonald, David Vander Velde, and Jeffrey Aubé, *Journal of Organic Chemistry*, **2001**, *66*, 2636–2642.

Research Publications, continued

65. "First Asymmetric Total Synthesis of (+)–Sparteine." Brenton T. Smith, John A. Wendt, and Jeffrey Aubé, *Organic Letters*, **2002**, *4*, 2577–2579.

66. "Asymmetric Total Synthesis of Dendrobatid Alkaloid 251F." Aaron Wrobleski, Kiran Sahasrabudhe, and Jeffrey Aubé, *Journal of the American Chemical Society*, **2002**, *124*, 9974–9975.

67. "A Combined Intramolecular Diels–Alder/Intramolecular Schmidt Reaction Process: A Formal Synthesis of (±)–Stenine." Jennifer E. Golden and Jeffrey Aubé, *Angewandte Chemie, International Edition*, **2002**, *41*, 4316–4318.

68. "Asymmetric Schmidt Reaction of Hydroxyalkyl Azides with Ketones." Kiran Sahasrabudhe, Vijaya Gracias, Kelly Furness, Brenton T. Smith, Christopher E. Katz, D. Srinivasa Reddy, and Jeffrey Aubé, *Journal of the American Chemical Society*, **2003**, *125*, 7914–7922.

69. "Rearrangements of Bicyclic Nitrones to Lactams: Comparison of Photochemical and Modified Barton Conditions." Yibin Zeng, Brenton T. Smith, John Hershberger, and Jeffrey Aubé, *Journal of Organic Chemistry*, **2003**, *68*, 8065–8067.

70. "Lewis Acid–Mediated Reactions of Alkyl Azides with α,β–Unsaturated Ketones." D. Srinivasa Reddy, Weston R. Judd, and Jeffrey Aubé, *Organic Letters*, **2003**, *5*, 3899–3902.

71. "Unusual Tethering Effects in the Schmidt Reaction of Hydroxyalkyl Azides with Ketones: Cation–π and Steric Stabilization of a Pseudoaxial Phenyl Group." Christopher E. Katz and Jeffrey Aubé, *Journal of the American Chemical Society*, **2003**, *125*, 13948–13949.

72. "Ring Expansive Routes to Quinolizidine Alkaloids: Formal Synthesis of (–)-Lasubine II." Vijaya Gracias, Yibin Zeng, Pankaj Desai, and Jeffrey Aubé, *Organic Letters*, **2003**, *5*, 4999-5001.

73. "Synthesis and Conformational Studies of Dipeptides Constrained by Disubstituted 3-(Aminoethoxy)Propionic Acid Linkers."D. Srinivasa Reddy, David Vander Velde, and Jeffrey Aubé, *Journal of Organic Chemistry*, **2004**, *69*, 1716-1719.

74. "Base-Promoted Reactions of Bridged Ketones and 1,3- and 1,4-Haloalkyl Azides: Competitive Alkylation vs. Azidation Reactions of Ketone Enolates." Lei Yao, Brenton T. Smith, and Jeffrey Aubé, *Journal of Organic Chemistry*, **2004**, *69*, 1720-1722.

75. "An *Ab Initio* Approach to Understanding the Stereoselectivity of Reactions between Hydroxyalkyl Azides and Ketones." N. Deborah Hewlett, Jeffrey Aubé, and Jennifer L. Radkiewicz-Poutsma, *Journal of Organic Chemistry*, **2004,** 69, 3439-3446.

76. "Asymmetric Total Synthesis of Dendrobatid Alkaloids: Preparation of Indolizidine 251F and Its 3-Desmethyl Analogue Using an Intramolecular Schmidt Reaction Strategy." Aaron Wrobleski, Kiran Sahasrabudhe, and Jeffrey Aubé, *Journal of the American Chemical Society*, **2004**, *126*, 5475-5481.

77. "Domino Reactions That Combine an Azido-Schmidt Ring Expansion with the Diels–Alder Reaction." Yibin Zeng, D. Srinivasa Reddy, Erin Hirt, and Jeffrey Aubé, *Organic Letters*, **2004**, *6*, 4993–4995.

Research Publications, continued

78. "Modular Synthesis of Cyclic Peptidomimetics Inspired by γ-Turns." Senthil Kumar Ramanathan, John Keeler, Huey-Lih Lee, D. Srinavasa Reddy, Gerald Lushington, and Jeffrey Aubé, *Organic Letters*, **2005**, *7*, 1059-1062.

79. "Facile C–N Cleavage in a Series of Bridged Lactams." Yao Lei, Aaron D. Wrobleski, Jennifer E. Golden, Douglas R. Powell, and Jeffrey Aubé, *Journal of the American Chemical Society*, **2005**, *127*, 4552-4553.

80. "Synthesis of a Small Library of Diketopiperazines as Potential Inhibitors of Calpain." Yibin Zeng, Qingshan Li, Robert P. Hanzlik, and Jeffrey Aubé, *Bioorganic and Medicinal Chemistry Letters*, **2005**, *15*, 3034–3038.

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