

**Curriculum Vitae**  
**Timothy P. Curran, Ph.D.**

**Address:**

Department of Chemistry  
Trinity College  
Hartford, CT 06106  
Telephone: 860-297-5276  
Email: timothy.curran@trincoll.edu

**Education:**

College of the Holy Cross, Worcester, Massachusetts  
A.B. in Chemistry, in the Honors Program, *Magna Cum Laude* - 1983

Massachusetts Institute of Technology, Cambridge, Massachusetts  
Ph.D. in Organic Chemistry - 1988  
Thesis Advisor: Professor Daniel S. Kemp  
Thesis Title: Models for Nucleation of  $\alpha$ -Helices

**Professional Experience:**

Harvard Medical School  
Postdoctoral Research Fellow - Molecular Biology and Enzymology [1988-1989]  
Research Mentors: Professors Bert L. Vallee and James F. Riordan

Alkermes, Inc.  
Research Scientist - Bioorganic Chemistry [1989-1991]  
Consultant - Bioorganic Chemistry [1991-1994]

College of the Holy Cross  
Assistant Professor of Chemistry [1991-1997]  
Associate Professor of Chemistry [1997-2000]

Trinity College  
Associate Professor of Chemistry [2000-2006]  
Professor of Chemistry [2006-present]  
Chair, Department of Chemistry [2006-present]

**Teaching Experience:**

Trinity College [2000-present]

Courses Taught:

Introductory Chemistry II (CHEM-112): [Spring 2002]  
Elementary Organic Chemistry I (CHEM-211L): [Fall 2000, 2001, 2002, 2003, 2004, 2005]  
Elementary Organic Chemistry II (CHEM-212L): [Spring 2001, 2002, 2003, 2005, 2006]  
Advanced Organic Chemistry (CHEM-403): [Spring 2002]  
Biological Chemistry (CHEM-404): [Spring 2001, Fall 2004, Fall 2005]  
Science Research Apprenticeship (ISP-118)  
Students: Neena Chakrabarti '09 [Spring 2006]  
Research in Chemistry-Laboratory (CHEM-425):  
Students: Alexander Scopton '02 [Fall 2000, Spring 2001, Fall 2001, Spring 2002]  
Arlicia Grant '02 [Spring 2001, Spring 2002]  
Julie MacPhee '03 [Fall 2001]  
Rebecca Lucht IDP [Spring 2002]

Heather Cooke '03 [Fall 2002, Spring 2003]  
Mark Silva '05 [Fall 2003, Spring 2004, Fall 2004, Spring 2005]  
Brian Volk '05 [Fall 2003, Spring 2004]  
Richard Yoon '05 [Fall 2003, Spring 2004, Fall 2004, Spring 2005]  
Craig Yennie '06 [Spring 2005, Fall 2005, Spring 2006]  
Adam Lesser '06 [Spring 2005, Fall 2005, Spring 2006]  
David Webster '06 [Fall 2005, Spring 2006]  
Whitney Smith '07 [Fall 2005, Spring 2006]  
Jessica Leandre '07 [Fall 2005]  
Andrew Rosenau '07 [Fall 2005, Spring 2006]  
Jonathan Weiss '07 [Spring 2006]  
Sarah Pitts '07 [Spring 2006]

Senior Thesis (CHEM-499):

Students: Alexander Scopton '02 [2001-02]  
Heather Cooke '03 [2002-03]  
Mark Silva '05 [2004-05]  
Richard Yoon '05 [2004-05]  
Adam Lesser [2005-06]

College of the Holy Cross [1991-2000]

Courses Taught:

Atoms and Molecules (CHEM-001): [Fall 1991, 1993]  
Organic Chemistry I (CHEM-021): [Spring 1992, 1993, 1995, 1996, 2000]  
Organic Chemistry II (CHEM-022): [Fall 1992, 1994, 1995, 1996, 1999]  
Introduction to Equilibrium and Reactivity (CHEM-031): [Spring 1997]  
Bioorganic Chemistry (CHEM-110): [Spring 1992, Fall 1993, Spring 1995, Fall 1996, Fall 1999]  
Biochemistry II Laboratory (BIOL-104): [Spring 1996, 1997, 1999, 2000 - Team Taught with  
Professor Mary E. Morton]  
Reactions (FYPR-007): [Fall 1998]  
Synthesis (FYPR-017): [Spring 1999]  
Undergraduate Investigation in Chemistry (CHEM-106)  
General Honors Research (CHEM-108)  
College Honors Thesis (CISS-291, CISS-292)  
Fenwick Scholar Project (CISS-312)

Honors Theses Supervised [for graduates, advanced degrees and present position given in brackets]:

Fenwick Scholar Thesis:

Jason F. Hall '96 [MD - Harvard Medical School; Physician]

College Honors Program Thesis:

Michael C. Hewitt '97 [PhD in Organic Chemistry - MIT; Research Scientist - Sepracor, Inc.]  
Meredith A. Brown '00 [Research Assistant - Vertex Pharmaceuticals]

Department of Chemistry Honors Theses (CHEM-108):

Michael B. Smith '93 [M.S. in Organic Chemistry - University of Chicago]  
Patrick M. McEnaney '94 [M.D. - University of Massachusetts; Surgeon]  
Campbell G. Rowe '94 [Consultant - Associates for International Research]  
Nicole M. Chandler '95 [M.D. - University of Massachusetts; Physician]  
Michael P. Pollastri '95 [PhD in Organic Chemistry-Brown; Research Scientist - Pfizer, Inc.]  
Meghan T. Keaney '96 [MPH - Boston University]  
Robert J. Kennedy '96 [PhD in Organic Chemistry - MIT; Postdoctoral Fellow - MIT]  
Joseph D. Hewitt '97 [PhD in Analytical Chemistry - Duke University; Sales - Varian Instruments]  
Amanda R. Ottoson '98 [Nursing School Student]

Biochemistry Concentration/Department of Chemistry Honors Thesis (CHEM-108):

Lisa A. Marcaurelle '97 [PhD in Organic Chemistry - University of California-Berkeley; Research  
Scientist - Infinity Pharmaceuticals]  
Anne R. Smith '99 [Medical School Student - Georgetown University]

Jesse Affonso '00 [Medical Student - University of Massachusetts]

Department of Chemistry Research Theses (CHEM-106):

Karen M. Guzzetta '92 [M.D. - Vanderbilt University; Physician]

Theresa A. McCollum '92 [MBA - University of North Carolina; Marketing Manager - Cambridge Scientific Computing]

Minh Tran '92 [D.O. - University of Southern Maine; Osteopath]

Moftah El-Ghadi '94 [D.M.D. - University of Pennsylvania; Dentist]

Gregory W. Hewitt '94 [Ph.D. in Organic Chemistry - SUNY/Stony Brook; Research Scientist - Beta Chemicals]

Kathleen M. O'Sullivan '96 [J.D. - University of Pennsylvania; Attorney]

Michael D. Loconzolo '97 [Programmer - Cambridge Scientific Computing]

Marie H. Tanzer '00 [Jesuit Volunteer Corps]

Emily E. Cavanagh '01 [Research Assistant - Genzyme, Inc.]

Robert J. Moreau '02 [Graduate Student in Organic Chemistry-University of Pennsylvania]

Biochemistry Concentration/Department of Chemistry Research Theses (CHEM-106):

Kerry P. Mahon '98 [Graduate Student in Chemistry - Boston College]

Audra M. Dalton '99 [MS in Organic Chemistry-MIT; ArQule, Inc.]

Terra B. Potocky '99 [Graduate Student in Chemistry - University of Wisconsin-Madison]

Bradley C. Carofino '00 [Medical Student - University of Connecticut]

Segufta I. Bilimoria '01 [Research Assistant - Pfizer, Inc.]

**Summer Undergraduate Student Researchers Supervised:**

College of the Holy Cross:

1992: Patrick M. McEnaney '94, Campbell G. Rowe '94 and Michael P. Pollastri '95

1993: Patrick M. McEnaney '94, Campbell G. Rowe '94, Nicole M. Chandler '95 and Michael P. Pollastri '95

1994: Nicole M. Chandler '95, Michael P. Pollastri '95, Jason F. Hall '96, Meghan T. Keaney '96 and Robert J. Kennedy III '96

1995: Jason F. Hall '96, Meghan T. Keaney '96, Robert J. Kennedy III '96, Kathleen M. O'Sullivan '96, Joseph D. Hewitt '97 and Michael C. Hewitt '97

1996: Joseph D. Hewitt '97, Michael C. Hewitt '97, Lisa A. Marcaurette '97 and Amanda R. Ottoson '98

1997: Kerry P. Mahon '98, Amanda R. Ottoson '98, Lynn C. Usher '98 and Anne R. Smith '99

1998: Anne R. Smith '99, Joi C. Carter '99, Terra B. Potocky '99 and Jesse Affonso '00

1999: Jesse Affonso '00, Patrick J. Barrett '00, Meredith A. Brown '00 and Emily E. Cavanagh '01

2000: Jaimie Bertino '01, Segufta I. Bilimoria '01, Emily E. Cavanagh '01, Rusmir Music '01, and Robert J. Moreau '02

Trinity College:

2001: Arlicia L. Grant '02, Kevin A. Marques '03, Rebecca A. Lucht IDP

2002: Heather C. Cooke '02, Kevin A. Marques '03, Rebecca A. Lucht IDP

2003: Mark Silva '05, Morghan Warner '05, Richard Yoon '05

2004: Mark Silva '05, Craig Yennie '06, Richard Yoon '05, Lilia Zhahalyak IDP

2005: Craig Yennie '06, Adam Lesser '06, David Webster '06, Jessica Leandre '07, Whitney Smith '07

2006: Jessica Leandre '07, Whitney Smith '07, Andrew Rosenau '07, Sarah Pitts '07, Jonathan Weiss '07, Emma Handy '08, Neena Chakrabarti '09, Peter Hendrickson '09

**Professional Memberships:**

American Chemical Society

American Peptides Society

Council on Undergraduate Research

Project Kaleidoscope-Faculty for the 21st Century

## Grants:

American Heart Association, Massachusetts Affiliate - Research Fellowship, "Metal Role in Angiotensin Converting Enzyme", \$16,000, 4-1-88 to 3-31-89.

NIH-National Research Service Award, "Metal Function in Angiotensin Converting Enzyme", \$16,000, 7-11-88 to 7-10-89.

NIH-AREA, "Towards Rationally Designed Immunosuppressants", \$110,847, 5-1-92 to 4-30-96.

ACS-PRF - Type G Starter Grant, "Development of a Robust Prolyl-Proline Dipeptide  $\alpha$ -Helix Template", \$18,000, 9-1-92 to 8-31-96.

Research Corporation - Cottrell College Science Award, "Modelling  $\beta$ -Sheet Formation Using an Alkynyl Bis-Amino Acid", \$27,500, 1-1-95 to 12-31-98.

NSF-RUI, "Neighboring Group Effects in Intramolecular Reactions", \$124,000, 2-1-95 to 1-31-98

Pfizer, Inc. - Undergraduate Summer Research Fellowship [Holy Cross student Michael P. Pollastri], \$5,000, 2-18-94 to 12-31-94.

New England Consortium for Undergraduate Science Education, Student Travel Award - Attracting and Maintaining Women and Minorities in Science Programs [Holy Cross student Nicole M. Chandler], \$1,025, 1-20-94 to 12-31-94.

NIH-AREA, "Binding to and Inhibition of CD26 by Cis-Prolines", \$110,847, 5-1-97 to 10-31-01.

Pfizer, Inc. - Undergraduate Summer Research Fellowship [Holy Cross student Anne R. Smith], \$5,000, 4-30-98 to 12-31-98.

Henry Dreyfus Teacher-Scholar Award: "Creating Peptide Tertiary Structures by Linking Enforced Peptide Secondary Structures", \$60,000, 11-1-98 to 10-31-03.

NSF-RUI, "Nucleating Peptide Secondary Structures via Metal-Alkyne Coordination", \$146,000, 6-1-04 to 5-31-06.

Bristol-Myers Squibb, Undergraduate Research Awards in Organic Chemistry, "Use of Ferrocene to Nucleate  $\beta$ -Turns", \$5,000, 6-1-04 to 5-31-05.

Pfizer-CBIA, Undergraduate Summer Research Fellowship [Trinity student Adam B. Lesser], \$5,000, 4-1-05 to 3-31-06.

Bristol-Myers Squibb, Undergraduate Research Awards in Organic Chemistry, "Synthesis of a Tricyclicdipeptide-A Potential  $\alpha$ -Helix Template", \$5,000, 6-1-06 to 5-31-07.

Pfizer-CBIA, Undergraduate Summer Research Fellowship [Trinity student Emma Handy], \$5,000, 6-1-06 to 5-31-07.

## Publications:

### Publications From Independent Academic Research (Undergraduate Student Co-authors are in Bold):

"Bis(Amino Acid) Derivatives of 1,4-Diamino-2-butyne that Adopt a  $C_2$ -Symmetric Turn Conformation", T. P. Curran, **K. A. Marques** and **M. V. Silva**, *Org. Biomol. Chem.*, **3**, 4134 (2005).

"A Simple, High Yield Route to *cis*-4-(N-Alkylamino)-L-Prolines", T. P. Curran, **K. A. Marques** and **S. I. Bilimoria**, *Lett. Org. Chem.*, **2**, 15 (2005).

"N-Terminus to C-Terminus Metallacyclicpeptides Employing Tungsten-Alkyne Coordination", T. P. Curran, **R. S. H. Yoon** and **B. R. Volk**, *J. Organometallic Chem.*, **689**, 4837 (2004).

" $\pi$ -Ligands for Generating Transition Metal-Peptide Complexes: Coordination of Amino Acid Derivatives to Tungsten Utilizing Alkyne Ligands", T. P. Curran, **A. L. Grant**, **R. L. Lucht**, **J. C. Carter** and **J. Affonso**, *Org. Lett.*, **4**, 2917 (2002).

"A Short Synthesis of Bicyclic Dipeptides Corresponding to Xxx-L-Pro and Xxx-D-Pro Having Constrained *Trans*-Proline Amides", T.P. Curran, **Lisa A. Marcaurrelle** and **K.M. O'Sullivan**, *Org. Lett.*, **1**, 1225 (1999).

"A Novel Pyrrole Synthesis: One-Pot Preparation of Ethyl 5-Methylpyrrole-2-carboxylate", T.P. Curran and **M.T. Keane**, *J. Org. Chem.*, **61**, 9068 (1996).

"Ordered Conformations in Bis(Amino Acid) Derivatives of 1,1'-Ferrocenedicarboxylic Acid", R.S. Herrick, R.J. Jarret, T.P. Curran, **D.R. Dragoli**, **M.B. Flaherty**, **S.E. Lindyberg**, **R.A. Slate** and **L.C. Thornton**, *Tetrahedron Lett.*, **37**, 5289 (1996).

"N- $\alpha$ -Benzoyl-*Cis*-4-Amino-L-Proline: A  $\gamma$ -Turn Mimetic", T.P. Curran, **N.M. Chandler**, **R.J. Kennedy** and **M.T. Keane**, *Tetrahedron Lett.*, **37**, 1933 (1996).

"A Short Synthesis of Bicyclic Dipeptides Corresponding to Xxx-L-Pro and Xxx-D-Pro Having Constrained *Cis*-Proline Amides", T.P. Curran and **P.M. McEnaney**, *Tetrahedron Lett.*, **36**, 191 (1995).

"Loss of the *tert*-Butyloxycarbonyl (Boc) Protecting Group Under Basic Conditions", T.P. Curran, **M.P. Pollastri**, S.M. Abelleira, R.J. Messier, **T.A. McCollum** and **C.G. Rowe**, *Tetrahedron Lett.*, **35**, 5409 (1994).

"*Cis*-3,5-Dimethyl-3,5-Piperidinedicarboxylic Acid, An Amino Diacid Variant of Kemp's Triacid", T.P. Curran, **M.B. Smith**, and **M.P. Pollastri**, *Tetrahedron Lett.*, **35**, 4515 (1994).

#### **Publications from Independent Research at Alkermes, Inc.:**

"Intramolecular Acylolysis of Amide Derivatives of Kemp's Triacid: Strain Effects and Reaction Rates", T.P. Curran, C.W. Borysenko, S.M. Abelleira and R.J. Messier, *J. Org. Chem.*, **59**, 3522 (1994).

"Diastereomer-Free Incorporation of Reduced Amide (-CH<sub>2</sub>NH-) Pseudodipeptides in Solid Phase Peptide Synthesis", T.P. Curran, S.M. Abelleira, R.J. Messier and G.F. Musso, in *Proceedings of the 12th American Peptide Symposium* (eds. J.A. Smith and J.E. Rivier), p. 573-575 (1992).

#### **Publications from Postdoctoral Work at Harvard Medical School:**

"Modulation of the Activity of Angiogenin by Mutagenesis at Aspartic Acid-116", T.P. Curran, R. Shapiro, J.F. Riordan and B.L. Vallee, *Biochem. Biophys. Acta*, **1202**, 281 (1993).

"Alteration of the Enzymatic Specificity of Human Angiogenin by Site-Directed Mutagenesis", T.P. Curran, R. Shapiro, and J.F. Riordan, *Biochemistry*, **32**, 2307 (1993).

#### **Publications from Graduate Work at MIT:**

"A Macrocyclic Triproline-Derived Template for Helix Nucleation", D.S. Kemp, J.H. Rothman, T. P. Curran and D.E. Blanchard, *Tetrahedron Lett.*, **36**, 3809 (1995).

"Studies of N-Terminal Templates for  $\alpha$ -Helix Formation. Synthesis and Conformational Analysis of Peptide Conjugates of (2S,5S,8S,11S)-1-Acetyl-1,4-diaza-3-keto-5-carboxy-10-thia-tricyclo-[2.8.0<sup>4,8</sup>]-tridecane (Ac-Hel<sub>1</sub>-OH)", D.S. Kemp, T.P. Curran, J.G. Boyd and T.J. Allen, *J. Org. Chem.*, **56**, 6672 (1991).

"Studies of N-Terminal Templates for  $\alpha$ -Helix Formation. Synthesis and Conformational Analysis of (2S,5S,8S,11S)-1-Acetyl-1,4-diaza-3-keto-5-carboxy-10-thia-tricyclo-[2.8.0<sup>4,8</sup>]-tridecane (Ac-Hel<sub>1</sub>-OH)", D.S. Kemp, T. P. Curran, W. M. Davis, J. G. Boyd and C. Muendel, *J. Org. Chem.*, **56**, 6683 (1991).

"Approaches to the Protein Folding Problem Through Study of Peptide-Template

Conjugates", D.S. Kemp, J.G. Boyd, T.P. Curran and N. Fotouhi in *Proceedings of the 11th North American Peptide Symposium* (eds. J.E. Rivier and G.M. Marshall) p. 861-864 (1990).

"(2S,5S,8S,11S)-1-Acetyl-1,4-diaza-3-keto-5-carboxy-10-thia-tricyclo-[2.8.0<sup>4,8</sup>]-tridecane, 1. The Preferred Conformation of 1 (1 =  $\alpha$ Temp-OH) and its Peptide Conjugates  $\alpha$ Temp-L-(Ala)<sub>n</sub>-OR (n=1 to 4) and  $\alpha$ Temp-L-Ala-L-Phe-L-Lys( $\epsilon$ Boc)-L-Lys( $\epsilon$ Boc)-NHMe. Studies of Templates for  $\alpha$ -Helix Formation", D.S. Kemp and T.P. Curran, *Tetrahedron Lett.*, **29**, 4935 (1988).

"(2S,5S,8S,11S)-1-Acetyl-1,4-diaza-3-keto-5-carboxy-10-thia-tricyclo-[2.8.0<sup>4,8</sup>]-tridecane, 1. Synthesis of Prolyl-Proline-Derived, Peptide-Functionalized Templates for  $\alpha$ -Helix Formation", D.S. Kemp and T.P. Curran, *Tetrahedron Lett.*, **29**, 4931 (1988).

"Base-Catalyzed Epimerization Behavior and Unusual Reactivity of N-Substituted Derivatives of 2,5-Dicarbalkoxyproline. Preparation of a Novel Mixed Carbamic Carbonyl Anhydride by a 4-(Dimethylamino)pyridine-Catalyzed Acylation", D.S. Kemp and T.P. Curran, *J. Org. Chem.*, **53**, 5729 (1988).

"Peptide Synthesis by Prior Thiol Capture -- IV: Amide Bond Formation: The Effect of Side-Chain Substituent on the Rates of Intramolecular O,N-Acyl Transfer", D.S. Kemp, N.G. Galakatos, S. Dranginis, C. Ashton, N. Fotouhi and T.P. Curran, *J. Org. Chem.*, **51**, 3320 (1986).

"Stereoselective Decarboxylation of a Geminal Dicarboxylic Acid. Synthesis of *cis*-5-(Hydroxymethyl)-D-proline Derivatives", D.S. Kemp and T.P. Curran, *J. Org. Chem.*, **51**, 2377 (1986).

#### **Publications from Undergraduate Research at the College of the Holy Cross:**

"Reaction of HCl with Photoproduced Base-Substituted Manganese Carbonyl Radicals", B.H. Byers, T.P. Curran, M.J. Thompson and L.H. Sauer, *Organometallics*, **2**, 459 (1983).

#### **Presentations:**

##### **Lectures:**

"Preparation and Evaluation of an  $\alpha$ -Helix Template", Clark University, Department of Chemistry Seminar Series, March 16, 1992.

"Conformationally Constrained Peptides for Cis-Proline Amides and  $\beta$ -Sheets", Connecticut College Lecture Series in Chemistry, Connecticut College, Department of Chemistry, February 28, 1995.

"Controlling Conformation Using Proline Derivatives", Invited Lecture to the staff at Ares Advanced Technology, Inc., Randolph, MA, May 2, 1997.

"Making Proline Sit Still", Department of Chemistry Seminar Series, College of the Holy Cross, Worcester, MA, October 20, 2000.

"Tungsten-Peptide Complexes", Invited Lecture, Symposium on Metal-Peptide Complexes, 221st National Meeting of the American Chemical Society, San Diego, CA, April 4, 2001.

" $\pi$ -Ligands for Generating Transition Metal-Peptide Complexes: Coordination of Amino Acid Derivatives to Tungsten Utilizing Alkyne Ligands", Oral Presentation, 2nd International Symposium on Bioorganometallic Chemistry, Zurich, Switzerland, July 15, 2004.

#### **Poster Presentations [Undergraduate Co-authors in Bold]:**

"Synthetic Progress Toward a Covalently Constrained Cis-Proline Dipeptide", Gordon Research Conference - Bioorganic Chemistry, Plymouth State College, Plymouth, NH, June 22-26, 1992.

"Synthesis and Spectroscopic Characterization of a Heterocyclic Variant of the Kemp Triacid", 207th National Meeting of the American Chemical Society, San Diego, CA, March 1994.

"Constrained Cis-Proline Amide Dipeptides", National Institutes of Health - Academic Research Enhancement Award Conference, Indianapolis, IN, April, 1995.

"Cis-4-Amino-L-Proline: a  $\beta$ -Turn Template", 210th National Meeting of the American Chemical Society, Chicago, IL, August, 1995.

"Constrained Cis-Proline Dipeptides as Biochemical Probes", 213th National Meeting of the American Chemical Society, San Francisco, CA, April 1997.

"Synthesis of Constrained Trans-Proline Dipeptides", 216th National Meeting of the American Chemical Society, Boston, MA, August 1998.

"Synthesis and Characterization of Mono- and Bis-Alkynylpeptide Tungsten Complexes", 16th American Peptide Symposium, Minneapolis, MN, June 1999.

### Service:

Trinity College:

Committees:

Ann Plato Fellowship Search Committee

Terms: Academic Years 2000-01, 2001-02, 2002-03, 2004-05

Faculty Research Committee

Terms: Academic Years 2001-02, 2002-03, 2004-05, 2005-06

(Co-chair Spring 2002, Spring 2006; Chair Fall 2002, Spring 2003, Fall 2005)

Educational Policy Committee

Term: Academic Year 2005-06

Athletic Advisory Committee

Term: Fall 2003

Howard Hughes Medical Institute Grant Steering Committee

Term: Academic Years 2004-05, 2005-06

Academic Dishonesty Appeals Board

Term: Academic Years 2004-05, 2005-06

Science Facilities Planning Committee

Term: Fall 2005

Other Assignments:

Chair, Department of Chemistry, Spring 2006-present

CPTV Science Exposition - Faculty Volunteer [March 2001]

Challenge Program - Faculty Mentor [Summer 2001]

### Other Professional Activities:

Manuscript Peer Review:

*Bioorganic and Medicinal Chemistry Letters*

*Chemical Reviews*

*International Journal of Biological Macromolecules*

*Journal of Organic Chemistry*

*Microchemical Journal*

*Organic Letters*

*Phytochemistry*

*SynLett*

*Tetrahedron*

*Tetrahedron Letters*

Grant Application Peer Review:  
Research Corporation  
Petroleum Research Fund