

CURRICULUM VITAE

Name: Fehmi Damkaci, Ph.D.

Position: Assistant Professor

Address: Department of Chemistry
224 Snygg Hall
SUNY-Oswego
Oswego, NY 13126

Phone: (315) 312 2698

Fax: (315) 312 5424

Email: damkaci@oswego.edu

EDUCATION

2004 - 2006 Postdoctoral Fellow at T. Ross Kelly Lab., Boston College
2000 - 2004 Ph.D., Organic Chemistry, University of Maryland, College park
1998 - 2000 M.S., Organic Chemistry, University of Maryland, College Park
1992 - 1995 Teaching Certificate, Ege University, Izmir, Turkey
1991 - 1995 B.S., Chemistry, Ege University, Izmir, Turkey

EXPERIENCE

2006 - present *Assistant Professor, SUNY at Oswego*

Main focus of research is total synthesis of natural products with medicinal and structural importance and the development of new organic methodologies.

2004 - 2006 *Post-Doctoral Fellow, Boston College*

Participated in the synthesis of rationally designed molecular motor and the total synthesis of the natural product Pterocelline A.

2000 - 2004 *Research Assistant, University of Maryland, College Park*

Developed methodology for the stereoselective synthesis of glycosylamides using glycosyl azides and thioesters via isoxazoline intermediates.

Synthesized various mono- and disaccharides possessing thiol linkers, which are placed on nano-gold particles to be used as biosensors.

1998 - 2000 *Research Assistant, University of Maryland, College Park*

Synthesized amphiphilic glycouril derivatives and their dimers to study their hydrophobic self-assembly behavior in water.

1993 - 1995 *Undergraduate researcher, Ege University, Izmir, Turkey*

AWARDS and HONORS

2005	Finalist, Invention of the year 2004, University of Maryland
2004 - 2006	Post-doctoral Fellowship, Boston College
2002	J. Goldhaber Travel Award, University of Maryland
1998 - 2004	Teaching and Research Assistantships, University of Maryland
1998 - 2000	Graduate Studies Fellowship, Ministry of Education, Turkey
1991 - 1995	Undergraduate Fellowship, Yasar Education and Culture Foundation

PROFESSIONAL MEMBERSHIPS

2002-present	American Chemical Society
2004-present	Turkish American Scholars and Scientists Association
2008-present	Treasurer, Sigma Xi Oswego Chapter

TEACHING EXPERIENCE

CHE555: Medicinal Chemistry	Summer'09; Fall'08;
CHE536: Advanced Organic Chemistry	Fall'09; Fall'07; Fall'06
CHE540: Advanced Organic Spectroscopy	Spring'08
CHE331: Organic Chemistry I	Fall'08; Fall'06
CHE332: Organic Chemistry II	Spring'09; Spring'07
CHE230: Intro. Organic Chemistry	Fall'09; Fall'07
CHE360: Intro. Biochemistry	Spring'08
CHE209: Chemistry and Public Concern	Fall'09; Spring'08; Fall'07; Spring'07
CHE209 (Online version)	Spring'09; Fall'08; Summer08; Spring'08; Summer09

DEPARTMENT and UNIVERSITY SERVICES

- 2008-present University Graduate Council
- 2008-present University International Advisory Council
- 2008-present University Library Council
- 2007-present University Science Planning committee, member
- 2007-present University Scholarly & Creative Activity committee, member
- 2007-present University Student Scholarly & Creative Activity sub-committee, member
- 2007-present Chemistry Graduate Program Coordinator
- 2007-present Departmental Equipment committee, chair
- 2007-present Departmental Curriculum committee, member
- 2006-present Departmental Graduate committee, member

DOCTORAL DISSERTATION

- Title: Methods for stereoselective synthesis of glycopyranosylamide linkage

PATENTS

- DeShong, P.; **Damkaci, F.**; Kadalbajoo, M.; English, D.; Stein, D. "Use of nano-gold particles as biosensors" US. Patent, 2007-0249063.

ARTICLES

- Kelly, T. R.; Cai, X.; **Damkaci, F.**; Panicker, S. B.; Tu, B.; Bushell, S. M.; Cornella, I.; Piggott, M.; Salives, R.; Cavero M.; Zhao Y. "Progress toward a Rationally Designed, Chemically Powered Rotary Motor", *J. Am. Chem. Soc.* **2007**, *129*, 376-386.
- O'Malley, M; **Damkaci, F.**; Kelly, T.R. "Total Synthesis of Pterocelline A", *Organic Lett.* **2006**, *8*, 2651-2652.
- Damkaci, F.**; DeShong, P. "Stereoselective synthesis of alpha- and beta-glycosylamides from glycopyranosyl azides *via* isoxazoline intermediates", *J. Am. Chem. Soc.* **2003**, *125*, 4408-4409.
- Steel W. H.; **Damkaci F.**; Nolan R.; Walker R. A. "Molecular rulers: new families of molecules for measuring interfacial widths", *J. Am. Chem. Soc.* **2002**, *124*, 4824-4831.
- Wu, A.; Chakraborty, A.; Witt, D.; Lagona, J.; **Damkaci, F.**; Ofori, M.; Chiles, J.; Fettinger, J.; Isaacs, L. "Methylene Bridged Glycoluril Dimers: Synthetic Methods", *J. Org. Chem.* **2002**, *67*, 5817-5830.
- Witt, D.; Lagona, J.; **Damkaci, F.**; Fettinger, J.C.; Isaacs, L. "Diastereoselective Formation of Methylene-Bridged Glycoluril Dimers", *Organic Lett.* **2000**, *2*, 755-758.

- **Damkaci, F.**; DeShong, P. "Stereoselective synthesis of alpha- and beta-glycosylamides from glycopyranosyl azides", manuscript submitted to *J. Am. Chem. Soc.*
- **Damkaci, F.**; Jarvis, B. B. "A short total synthesis of the oral contraceptive desogestrel", *Chemtracts* **1999**, *12*, 1013-1018.

PRESENTATIONS

2009 (18) Sigma Xi Regional Conference, SUNY, Oswego, NY (04/09)

2008 (17) Academic Career Workshop, University of Rochester, (10/08)

(16) ACS-Northeast Regional Conference, Burlington, VT (06/08)

(15) Sigma Xi Regional Conference, Cornell University, Ithaca, NY (03/08)

(14) Izmir Institute of Technology, Turkey (01/08)

(13) Aegean University, Turkey (01/08)

2007 (12) Sigma Xi Poster Conference, SUNY at Oswego (12/07)

(11) Sigma Xi Poster Conference, SUNY at Oswego (12/07)

(10) Global Awareness Conference, SUNY at Oswego (05/07)

2006 (9) Astra-Zeneca, Boston (03/06)

(8) University of North Carolina at Fayetteville (02/06)

2005 (7) 230th ACS Conference, Washington D.C (08/05)

(6) Aegean University, Turkey (04/05)

2004 (5) 228th ACS Conference, Philadelphia (08/04)

2002 (4) 224th ACS Conference, Boston (08/02)

2001 (3) University of Maryland, College Park (03/01)

2000 (2) 220th ACS Conference, Washington D.C (08/00)

1999 (1) Ankara University, Turkey (11/99)

GROUP MEMBERS

Graduate Research Advisees:

Yufang Liu

Esra Altay

Carl Nysten (part-time)

Undergraduate Research Advisees:

Megan Wagner

Greg Blette

David Zupruk

David Buechel

Yoshihiro Miura

Amber Wayne

Ned Karcich

Former Research Students:

Michael T. Bovino at SUNY-Buffalo Chemistry PhD program

Adam Stringer at SUNY-ESF Chemistry PhD program

Tim Humeston at SUNY-Oswego Chemistry MS program

Caitlin Snyder at SUNY-Buffalo Pharmacy School

Andrew Camelio at Texas-Austin Chemistry PhD program