

Nur MUSTAFAOGLU

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Department of Chemical and Biomolecular Engineering
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EDUCATION

- **University of Notre Dame, Notre Dame, USA**
CBE – Bioengineering – PhD
Advisor: Assist. Prof. Basar Bilgicer
- **Istanbul Technical University, Istanbul, Turkey**
2012 - Nano Science & Nano Engineering - MSc
2011 - Physics Engineering - BSc. Second Major Degree
2010 - Molecular Biology and Genetic - BSc. First Major Degree

PUBLICATIONS

Article:

- Nathan J. Alves, **Nur Mustafaoglu**, Basar Bilgicer (2014). Conjugation of a Reactive Thiol at the Nucleotide Binding Site (NBS) for Site-Specific Antibody Functionalization, *Bioconjugate Chemistry*, 25, 6534-6541. <http://pubs.acs.org/doi/abs/10.1021/bc500211d>
- Nathan J. Alves, **Nur Mustrafaoglu**, Basar Bilgicer (2013). Oriented antibody immobilization by site-specific UV photocrosslinking of biotin at the conserved nucleotide binding site for enhanced antigen detection, *Biosensors and Bioelectronics*, 49, 387–393. <http://dx.doi.org/10.1016/j.bios.2013.05.052>
- Gokhan Bilir, **Nur Mustafaoglu**, Gonul Ozen & Baldassare Di Bartolo (2011). Characterization of emission properties of Er³⁺ ions in TeO₂--CdF₂--WO₃ glasses. *Spectrochimica Acta Part A: Molecular Spectroscopy*, 83, 314-321. <http://dx.doi.org/10.1016/j.saa.2011.08.037>

Conference Abstracts:

Poster:

- **Nur Mustafaoglu**, Marketa Hnilova, Candan Tamerler, Mustafa Urgan, *Langmuir Blodgett Film Deposition of Gold Nanoparticles on Glass Using Self Organization of Bi-Funtional Peptides*, 2013 TMS Annual Meeting & Exhibition, Biological Materials Science Symposium, March 3-7, 2013, San Antonio, Texas, USA.
- **Mustafaoglu N.**, Gungormus M., Tamerler C., Urgan M., *Production of Langmuir-Blodgett Films by Using Peptide Functionalize Gold Nanoparticles*, NanoTR8 – Türkiye Nano Bilim ve Nano Teknoloji Konferansı - Nanomed 2012 – IANM III. World Congress, June 20-24, 2012 Hacettepe University, Ankara, Turkey.
- Buse Ozen, Gülşen Akın Evingür, **Nur Mustafaoglu**, F. Gülay Acar, *Thermal Effects on Cornea During Keratoconus Treatment*, The Sixth International Conference on Thermal Engineering Theory and Applications, May 29 - June 1, 2012, Istanbul Turkey.
- **N. Mustafaoglu**, F.G. Acar, B. Özen, G. Özen, F. Canbaz, G. Akın Evingür, *Diffusion modeling of photocuring depth for collagen cross-linking on cornea*, 8th International Conference on Nanoscience & Nanotechnologies (NN11), 2011, Thessaloniki, Greece.

- F.G.Acar, **N. Mustafaoglu**, G. Akın Evingür, G. Özen and V. Kaya, *A Spectroscopic Investigation of Riboflavin in the Dextran and Dextrin Solvents*, Bioceramics23 – 23rd Symposium and Annual Meeting of International Society for Ceramics in Medicine, 2011, Istanbul, Turkey.

Oral Presentation:

- Irmak Ildır, Ali M. Altıngün, **Nur Mustafaoglu**, Gülşen Akın Evingür, Buse Özen, F. Gülay Acar, *Investigation of Thermal Effects and Physical Parameters on Crosslinking by Different Riboflavin Solutions and UV-A*, The Sixth International Conference on Thermal Engineering Theory and Applications, May 29 - June 1, 2012, Istanbul Turkey.
- **N. Mustafaoglu**, G. Akın Evingür, B. Özen, F. Gülay Acar, G. Özen, *Part I. Experimental Study of Riboflavin – Dextran and Riboflavin – Dextrin Solutions*, 15. Ulusal Sıvıhal Fiziği Sempozyumu, 2011, Piri Reis University Tuzla, Istanbul, Turkey.
- B. Özen, **N. Mustafaoglu**, G. Akın Evingür, F. Gülay Acar, G. Özen, *Part II. Theoretical Study of Riboflavin – Dextran and Riboflavin – Dextrin Solutions*, 15. Ulusal Sıvıhal Fiziği Sempozyumu, 2011, Piri Reis University Tuzla, Istanbul, Turkey.
- F.G.Acar, G. Özen, **N. Mustafaoglu**, F. Canbaz, G. Akın Evingür, V. Kaya, *Photopolymerization Processes in Corneal Collagen Cross-Linking*, 8th International Conference on Nanoscience & Nanotechnologies (NN11), 2011, Thessaloniki, Greece.

Others

- **Nur Mustafaoglu**, “*Biyo-Benzetim*”, Net Bilim Dergisi, December 2011, available at <http://www.netbilim.kuark.org/2011/12/netbilim-dergisi-aralik-2011-sayisi/>
- **Nur Mustafaoglu**, “*Nanobilim*”, Potansiyel Gençlik Kariyer ve Gelişim Dergisi, May / April 2011, Vol. 2, Istanbul, Turkey

EXPERIENCES & PROJECTS

- **Nano Science and Nano Engineering M.Sc Thesis Project:** Langmuir Blodgett assembly of peptide functionalized nanoparticles onto quartz surfaces and their characterization, October 2011 - 2012
Advisors: Prof. Dr. Mustafa ÜRGEN and Prof. Dr. Candan Tamerler
- **ITU – BAP Project:** Investigation of collagen crosslinking technique for the cornea, **Researcher**, ITU – Physics Dept, September 2011 - 2012
- **Physics Engineering Graduation Project:** Photopolymerization processes in corneal collagen Cross-Linking for human cornea, January 2011
Advisor: Prof. Dr. Gönül ÖZEN
- **Molecular Biology and Genetic Graduation Project:** Cloning of DsRed gene into *E.coli* expression vector, May 2010
Advisors: Prof. Dr. Candan TAMERLER, Assoc. Prof. Dr. Ayten YAZGAN KARATAŞ
- **Student Teaching Assistant**, Lectured in undergraduate course “FİZ 106L – Physics II Lab.”, January 2010 – June 2010
- **Summer internship** at Uludağ University, Faculty of Science and Letters, Physic Department, Subject: Synthesis of magnetic multilayers with electrodeposition method, 13 July – 07 August 2009, Bursa, Turkey
Advisor: Prof. Dr. Mürsel ALPER
- **Summer internship** at Ankara University, Faculty of Engineering, Physic Engineering Department, Subject: Magnetic Materials, Metal Physic, Atomic Force Microscopy, 15 June – 10 July 2009, Ankara, Turkey
Advisor: Prof. Dr. Yalçın ELERMAN

- **Summer internship** at Istanbul Technical University, Faculty of Mechanical Engineering, Subject: atelye internship, 01 September – 12 October 2008, Istanbul, Turkey
- **Summer internship** at Bosphorus University, Faculty of Science and Letters, Molecular Biology and Genetic Department, Subject: Researching BRI and CNN3 protein interactions on Wnt/ β - catenin gate which are related with cancer cells, with yeast two hybrid methods. 7 July – 15 August 2008, Istanbul, Turkey

Advisor: Assoc. Prof. Dr. Necla BİRGÜL- İYİSON

ACHIEVEMENTS & HONORS

- Fulbright Scholarship, 2011 - 2014
- TEV scholarship, Turkish Educational Foundation (TEV), January 2011 – June 2012
- Prime Minister's Scholarship, Credit Residential Institution (KYK), January 2006 - June 2010
- Nilüfer Milli Piyango Anatolian High School - Honored Certificate, 2005

KNOWLEDGE AND SKILLS

Computer: OriginLab, PyMOL, Chem-Draw,
C, MATLAB, R

Language: English – Good
German – Beginner

CONFERENCES & SCHOOLS ATTENDED

20-24 June 2012	Türkiye Nano Bilim ve Nano Teknoloji Konferansı - Nanomed 2012 – IANM III. World Congress, June 20-24, 2012 Hacettepe University, Ankara, Turkey.
24-26 November 2011	15. Ulusal Sıvıhal Fiziği Sempozyumu, Piri Reis University Tuzla, Istanbul / Turkey
06-09 November 2011	Bioceramics23 – 23 rd Symposium and Annual Meeting of International Society for Ceramics in Medicine, Istanbul / Turkey
19-22 August 2011	International-attended ITU 5 th National Molecular Biology and Genetics Student Congress, ITU, Istanbul / Turkey
12-15 July 2011	8 th International Conference on Nanoscience & Nanotechnologies (NN11), Thessaloniki / Greece
11-12 May 2009	Horizons in Molecular Biology and Genetic Symposium, Bilkent University, Ankara / Turkey
8-12 June 2009	5. National Nanoscience ve Nanotechnology Conference, Anadolu University, Eskişehir / Turkey
5 June 2008	Molecular Biology and Genetic Department Carrier Day 2008, Istanbul University, Istanbul / Turkey
03-06 Sep 2007	14. Ulusal Biyoloji Öğrenci Kongresi, Selcuk University, Konya / Turkey
20-24 August 2007	Ulusal Nörobiyoloji Yaz Okulu: Sinir Sisteminin Yüksek Fonksiyonları, Ege University, İzmir / Turkey
11-13 May 2007	Moleküler Biyoloji ve Genetik Hafta Sonu II, Bogazici University, Istanbul / Turkey
1-4 Feb 2007	IV. Ulusal Moleküler Biyoloji ve Genetik Öğrenci Kış Okulu, Istanbul University, Istanbul / Turkey

2005	Community Voluntaries Group (TOG) Education Certificates
	Civil Society and Voluntary, Management of Project, TOG Introduction Seminar, Voluntarily Projects Team Working Process.
4-11 July 2002	Association of Town Awarded the Europe Prize General Assembly, Local Agenda 21 - Bursa Youth Council, Bursa / Turkey

OTHER INFORMATION

Social Activities

- Member of Nanotechnology Club, ITU, Istanbul / Turkey, 2011
- Member of Istanbul Technical University Molecular Biology and Genetic Club, ITU, Istanbul / Turkey, 2006 - 2010
- Member of Istanbul Technical University Community Voluntaries Group (İTÜTOG) - Yolgöster Project, ITU, Istanbul / Turkey, 2005 - 2007
- Member of Local Agenda 21 - Bursa Youth Council, Bursa Büyükşehir Belediyesi, Bursa / Turkey, 2001 – 2004

Interests

Painting, Theatre, Cinema, Literature, Visiting Museum and Tracking.