

## Nur MUSTAFAOĞLU

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### EDUCATION

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- 2010-** : **Istanbul Technical University, Istanbul**  
Nano Science & Nano Engineering / MSc / GPA: 3.72 / 4.00
- 2007- 2011** : **Istanbul Technical University, Istanbul**  
Physics Engineering / BSc. Second Major Degree / GPA: 3.59 / 4.00
- 2005- 2010** : **Istanbul Technical University, Istanbul**  
Molecular Biology and Genetic /BSc. First Major Degree / GPA: 3.51 / 4.00
- 2001-2005** : **Nilüfer Milli Piyango Anatolian High School (Nilüfer / Bursa)**  
GPA: 4.80 / 5.00

### KNOWLEDGE AND SKILLS

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

**Language:** English – Good  
German – Beginner

### EXPERIENCES & PROJECTS

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- **Nano Science and Nano Engineering M.Sc Thesis Project:** Langmuir Blodgett assembly of peptide functionalized nanoparticles onto quartz surfaces and their characterization, October 2011 - present  
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 - present
- **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 “FIZ 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/  $\beta$ - 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 BİRĞÜL- İYİSON

## ACHIEVEMENTS & HONORS

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

## CONFERENCES & SCHOOLS ATTENDED

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24-26 November 2011	:15. Ulusal Sıvhal Fiziği Sempozyumu, Piri Reis University Tuzla, Istanbul / Turkey
06-09 November 2011	:Bioceramics23 – 23 <sup>rd</sup> Symposium and Annual Meeting of International Society for Ceramics in Medicine, Istanbul / Turkey
19-22 August 2011	:International-attended ITU 5 <sup>th</sup> National Molecular Biology and Genetics Student Congress, ITU, Istanbul / Turkey
12-15 July 2011	:8 <sup>th</sup> 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

## PUBLICATIONS

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### Article:

- Bilir G., Mustafaoglu N., Ozen G., & Dibartolo B. (2011). Characterization of emission properties of Er<sup>3+</sup> ions in TeO<sub>2</sub>--CdF<sub>2</sub>--WO<sub>3</sub> glasses. *Spectrochimica Acta Part A: Molecular Spectroscopy*, 83, 314-321. [doi:10.1016/j.saa.2011.08.037](https://doi.org/10.1016/j.saa.2011.08.037)

### Conference Abstracts:

#### Poster:

- N. Mustafaoğlu, F.G. Acar, B. Özen, G. Özen, F. Canbaz, G. Akın Evingür  
*Diffusion modeling of photocuring depth for collagen cross-linking on cornea*,  
8<sup>th</sup> International Conference on Nanoscience & Nanotechnologies (NN11), Thessaloniki, Greece, 2011
- F.G.Acar, N. Mustafaoğlu, G. Akın Evingür, G. Özen and V. Kaya  
*A Spectroscopic Investigation of Riboflavin in the Dextran and Dextrin Solvents*,  
Bioceramics23 – 23<sup>rd</sup> Symposium and Annual Meeting of International Society for Ceramics in Medicine, Istanbul, Turkey, 2011

#### Oral Presentation:

- N. Mustafaoğlu, G. Akın Evingür, B. Özen, F. Gülay Acar, G. Özen  
*Part I. Experimental Study of Riboflavin – Dextran and Riboflavin – Dextrin Solutions*  
15. Ulusal Sıvhal Fiziği Sempozyumu, Piri Reis University Tuzla, Istanbul, Turkey, 2011
- B. Özen, N. Mustafaoğlu, G. Akın Evingür, F. Gülay Acar, G. Özen  
*Part II. Theoretical Study of Riboflavin – Dextran and Riboflavin – Dextrin Solutions*  
15. Ulusal Sıvhal Fiziği Sempozyumu, Piri Reis University Tuzla, Istanbul, Turkey, 2011
- F.G.Acar, G. Özen, N. Mustafaoğlu, F. Canbaz, G. Akın Evingür, V. Kaya  
*Photopolymerization Processes in Corneal Collagen Cross-Linking*  
8<sup>th</sup> International Conference on Nanoscience & Nanotechnologies (NN11), Thessaloniki, Greece, 2011

### Others

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

## OTHER INFORMATIONS

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### 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.