



Feride şermin Utku

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Department of Biomedical Engineering
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Research Interests

- Biomaterials, bionanomaterials
- Biomineralization of hard tissues using peptides, regenerative medicine
- Surface coatings of biomaterials
- Biological materials, mechanical behavior of biological materials

Education:

Post-Doctorate	İTÜ, Ayazağa, İstanbul, Türkiye	Department of Molecular Biology and Genetics	Biomaterials and surface coatings
	Advisor: Prof. Candan Tamerler		
	Post-Doctorate Studies::		
Doctorate	Boğaziçi University, İstanbul, Türkiye	Biomedical Engineering Institute	Biomaterials
	Advisor: Prof. Stephen Weiner Co-Advisors: Prof. Hale Saybaşılı, Assoc. Prof. Can A. Yücesoy		
	Doctoral Thesis:		
Master of Science	Boğaziçi University, İstanbul, Türkiye	Biomedical Engineering Institute	Biomaterials

	Co-Advisors: Prof. Ahmet Ademoğlu, Dr. Aykut Sümer		
	Master of Science Thesis:		
Under-graduate	Earlham College, Richmond, IN, ABD.	Faculty of Letters and Sciences	Biology- Chemistry;Peace &International Relations (PAGS)
	Advisor: Prof. Bill Stevenson (Biology-Chemistry) Advisor: Prof. Howards Richards (Peace & International Studies (PAGS))		
	Under-Graduate Study:		
High School	American Academy for Girls at Uskudar, Istanbul		

Academic/Employment

Institution, City, Country, Department, Position	Dates
Yeditepe University, Istanbul, Turkiye, Department of Biomedical Engineering, Assis. Prof. Dr.	2012-2014 part time; 2014-date full time
Namık Kemal University, Tekirdağ, Turkiye, Department of Biomedical Engineering, Assis. Prof. Dr.	2011-2014
Istanbul Technical University, Istanbul, Turkiye, Department of Molecular Biology and Genetics, Post-Doctoral Research Fellow	
Boğaziçi University, Istanbul, Turkiye, Biomedical Engineering Institute Doctoral Student, Research Assistant	2001-2011
Northwestern University, Medical School, Chicago, IL., USA, Department of Molecular Biology and Genetics, Research Assistant	1986
Earlham College, Richmond, IN, USA, Department of Biology, Research Assistant	1981-1985

Publications

Recent Publications
FS. Utku, E. Seçkin, G. Goller, C. Tamerler, M. Urgan, Carbonated Hydroxyapatite deposition at physiological temperature on ordered titanium oxide nanotubes using pulsed electrochemistry, Ceramics International, DOI: 10.1016/j.ceramint.2014.07.004, 2014. Link to: http://ac.els-cdn.com/S0272884214010372/1-s2.0-S0272884214010372-main.pdf?_tid=0390eb80-2d1f-11e4-999a-00000aab0f27&acdnat=1409057375_de498177b9979894955d2e4402f6cb0f
FS. Utku, M. Barak, E. Klein, CA. Yucesoy, H. Saybasili, S. Weiner, "Probing the role of water in lamellar bone by dehydration in the Environmental Scanning Electron Microscope, Journal of Structural Biology, Vol. 162 Is. 3, pg. 361-367, 2008. Link to: http://ac.els-cdn.com/S1047847708000051/1-s2.0-S1047847708000051-main.pdf?_tid=7a843bc0-2d1f-11e4-a9c8-00000aab0f02&acdnat=1409057575_af060ced3c3caa3325c46590b66b1ff1
FS Utku, E. Karaca, E. Seçkin, G. Göller, M. Ürgen, C. Tamerler, Titanyum Implantların Topografik ve Kimyasal Özelliklerinin Osteoblastlar Üzerindeki in vitro Etkileri, Tıp Teknolojileri Ulusal Kongresi, Antalya, Türkiye, 2012.
FS. Utku, E. Yuca, E. Seçkin, G. Göller, M. Sarıkaya, A. Yazgan-Karataş, M. Ürgen, C. Tamerler, Engineered Green Fluorescence Fusion Protein as a Marker of Hydroxyapatite Deposition on Nanotubes, 17th International Symposium on Biomedical Science and Technology, Ankara, Turkey, 2011.
FS. Utku, E. Yuca, E. Seçkin, G. Göller, M. Sarıkaya, A. Yazgan-Karataş, M. Ürgen, C. Tamerler, Heterofonksiyonel Yeşil Floresan Proteininin Nanotüplerde Oluşan Hidroksiapatitin İşaretleyicisi Olarak Kullanılması, Biyomut 2011, Antalya, Türkiye, 2011.
FS. Utku, E. Seçkin, G. Göller, C. Tamerler, M. Ürgen, Hydroxyapatite Deposition on Ordered Nanotubular Titanium Oxide Plates, NanoTR-VI izmir, Türkiye, 2010.
FS. Utku, E. Seçkin, G. Göller, C. Tamerler, M. Ürgen, Titanyum Plakaların Yüzey Özelliklerinin Elektrokimyasal Yöntemle Endüklenmiş Biyomineralizasyona Etkileri, Biyomut 2010, Antalya, Türkiye, 2010
FS. Utku, M. Barak, R. Shahar, CA. Yucesoy, H. Saybasili and S. Weiner, Mechanical consequences of structural transition from primary lamellar to secondary osteonal bone: an optomechanical study, Biomed 2009, Guzelyurt, Kıbrıs, 2009.
FS. Utku, M Barak, CA. Yucesoy, H. Saybasili, S. Weiner, Kortikal Kemik Dokusunun Mekanik Özelliklerinin Optomekanik Yöntemle incelenmesi, Biyomut 2009, Izmir,

Turkey, 2009.
FS. Utku, E. Seçkin, G. Göller, C. Tamerler, M. Ürgen, Hydroxyapatite Deposition in Titanium Dioxide Nanotubes, Nanomats 2009, İstanbul, Türkiye, 2009.
FS Utku, M. Güngörmüş, UOS şeker, AY Karataş, M Sarıkaya, C Tamerler, inorganiklere bağlanan peptidlerce indüklenen kalsiyum fosfat mineralizasyonunun çevresel taramalı elektron mikroskopuyla görüntülenmesi, İTÜ Nano-Bilim ve Nano-Teknoloji Çalıştay, Süleyman Demirel Kültür Merkezi, 12-13 şubat 2009, 2009.
FS. Utku, E. Klein, H. Saybasili, CA. Yucesoy and S. Weiner, Probing the role of water in lamellar bone by dehydration in the Environmental Scanning Electron Microscope, Gordon Conference on Biomineralization,2008, New Hampshire, USA, 2008.
FS. Utku, M Barak, E. Klein, CA. Yucesoy, H. Saybasili, S. Weiner, “Dehidrasyon sonucu oluşan çekme sonrasında kortikal kemiğin lameler yapısının incelenmesi”, Biyomut 2008, Ankara, Turkey, 2008.

Courses Taught

Courses	Language	Years
General Chemistry	Turkish	2011,2012
Organic Chemistry	Turkish	2011,2012
Human Physiology	English	2013,2014
Introduction to Biomedical Engineering	English	2013
Biomaterials	Turkish/English	2010-2014
Bionanomaterials	Turkish	2011,2012
Electrical Materials	Turkish	2012,2013
Orthopedic Cements for Hard Tissue Repair	English	2012-2014
Biochemical Analysis Devices	Turkish	2012,2013