

Esra ALTUN

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Personal Information

Birthday and Place : 08.10.1992 / Istanbul
Marital Status : Single
Language Skills : English (C1) // Deutsch (A1)
Driver Licence : B Class
Hobbies : Archery (School Team), Skiing, Swimming, Skating, Books, Movies, Music, Social Media, Literature, History, Documentary
Valid Visas : USA, UK

Education

Feb. 2016 - Present **M.Sc.** Department of Metallurgical and Materials Engineering
Institute of Science and Technology, Marmara University, Istanbul

Feb. 2016 **B.Sc. Degree** 3.37/4.00, Department of Biology,
Faculty of Arts and Sciences, Marmara University, Istanbul

Working Experience

Jan. 2017 - Present Graduate Researcher
Department of Mechanical Engineering
University College London, UK

Nov. 2016 - Present Project Assistant
Biomedical Imaging and Diagnostic Systems Development Laboratory
Marmara University

Jan. 2015- Nov. 2016 Research Assistant of Assoc. Prof. Dr. Gunduz
Advanced Nanomaterials Research Laboratory
Marmara University

June – July 2012 Microbiology Research Laboratory – Summer Internship
Microbiological researches with human blood, body fluids and secretions
Medigold Hospital, Istanbul

Publications

1. **Novel Making of Bacterial Cellulose Blended Polymeric Fiber Bandages**, 2018, *Macromolecular Materials and Sciences*, (Selected as Cover Page of the March Issue)
2. **Production and Characterization of Antimicrobial Electrospun Nanofibers Containing Polyurethane, Zirconium Oxide and Zeolite**, 2017, *BioNanoScience* pp1-12
3. **Electrospun Nanocomposite Materials, A Novel Synergy of Polyurethane and Bovine Derived Hydroxyapatite**, 2017, *J. Phys.: Conf. Ser.* 1, 829.
4. **Hydroxyapatite Synthesis from Fish Bones: Atlantic Salmon (Salmon Salar) 2017**, *Acta Phys. Pol. A* 131 (3)400.

Conferences/Presentations

1. **EHD Bioprinting of Polycaprolactone Scaffolds**, Oral Presentation, 2nd International Conference on Frontiers of Composite Materials (ICFCM 2017) Melbourne, Australia (15-17 November 2017)
2. **Production of the PCL/Zinc Oxide/Silver Nitrate Nanofibrous Scaffolds with Enhanced Antimicrobial Activity Using Co- Axial Electrospinning Method**, Poster Presentation, 13th International Conference on Materials Chemistry (MC 13), Liverpool, UK (10-13 July 2017)
3. **Production of Bone Tissue Engineering Nanofiber Scaffold by Electrospinning Method**, 10th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting, Multifunctional and Nanomaterials (JAPMED'10), Izmir, Turkey (4-8 July 2017)
4. **A New Microparticle Production Research via Electrospinning**, Poster Presentation, Micro Nano Conference, Amsterdam, Holland (13-14 December 2016)
5. **Electrospun Polycaprolactone (PCL)/Ethyl Cellulose (EC) /Collagen Nanofibrous Scaffolds for Cardiovascular Tissue Engineering** Oral Presentation, The 16th International Conference on Biomedical Engineering (ICBME 16) Singapore (7-10 December 2016)
6. **Hydroxyapatite/ Polymethylsilsesquioxane /Hexagonal Boron Nitride/Chitosan Nanofiber Composites for Bone Tissue Engineering Applications**, Oral Presentation, 28th Symposium and Annual Meeting of the International Society for Ceramics in Medicine, Charlotte, USA (18-21 October 2016)
7. **Hydroxyapatite Synthesis from Fish Scale: Atlantic Salmon (*Salmo salar*)**, Oral Presentation, 6th APMAS International Advances in Applied Physics and Material Science Congress & Exhibition Istanbul, TURKEY (1-3 June 2016)
8. **Nanocapsule Chocolate with Vitamins and Minerals**, Poster Presentation, 4th International Food R&D Brookerage Event Izmir, Turkey (23-24 May 2016)
9. **Nanobiotextile Production from Bacterial Cellulose Beside of the Cotton Source Cellulose**, Poster Presentation, UTIB 8th R&D Project Brookerage Event Bursa, Turkey (12-13 May 2016)
10. **Production of the Polyurethane/ Zeolite Nanocomposites with Electrospinning Method for Biomedical Engineering Applications**, Poster Presentation Annual Conference & Expo on Biomaterials (Biomaterials 2016) London, UK (14-16 March 2016)
11. **Production of the new bioinspired neuroregeneration structure**, Oral Presentation, Annual Conference & Expo on Biomaterials (Biomaterials 2016) London, UK (14-16 March 2016)
12. **Production of novel bioceramic ha biomaterials from natural sources**, 8th International Biomechanics Congress, Ankara, Turkey (19-23 March 2016)
13. **A Novel Study: The Mechanical Properties of Marine Sources Derived Hydroxyapatite(HAp)- Polycaprolactone(PCL) Biocomposites**, Poster Presentation, 1st International Pharmacogenomics Istanbul Summit Istanbul, Turkey (28 Nov 2015)
14. **Production of Bacterial Cellulose Nanofibers for Tissue Engineering Applications**, Poster Presentation, 27th Symposium and Annual Meeting of the International Society for Ceramics in Medicine, Bali, Indonesia (27-29 October 2015)
15. **Bacterial Cellulose Antimicrobial Food Packaging Which Obtained from Food Waste and New Generation Biosensor Food Packaging via Microchip - EHDA Methods**, III. Food AR-GE Bookerage Market (21-22 April 2015), Izmir, Turkey, 4th of Turkey Innovation Week Istanbul, Turkey (3-5 December 2015)

Scholarships

- TUBITAK 2224-A Program for Participating in Scientific Activities Abroad (1500 USD)
- National Science Foundation (NSF) and the International Society for Ceramics in Medicine (ISCM) scholarship. (1000 USD)

Projects and Certificates

- Scanning Electron Microscopy (SEM) Operator Certificate awarded by Zeiss. (2017 Sept.)
- Fourier Transform Infrared Spectroscopy (FTIR) User Certificate awarded by Jasco. (2017 Oct.)
- Endnote Bibliography Program Training, participation certificate, (2016 Feb.)
- 18th and 19th National Biology Student Congress Social Activities Officer
- Good Manufacturing Practices (GMP), Good Laboratory Practice(GLP), Good Hygiene Practices(GHP) certificates. IEMA, Sept. (2014 Sept.)

Computer Skills

- macOS, iOS, MS Windows, MS Office, Adobe Acrobat Pro DC
- OLYMPUS analySIS FIVE
- Cura 3D printing software
- ImageJ
- Design of laboratory brochures and logos

Device Skills

- Hyrel Engine, SR 3D Printer
- Ultimaker 2+ 3D Printer
- Electrospinning, EHDA and Gyration Devices
- Scanning Electron Microscope (Zeiss EVO MA 10)
- Optical and Fluorescent Microscopes
- UV Spectrophotometer
- Real Time PCR
- Viscometer (Brookfield)
- Surface Tension Measurement Machine
- SurPASS 3 Solid Surface Analyzer (Anton Paar)
- Tensile Testing Machine (Instron)
- X-Ray Diffractometer (XRD)
- Fourier Transform Infrared Spectroscopy (FTIR, JASCO)

References

Prof. Mohan Edirisinghe

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