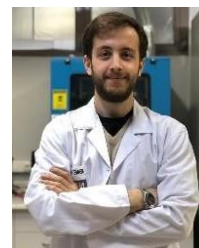


Mehmet Onur AYDOGDU

- e-mail: aydogdumonur@gmail.com
- Web Page: [Advanced Nanomaterials Research Laboratory](#)



Personal Information

Birthday and Place : 13.07.1991 / Istanbul
Marital Status : Single
Language Skills : English (C2), YDS Score: 84 // Deutsch (A1)
Driver Licence : B Class
Hobbies : Cycling, Swimming, IT, Volleyball
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** Department of Biology,
Faculty of Arts and Sciences, Marmara University, Istanbul

Sept. 2009 Besiktas Ataturk Anatolian High School

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

July – Sept. 2013 Hematopoietic Stem Cell Laboratory – Summer Internship
Hematopoietic Stem Cell Transplantation
Sisli Florence Nightingale Hospital / Istanbul/TURKEY

Publications

1. **Novel Making of Bacterial Cellulose Blended Polymeric Fiber Bandages**, 2018, *Macromolecular Materials and Sciences*, (Cover Page of the March Issue)
 2. **3D Liquid Bioprinting of the PCL / β -TCP Scaffolds**, 2017, *Mater. Sci. Forum*.
 3. **Production and Characterization of Antimicrobial Electrospun Nanofibers Containing Polyurethane, Zirconium Oxide and Zeolite**, 2017, *BioNanoScience* p.1-12
 4. **Electrospun Nanocomposite Materials, A Novel Synergy of Polyurethane and Bovine Derived Hydroxyapatite**, 2017, *J. Phys.: Conf. Ser.* 1, 829.
 5. **Physical Characterization of Turbot (Psetta Maxima) Originated Natural Hydroxyapatite** 2017, *Acta Phys. Pol. A* 131 (3) 397.
 6. **Hydroxyapatite Synthesis from Fish Bones: Atlantic Salmon (Salmon Salar)** 2017, *Acta Phys. Pol. A* 131 (3) 400.
 7. **Fabrication of naturel pumice/hydroxyapatite composite for biomedical engineering**. 2016, *Biomed. Eng. Online* 15 (1) 81.
-

Conferences

1. **3D Liquid Bioprinting of the PCL / β -TCP 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. **Novel Electrospun Polycaprolactone/Graphene Oxide/Fe₃O₄ Nanocomposites for Biomedical Applications**, Poster Presentation, 13th International Conference on Materials Chemistry (MC 13), Liverpool, UK (10-13 July 2017).
4. **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)
5. **Electrospun Nanocomposite Materials, A Novel Synergy of Polyurethane and Bovine Derived Hydroxyapatite**, Poster Presentation, Applied Nanotechnology and Nanoscience International Conference (ANNIC 2016), Barcelona, Spain (9-11 November 2016)
6. **Novel Production of ZrO₂/PU Nanocomposites via Electrospinning for Soft Tissue Engineering**, Oral Presentation, 28th Symposium and Annual Meeting of the International Society for Ceramics in Medicine, Charlotte, USA (18-21 October 2016)
7. **Investigation of Electrospun Polyurethane (PU) and Bovine Derived Hydroxyapatite (BHA) solution**. 12th Nanoscience and Nanotechnology Conference, Gebze Technical University Kocaeli / TURKEY (03-05 June 2016)
8. **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)
9. **Production of the Egg Cartons with Smart Colorimetric Nano Sensors**, Poster Presentation, 4th International Food R&D Brokerage Event, Izmir/ TURKEY (23-24 May 2016)
10. **Design of the Smart Working Uniform With the Colorimetric Nano Indicators to Detect Presence of the Methane Gas**, Poster Presentation ,UTIB 8th R&D Project Brokerage Event Bursa /TURKEY (12-13 May 2016)
11. **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)
12. **Production of the new bioinspired neuroregeneration structure**. Annual Conference & Expo on Biomaterials (Biomaterials 2016) London, UK (14-16 March 2016)
13. **Production of novel bioceramic ha biomaterials from natural sources**, 8th International Biomechanics Congress, Ankara, Turkey (19-23 March 2016)
14. **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)

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)
- Google Developer Challenge Scholarship by Google and Udacity.

Projects and Certificates

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

Computer Skills

- CLC Sequence Viewer
 - Cura 3D printing software
 - macOS, iOS, MS Windows, MS Office, Adobe Acrobat Pro DC
 - OLYMPUS analySIS FIVE, ImageJ
 - Adobe Photoshop CC
 - Origin Data analysis and graphics software
 - Web design of the [Adv. Nanomat.Research Lab.](#) and [nanolabmarmara.com](#)
-

Device Skills

- Hyrel Engine, SR 3D Printer
- Ultimaker 2+ 3D Printer
- Electrospinning, EHDA and Gyration Devices
- Scanning Electron Microscope (Zeiss EVO MA 10)
- UV Spectrophotometer
- Optical and Fluorescent Microscope
- Leica TCS SP5 Confocal Microscope
- Real Time PCR
- SurPASS 3 Solid Surface Analyzer (Anton Paar)
- Spectrophotometer
- Tensile Testing Machine (Instron)
- X-Ray Diffractometer (XRD)
- Fourier Transform Infrared Spectroscopy (FTIR)

References

Prof. Mohan Edirisinghe

Bonfield Chair of Biomaterials
Department of Mechanical Engineering
Faculty of Engineering Science
University College London
409 Roberts Building, Torrington Place, London, UK
Tel: 00442076793942 E-mail: m.edirisinghe@ucl.ac.uk

Assoc. Prof. Oguzhan GUNDUZ

Marmara University, Technology Faculty,
Goztepe Campus Kadikoy/ISTANBUL
Tel: +(90) 507 126 66 02 E-mail: oguzhan@marmara.edu.tr

Assist. Prof. Nazmi Ekren

Department of Electrical-Electronics Engineering
Marmara University, Technology Faculty,
Goztepe Campus Kadikoy/ISTANBUL
Tel: +(90) 336 57 70 / 1266
E-mail: nazmiekren@marmara.edu.tr