

Mehmet Onur AYDOGDU

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- 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, History, Volleyball

Education

February 2016–Present **M.Sc. Student** Metallurgical and Materials Engineering
Institute of Science and Technology, Marmara University, Istanbul, Turkey

February 2016 **B.Sc. Degree** Department of Biology,
Faculty of Arts and Sciences Marmara University

2009 Besiktas Ataturk Anatolian High School

Working Experience

April 2015 - Present **Research asistant, Assistant of Dr. GUNDUZ**
Advanced Nanomaterials Research Laboratory
Metallurgical and Materials Science
Marmara University

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

- After forcing Hematopoietic stem cells (HSCs) with specific medicines to leave bone marrow and mostly join to circulating system, due to HSCs's ability to attach cell surface of monoclonal antibodies, therefore consisting a different antigenic responses. This technique allows us to count the quantity of HSCs .with CD-34 Marker in the blood examples harvested from human circulating system. Progressive freezing and storing those examples for significant amount of time with the presence of liquid nitrogen, melting the frozen HSCs examples in water-baths and as the last step of Hematopoietic Stem Cell Transplantation when needed.
- Clinical microbiological applications with bacteria, microorganism, tissue and blood cultures.
- Immunohematological and serological tests.
- 1 month extended internship as requested by the staff.

Publications and Conferences

- **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)
- **Electrospun Polycaprolactone (PCL)/Ethyl Cellulose (EC) /Collagen Nanofibrous Scaffolds for Cardiovascular Tissue Engineering** Poster Presentation, 28th Symposium and Annual Meeting of the International Society for Ceramics in Medicine, Charlotte, USA (18-21 October 2016)
- **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)
- **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)
- **Production of the Egg Cartons with Smart Colorimetric Nano Sensors**, Poster Presentation, 4th International Food R&D Brookerage Event, Izmir/ TURKEY (23-24 May 2016)
- **Design of the Smart Working Uniform With the Colorimetric Nano Indicators to Detect Presence of the Methane Gas**, UTIB 8th R&D Project Brookerage Event (12-13 May 2016) Bursa /TURKEY
- **Production of the new bioinspired neuroregeneration structure**. Annual Conference & Expo on Biomaterials (Biomaterials 2016) London, UK (14-16 March 2016)
- **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)
- **Tissue Engineering Scaffolds from La₂O₃ –Hydroxyapatite\Boron Glass Composites** 2016 (in Press)

Projects and Certificates

- 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.
- Endnote Bibliography Program Training, participation certificate. 2016 Feb

Computer Skills

- Proficient with graphic designing, hardware and software maintenance, software based security measurements on all levels.
- CLC Sequence Viewer
- MS Windows, MS Office, Adobe Acrobat Pro DC
- OLYMPUS analySIS FIVE
- ImageJ
- Adobe Photoshop CC
- Origin Data analysis and graphics software
- Google Web Designer
- Web design of [Advanced Nanomaterials Research Laboratory Web Page](#)

Device Skills

- Electrospinning Device
- EHDA Device
- Optical and Fluorescent Microscope
- Leica TCS SP5 Confocal Microscope
- Real Time PCR
- Spectrophotometer
- X-Ray Diffractometer (XRD)
- Fourier Transform Infrared Spectroscopy (FTIR)
- Scanning Electron Microscope

References

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