

NURSU ERDOĞAN



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SKILLS

- Turkish- Native
- English-Fluent
- Cell Culture
- Solid Phase Peptide Synthesis
- Nanoparticle Synthesis
- Electrospinning
- Material Characterizations Techniques

RESEARCH INTEREST

- Regenerative Medicine
- Nanomedicine
- Biomaterials
- Electrospun nanofibers
- Controlled Drug Delivery
- Tissue Engineering Applications
- Diagnostic and Therapeutic Approaches for Neurodegenerative and Cardiovascular diseases

EDUCATION

- University of Pavia- *Bioengineering, Bioinformatics & Health Technologies* - PhD (2023-ongoing)
- İzmir Katip Çelebi University- *Biomedical Engineering –MSc-* (2018- 2021)
- İzmir Katip Çelebi University- *Biomedical Engineering- BSc-* (2013- 2018)
- Oulu University-Finland /*Erasmus Mobility Program* (01.2017-05.2017)

EXPERIENCE

- Mediracer /Oulu-Finland/*Internship* (06.2017-07.2017)
- SAYAN Orthopaedics /İzmir-Turkey/*Internship*(07.2016-08.2016)
- Koek Biotechnology/İzmir-Turkey/*Voluntarily Internship* (02.2016-06.2016)

PROJECTS & FUNDING

- Early-stage researcher- PhD fellow under Marie Skłodowska-Curie Actions Doctoral Networks(2023-2026)- NanoReMedi project
- Design of Mesoporous Silica Nanocarrier Integrated Synthetic Dura Grafts and Evaluation of Their *In Vitro* Performances / **İKÇÜ- Scientific Research Projects Coordinatorship**
- *Development Of Nanoparticle Integrated Local Drug Delivery System For Tissue Regeneration (TÜBİTAK- 2210-C National MSc/MA Scholarship Program in the Priority Fields in Science and Technology /2019-2.Term)(Master's Thesis)*
- *Preparation of Local Drug Delivery Systems For Tissue Regeneration/İKÇÜ-Scientific Research Projects Coordinatorship*
- Effect Of Surface Modification with Various Number of Glutamic Acid Sequences On Nanofibers' Biomineralization, Cell Adherence and Viability /**TÜBİTAK 2209-A Research Project Support Programme for Undergraduate Students /2016- 1.Term (Undergraduate Thesis)**

ACADEMIC STUDIES

- Pamukçu,A.**Erdogan,N.** Şen Karaman, D. (2022) Polyethylene imine-grafted mesoporous silica nanocarriers markedly enhance the bactericidal effect of curcumin against S. aureus biofilm. Journal of Biomedical Materials Research Part B Applied Biomaterials. [DOI:10.1002/jbm.b.35108](https://doi.org/10.1002/jbm.b.35108)
- Şen Karaman, D. & **Erdogan, N.** (2021). Preparation of Curcumin Spin-coated Polycaprolactone Nanofiber Wound Dresses and Investigation of *in vitro* Efficacy. European Journal of Science and Technology, (25), 715-720. [DOI: 10.31590/ejosat.939464](https://doi.org/10.31590/ejosat.939464)
- Development Of Local Drug Delivery System For Tissue Regeneration, Euroasia Summit 1st INTERNATIONAL APPLIED SCIENCES CONGRESS /Oral Presentation
- Şen Karaman, D. Karakaplan, M.B.& **Erdogan, N.**(2021)Augmenting the Bacteriostatic Properties of Titanium Pedicle Screws with Zinc Oxide and Silica Nanoparticles Enriched Polylactic Acid Coatings, JOM: the journal of the Minerals, Metals & Materials Society 73(12), [DOI: 10.1007/s11837-021-04922-5](https://doi.org/10.1007/s11837-021-04922-5)
- Coskun I., **Erdogan N.**, Karaman Şen D., Karaman O.: Preparation of Serum Albumin Loaded Injectable Silica-Gel Matrix. Medical Technologies Congress (TIPTEKNO'19), October 3-5 2019, Kuşadası, Turkey, IEEE Xplore Digital Library DOI: [10.1109/TIPTEKNO.2019.8895116](https://doi.org/10.1109/TIPTEKNO.2019.8895116).
- Onak G., **Erdoğan N.**, Karaman O. Effect of Different Number of Glutamic Acid Containing Peptide on Biomineralization and Cell Proliferation. Medical Technologies Congress (TIPTEKNO'18), November 8-10 2018, Gazi Magosa, KKTC (Poster Presentation)- IEEE Xplore Digital Library DOI: [10.1109/TIPTEKNO.2018.8596830](https://doi.org/10.1109/TIPTEKNO.2018.8596830)
- Onak G., Tatar A.G., Bilgili H.K., **Erdoğan N.**, Karaman O., Sıralı polikaprolakton nanofiberlerin biyomineralizasyonu arttırmak için farklı glutamic asit içeren peptitler ile yüzey modifikasyonu, 22nd Biomedical Science and Technology Symposium (BIOMED 2017), May , 12-14 2017, Ankara, Turkey (Poster Presentation)