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International Researcher IDs

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Education Information

Doctorate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Materials Science and Nanotechnology, Turkey 2012 - 2017

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biochemistry, Turkey 2011 - 2012

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, Turkey 2005 - 2011

Research Areas

Medicine, Fundamental Medical Sciences, Molecular Biology and Genetics, Neurobiology

Academic Titles / Tasks

Lecturer PhD, Hacettepe University, Nörolojik Bilimler ve Psikiyatri Enstitüsü, Nörolojik ve Psikolojik Temel Bilimler A.B.D., 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Vesicular HMGB1 release from neurons stressed with spreading depolarization enables confined inflammatory signaling to astrocytes**
Kaya Z., Belder N., Sever-Bahcekapili M., Donmez-Demir B., Erdener Ş. E., Bozbeyoglu N., Bagci C., Eren-Kocak E., Yemisci M., Karatas H., et al.
Journal of Neuroinflammation, vol.20, no.1, 2023 (SCI-Expanded)
- II. **Reduced folate carrier 1 is present in retinal microvessels and crucial for the inner blood retinal barrier integrity**
Gurler G., BELDER N., BEKER M. Ç., SEVER BAHÇEKAPILI M., Uruk G., Kilic E., YEMİŞÇİ ÖZKAN M.
Fluids and Barriers of the CNS, vol.20, no.1, 2023 (SCI-Expanded)
- III. **Supramolecular presentation of bioinstructive peptides on soft multilayered nanobiomaterials stimulates neurite outgrowth**

Lopes M., Torrado M., Barth D., Santos S. D., Sever-Bahcekapili M., Tekinay A. B., Guler M. O., Cleymand F., Pêgo A. P., Borges J., et al.

Biomaterials Science, vol.11, no.14, pp.5012-5024, 2023 (SCI-Expanded)

- IV. **Overview of extracellular vesicle characterization techniques and introduction to combined reflectance and fluorescence confocal microscopy to distinguish extracellular vesicle subpopulations**
Bağcı C., Sever-Bahcekapili M., Belder N., Bennett A. P. S., Erdener Ş. E., Dalkara T.
Neurophotonics, vol.9, no.2, 2022 (SCI-Expanded)
- V. **Doxycycline alleviates acute traumatic brain injury by suppressing neuroinflammation and apoptosis in a mouse model**
Marjani S., Zirh S., Sever-Bahcekapili M., Cakir-Aktas C., Muftuoglu S. F., Mut M.
JOURNAL OF NEUROIMMUNOLOGY, vol.359, 2021 (SCI-Expanded)
- VI. **Neuroactive Peptide Nanofibers for Regeneration of Spinal Cord after Injury.**
Sever-Bahcekapili M., Yilmaz C., Demirel A., Kilinc M., Dogan I., Caglar Y., Guler M., Tekinay A.
Macromolecular bioscience, vol.21, 2021 (SCI-Expanded)
- VII. **Tenascin-C derived signaling induces neuronal differentiation in a three-dimensional peptide nanofiber gel.**
Sever M., Gunay G., Guler M., Tekinay A.
Biomaterials science, vol.6, pp.1859-1868, 2018 (SCI-Expanded)
- VIII. **Self-assembled peptide nanostructures and their gels for regenerative medicine applications**
Sever M., Tansik G., Arslan E., Yergoz F., Ozkan A. D., Tekinay A. B., Guler M. O.
SELF-ASSEMBLING BIOMATERIALS: MOLECULAR DESIGN, CHARACTERIZATION AND APPLICATION IN BIOLOGY AND MEDICINE, pp.455-473, 2018 (SCI-Expanded)
- IX. **Three-Dimensional Laminin Mimetic Peptide Nanofiber Gels for In Vitro Neural Differentiation**
Gunay G., Sever M., Tekinay A. B., Guler M. O.
BIOTECHNOLOGY JOURNAL, vol.12, no.12, 2017 (SCI-Expanded)
- X. **Regenerative effects of peptide nanofibers in an experimental model of Parkinson's disease.**
Sever M., Turkyilmaz M., Sevinc C., Cakir A., Ocalan B., Cansev M., Guler M., Tekinay A.
Acta biomaterialia, vol.46, pp.79-90, 2016 (SCI-Expanded)
- XI. **Sciatic nerve regeneration induced by glycosaminoglycan and laminin mimetic peptide nanofiber gels**
Mammadov B., Sever M., Gecer M., Zor F., Ozturk S., Akgun H., Ulas U. H., Orhan Z., Guler M. O., Tekinay A. B.
RSC ADVANCES, vol.6, no.112, pp.110535-110547, 2016 (SCI-Expanded)
- XII. **Alteration of enzyme activities and kinetic properties of GST and NQO1 with naturally occurring phenolic compounds**
Karakurt S., Sever M., Celebioglu H. U., ADALI O.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.40, no.3, pp.251-257, 2015 (SCI-Expanded)
- XIII. **Tenascin-C mimetic Peptide nanofibers direct stem cell differentiation to osteogenic lineage.**
Sever M., Mammadov B., Guler M., Tekinay A.
Biomacromolecules, vol.15, pp.4480-7, 2014 (SCI-Expanded)
- XIV. **Neural differentiation on synthetic scaffold materials**
Mammadov B., Sever M., Guler M. O., Tekinay A. B.
BIOMATERIALS SCIENCE, vol.1, no.11, pp.1119-1137, 2013 (SCI-Expanded)

Articles Published in Other Journals

I. Interactions Between Cells and Nanostructured Biomaterials

Sever Bahçekapılı M., Tansik G., Guler M. O., Tekinay A. B.

Türkiye Klinikleri Medical Oncology-Special Topics, vol.8, no.2, pp.29-34, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Bioactive Nanomaterials for Neural Engineering**
Sever Bahçekapılı M., Uyan İ., Tekinay A. B., Guler M. O.
in: Neural Engineering, Lijie Grace Zhang, David L. Kaplan, Editor, John Wiley & Sons, West Sussex, UK , Basel, pp.181-206, 2016
- II. **Nanomaterials for neural regeneration**
Sever Bahçekapılı M., Mammadov B., Gecer M., Güler M. O., Tekinay A. B.
in: Therapeutic Nanomaterials, Ayse B. Tekinay, Mustafa O. Guler, Editor, John Wiley & Sons, West Sussex, UK , New-Jersey, pp.33-58, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **İndirgenmiş folat taşıyıcısı 1 kan-beyin bariyeri bütünlüğünü düzenlemektedir**
Gürler G., Soylu K. O., SEVER BAHÇEKAPILI M., BELDER N., KARATAŞ KURŞUN H., Bolbos R., Wiart M., Chauveau F., YEMİŞCİ ÖZKAN M.
20. Ulusal Sinirbilim Kongresi, Turkey, 19 October 2022
- II. **MODULATING REDUCED FOLATE CARRIER 1 GENE EXPRESSION CHANGES BLOOD-RETINA BARRIER IN HEALTHY AND ISCHEMIC MICE RETINA**
Gürler G., BELDER N., Beker M., SEVER BAHÇEKAPILI M., Uruk G., KILIÇ E., YEMİŞCİ ÖZKAN M.
FENS Forum 2022, Paris, France, 09 July 2022
- III. **Reduced Folate Carrier-1 is expressed in cerebral pericytes and might have a role in ischemia**
Gürler G., BELDER N., SEVER BAHÇEKAPILI M., Uruk G., KARATAŞ KURŞUN H., YEMİŞCİ ÖZKAN M.
BRAIN & BRAIN PET 2022, Glasgow, England, 29 May 2022, pp.105
- IV. **Biofunctionalization of Polymeric Nerve Guidance Conduits with Peptide Nanofibers for Sciatic Nerve Regeneration**
Sever Bahçekapılı M., Mammadov B., Gecer M., Guler M. O., Tekinay A. B.
ASCB Annual Meeting, California, United States Of America, 12 - 16 December 2015, vol.26, pp.5731
- V. **Bone regeneration by bioactive peptide nanofibers**
Tansik G., Sever Bahçekapılı M., Beter M., Guler M. O., Tekinay A. B.
ASCB Annual Meeting, California, United States Of America, 12 - 16 December 2015, vol.26, pp.5201-5202
- VI. **Tenascin-C mimetic peptide nanofibers direct in vitro differentiation of stem cells to osteogenic lineage**
Sever M., Mammadov B., Tekinay A. B., Guler M. O.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.236
- VII. **Modulation of protein and mRNA expressions of rat liver vitamin D3 metabolizing CYP27B1 by o-coumaric acid**
ADALI O., Sever M., Karakurt S., Sen A.
38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Saint Peter, Guernsey And Alderney, 6 - 11 July 2013, vol.280, pp.174-175

Metrics

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