

## Lect. PhD MELİKE SEVER BAHÇEKAPILI

### Personal Information

Office Phone: [+90 312 305 2130](tel:+903123052130)

Fax Phone: [+90 312 311 3973](tel:+903123113973)

Email: [melikesever@hacettepe.edu.tr](mailto:melikesever@hacettepe.edu.tr)

Web: <https://avesis.hacettepe.edu.tr/melikesever>

Address: Hacettepe Üniversitesi, Tıp Fakültesi Binası, Asma Kat, Nörolojik Bilimler ve Psikiyatri Enstitüsü, Sıhhiye, Ankara

### 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

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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, pp.577672, 2021 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)

- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Interactions Between Cells and Nanostructured Biomaterials**  
Sever Bahçekapılı M., Tansik G., Guler M. O. , Tekinay A. B.  
Turkiye Klinikleri Medical Oncology-Special Topics, vol.8, no.2, pp.29-34, 2015 (Other Refereed National Journals)

## 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. **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
- II. **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
- III. **Tenascin-C mimetic peptide nanofibers direct in vitro differentiation of stem cells to osteogenic**

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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

**IV. 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

**Citations**

Total Citations (WOS):65

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