

## Lect. SARA BANU AKKAŞ

### Personal Information

Email: bakkas@metu.edu.tr

### Education Information

Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 2003 - 2009

Post Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 2001 - 2003

Under Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 1998 - 2001

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, The Effect of Ecotoxicants on the Aquatic Food Web and Prey-Predator Relationships, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2009

Post Graduate, Molecular Investigation of the Effects of Antioxidants on Rat Brain Tissues, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2003

### Academic Titles / Tasks

Expert, Middle East Technical University, Graduate School of Natural and Applied Sciences, 2010 - Continues

Research Assistant, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoloji (YI) (Tezli), 2001 - 2008

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

- **Ionizing Radiation Induces Structural and Functional Damage on the Molecules of Rat Brain Homogenate Membranes: A Fourier Transform Infrared (FT-IR) Spectroscopic Study**  
Demir P., AKKAŞ S. B. , Severcan M., Zorlu F., Severcan F.  
APPLIED SPECTROSCOPY, vol.69, pp.154-164, 2015 (Journal Indexed in SCI)
- **Impacts of salinity and fish-exuded kairomone on the survival and macromolecular profile of Daphnia pulex**  
Bezirci G., AKKAŞ S. B. , Rinke K., YILDIRIM F., Kalaylioglu Z., Severcan F., BEKLİOĞLU M.  
ECOTOXICOLOGY, vol.21, pp.601-614, 2012 (Journal Indexed in SCI)
- **Toward a protein profile of the zooplankton Daphnia pulex exposed to the pesticide cypermethrin, using ATR-FTIR spectroscopy as a novel method**  
AKKAŞ S. B. , Severcan M., BEKLİOĞLU M., Severcan F.  
AMINO ACIDS, vol.41, 2011 (Journal Indexed in SCI)

- **Effects of 4-nonylphenol, fish predation and food availability on survival and life history traits of *Daphnia magna* straus**  
BEKLİOĞLU M., AKKAŞ S. B. , Ozcan H. E. , Bezirci G., Togan I.  
ECOTOXICOLOGY, vol.19, pp.901-910, 2010 (Journal Indexed in SCI)
- **Molecular approach to the chemical characterization of fish-exuded kairomone: a Fourier transform infrared spectroscopic study**  
AKKAŞ S. B. , Kepenek A. O. , BEKLİOĞLU M., Severcan F.  
AQUATIC SCIENCES, vol.72, pp.71-83, 2010 (Journal Indexed in SCI)
- **Melatonin affects the order, dynamics and hydration of brain membrane lipids**  
Akkas S. B. , Inci S., Zorlu F., Severcan F.  
JOURNAL OF MOLECULAR STRUCTURE, vol.834, pp.207-215, 2007 (Journal Indexed in SCI)
- **Effects of lipoic acid supplementation on rat brain tissue: An FTIR spectroscopic and neural network study**  
Akkas S. B. , Severcan M., Yilmaz O., Severcan F.  
FOOD CHEMISTRY, vol.105, pp.1281-1288, 2007 (Journal Indexed in SCI)

### Refereed Congress / Symposium Publications in Proceedings

- **The effect of lipoic acid and vitamin E on rat brain: An FTIR spectroscopic approach**  
Akkas S., Yilmaz O., Severcan F.  
49th Annual Meeting of the Biophysical-Society, California, United States Of America, 12 - 16 February 2005, vol.88
- **An FTIR investigation of the effect of radiation and the possible protective effect of melatonin on rat brain crude membrane**  
Akkas S., Kok F., Demircioglu F., Inci S., Zorlu F., Severcan F.  
49th Annual Meeting of the Biophysical-Society, California, United States Of America, 12 - 16 February 2005, vol.88
- **An FTIR investigation of the effects of melatonin on rat brain crude membrane**  
Akkas S., Zorlu F., Severcan F.  
48th Annual Meeting of the Biophysical Society, Maryland, United States Of America, 14 - 18 February 2004, vol.86

### Supported Projects

Akkaş S. B. , Eryılmaz A., Şentürk E., Koç İ., Demircan H. Ö. , İşler Baykal I., H2020 Project, StART: Science through ART, 2019 - 2019

### Citations

Total Citations (WOS):151

h-index (WOS):6