

Prof. FERİDE SEVERCAN

Personal Information

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Advising Theses

- SEVERCAN F., Biophysical characterization and diagnosis of obesity from adipose tissue by fourier transform infrared spectroscopy and imaging, Doctorate, F.Küçük(Student), 2017
- SEVERCAN F., Elucidating the patterns in mid-winter waterbird surveys by using climate, lake water level fluctuations and macrophyte records, Postgraduate, K.Badem(Student), 2017
- SEVERCAN F., Investigation of the lipid metabolic changes induced by novel alpha tocopherol analog (TC6OH) in luminal a type breast cancer cells, Doctorate, S.Gök(Student), 2017
- SEVERCAN F., Effects of novel compound derived from vitamin e on prostate cancer cell line, Doctorate, N.Ergen(Student), 2016
- SEVERCAN F., Biophysical characterization of proteins in solution and human fluids for cancer diagnosis applications using fourier transform infrared spectroscopy, Doctorate, S.Abbas(Student), 2016
- SEVERCAN F., BANERJEE S., Molecular characterization of the effects of valdecoxib on colon cancer cell lines (ht29 & sw620) using ATR-FTIR spectroscopy, Postgraduate, A.İnan(Student), 2014
- SEVERCAN F., Determination of inbred obese mouse adipose tissue lipid profiles by high performance liquid chromatography, Postgraduate, T.Başer(Student), 2013
- SEVERCAN F., Attenuated total reflectance fourier transform infrared spectroscopy of fluid systems : case study applications to diagnosis and screening in biomedical and food areas, Postgraduate, S.Gök(Student), 2013
- SEVERCAN F., Characterization and identification of human mesenchymal stem cells at molecular level, Doctorate, C.Aksoy(Student), 2012
- SEVERCAN F., BANERJEE S., Investigation of drug-related changes on bone tissues of rat animal models in healthy and disease states, Doctorate, Ş.Garip(Student), 2012
- SEVERCAN F., BANERJEE S., Macromolecular characterization of adipose tissues in inbred obese mouse models, Postgraduate, İ.Şen(Student), 2012
- SEVERCAN F., Characterization of skeletal muscle lipids in obese mice lines, Postgraduate, E.Aras(Student), 2012
- SEVERCAN F., Structural and functional investigation of the interaction of agomelatine with model membranes, Postgraduate, S.Ergün(Student), 2012
- SEVERCAN F., The effects of streptozotocin induced-diabetes on rat testes and the recovery role of vitamin c, Postgraduate, D.Güldağ(Student), 2012
- SEVERCAN F., Study of bone characteristics and muscle quality in metabolic disorders, Doctorate, Ö.Bozkurt(Student), 2012
- SEVERCAN F., The effects of radioprotectant amifostine on irradiated rat brain and liver tissues, Doctorate, G.Çakmak(Student), 2010
- SEVERCAN F., Interactions of cholesterol reducing agent simvastatin with charged phospholipid model membranes, Postgraduate, E.Sarışık(Student), 2010
- SEVERCAN F., The effects of selenium on stz-induced diabetic rat kidney plasma membrane, Postgraduate, R.Gurbanov(Student), 2010
- SEVERCAN F., Detection of bladder tumor recurrence by fourier transform infrared spectroscopy as a novel method, Postgraduate, Ö.Zelal(Student), 2009
- SEVERCAN F., Molecular investigation of ptz-induced epileptic activities in rat brain cell membranes and the effects of vigabatrin, Doctorate, S.Görgülü(Student), 2009

SEVERCAN F., Interactions of cholesterol reducing agent simvastatin with phospholipid model membranes, Postgraduate, M.Koçak(Student), 2007

SEVERCAN F., The molecular investigation of the effects of simvastatin, a cholesterol reducing drug, on different rat skeletal muscle tissues, Postgraduate, N.Şimşek(Student), 2007

SEVERCAN F., The effect of diabetes on rat skeletal muscle tissues at molecular level, Postgraduate, Ö.Bozkurt(Student), 2006

SEVERCAN F., Effects of hydrogen peroxide bleaching on human dentin and enamel microstructure and function, Postgraduate, K.Gökdoğan(Student), 2005

SEVERCAN F., The characterization of bacteria with Fourier Transform Infrared (FTIR) spectroscopy, Postgraduate, Ş.Garip(Student), 2005

SEVERCAN F., Preliminary approach for the determination of fish exuded kairomone using fourier transform infrared spectroscopy, Postgraduate, A.Özge(Student), 2005

SEVERCAN F., Expression, purification and functional analysis of adenovirus type 5 e4 orf3 protein, Postgraduate, E.Koyuncu(Student), 2004

SEVERCAN F., Biophysical investigation of the effects of antioxidants on normal and diabetic rat bone tissues at molecular level, Doctorate, H.Boyar(Student), 2004

SEVERCAN F., Molecular investigation of the effects of antioxidants on rat brain tissues, Postgraduate, S.Banu(Student), 2003

SEVERCAN F., Molecular approach with Fourier transform infrared spectroscopy to different pathological systems (diabetes mellitus and arteriovenous malformation) with various treatments, Doctorate, N.Toyran(Student), 2003

SEVERCAN F., Infrared spectroscopic study of diabetic rat heart crude membranes., Postgraduate, N.Kaptan(Student), 2002

SEVERCAN F., Spectroscopic investigation of vitamin D3-melittin-model membrane interaction, Postgraduate, S.Aksu(Student), 2002

SEVERCAN F., The effects of gamma irradiation on hazelnut tissue at molecular level by fourier transform infrared spectroscopy, Postgraduate, A.Doğan(Student), 2001

SEVERCAN F., Construction and analysis of a soluble version of the membrane-attached cytochrome Cy in Rhodobacter capsulatus, Postgraduate, Y.Öztürk(Student), 2001

SEVERCAN F., Molecular dynamics of pig citrate synthase, Postgraduate, Ö.Ünver(Student), 2000

SEVERCAN F., Interaction of gramicidin S peptide with dipalmitoylphosphatidylcholine (DPPC) model membrane and the effect of vitamin D2 steroid: An FT-IR and thermodynamics study, Postgraduate, M.Khamies(Student), 1999

SEVERCAN F., The Effect of divalent ions on antioxidant-phospholipid model membrane interactions, Postgraduate, N.Toyran(Student), 1999

SEVERCAN F., Spectroscopic studies of melittin in solution and in lipid bilayers., Postgraduate, H.Okan(Student), 1998

SEVERCAN F., The Effect of vitamin D2 on phospholipid model membranes and protein-lipid interactions, Postgraduate, F.Eker(Student), 1997

SEVERCAN F., Effect of metal ions on nucleic acid protein (melittin) and drug (tamoxifen) phospholipid model membrane interactions, Postgraduate, E.Süleymanoğlu(Student), 1995

SEVERCAN F., Interaction of vitamin E with cholesterol-containing phospholipid model membranes: an FTIR study, Postgraduate, Ü.Baykal(Student), 1995

SEVERCAN F., Interaction of estrogen and tamoxifen with phospholipid model membranes: an ftir study., Postgraduate, H.Boyar(Student), 1995

Published journal articles indexed by SCI, SSCI, and AHCI

I. Strain and Depot-specific Differences in Adipose Tissues of Obese BFMI Mice

Dogan A., Sen I., Severcan M., Brockmann G., Severcan F.
In Vivo, vol.37, no.4, pp.1672-1679, 2023 (SCI-Expanded)

II. The recovery effect of Vitamin C on structural alterations due to Streptozotocin-Induced diabetes in rat testicular tissues

KÜÇÜK BALOĞLU F., Guldag Tas D., Yilmaz O., Severcan F.

Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.288, 2023 (SCI-Expanded)

- III. **Rapid diagnosis of malignant pleural mesothelioma and its discrimination from lung cancer and benign exudative effusions using blood serum**
Yonar D., Severcan M., Gurbanov R., Sandal A., Yilmaz U., Emri S., Severcan F.
Biochimica et Biophysica Acta - Molecular Basis of Disease, vol.1868, no.10, 2022 (SCI-Expanded)
- IV. **The structural effects of Vitamin A deficiency on biological macromolecules due to ethanol consumption and withdrawal: An FTIR study with chemometrics**
ELİBOL B., Severcan M., Jakubowska-Dogru E., DURSUN İ., SEVERCAN F.
JOURNAL OF BIOPHOTONICS, vol.15, no.7, 2022 (SCI-Expanded)
- V. **Biomolecular changes and subsequent time-dependent recovery in hippocampal tissue after experimental mild traumatic brain injury**
Ustaoglu S. G., Ali M. H. M., Rakib F., Blezer E. L. A., Van Heijningen C. L., Dijkhuizen R. M., Severcan F.
Scientific Reports, vol.11, no.1, 2021 (SCI-Expanded)
- VI. **Vitamin E Derivative with Modified Side Chain Induced Apoptosis by Modulating the Cellular Lipids and Membrane Dynamics in MCF7 Cells**
Gok S., Kuzmenko O., Babinskyi A., Severcan F.
CELL BIOCHEMISTRY AND BIOPHYSICS, vol.79, no.2, pp.271-287, 2021 (SCI-Expanded)
- VII. **Discrimination of heavy metal acclimated environmental strains by chemometric analysis of FTIR spectra**
Kepenek E. S., Severcan M., GÖZEN A. G., SEVERCAN F.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.202, 2020 (SCI-Expanded)
- VIII. **Methylation, sugar puckering and Z-form status of DNA from a heavy metal-acclimated freshwater *Gordonia* sp.**
Gurbanov R., Tuncer S., Mingu S., Severcan F., Gözen A. G.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.198, 2019 (SCI-Expanded)
- IX. **The effects of radioprotectant and potential antioxidant agent amifostine on the structure and dynamics of DPPC and DPPG liposomes**
Arslan G. C., SEVERCAN F.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES, vol.1861, no.6, pp.1240-1251, 2019 (SCI-Expanded)
- X. **Molecular characterization of acutely and gradually heavy metal acclimated aquatic bacteria by FTIR spectroscopy**
Kepenek E. S., GÖZEN A. G., Severcan F.
JOURNAL OF BIOPHOTONICS, vol.12, no.5, 2019 (SCI-Expanded)
- XI. **Interaction of the cholesterol reducing agent simvastatin with zwitterionic DPPC and charged DPPG phospholipid membranes**
Sariisik E., KOÇAK M., Baloglu F. K., Severcan F.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES, vol.1861, no.4, pp.810-818, 2019 (SCI-Expanded)
- XII. **Diagnosis of malignant pleural mesothelioma from pleural fluid by Fourier transform-infrared spectroscopy coupled with chemometrics**
Abbas S., Ozek N. S., Emri S., KÖKSAL D., Severcan M., Severcan F.
JOURNAL OF BIOMEDICAL OPTICS, vol.23, no.10, 2018 (SCI-Expanded)
- XIII. **Side-Effects of Convulsive Seizures and Anti-Seizure Therapy on Bone in a Rat Model of Epilepsy**
Ustaoglu S. G., EVİS Z., İLBAY G., Boskey A. L., Severcan F.
APPLIED SPECTROSCOPY, vol.72, no.5, pp.689-705, 2018 (SCI-Expanded)
- XIV. **Aspects of silver tolerance in bacteria: infrared spectral changes and epigenetic clues**
Gurbanov R., Ozek N. S., Tunçer S., Severcan F., Gözen A. G.
JOURNAL OF BIOPHOTONICS, vol.11, 2018 (SCI-Expanded)
- XV. **Relapsing-Remitting Multiple Sclerosis diagnosis from cerebrospinal fluids via Fourier transform infrared spectroscopy coupled with multivariate analysis**
Yonar D., Ocek L., Tiftikcioglu B. I., Zorlu Y., Severcan F.

SCIENTIFIC REPORTS, vol.8, 2018 (SCI-Expanded)

- XVI. **Rapid classification of heavy metal-exposed freshwater bacteria by infrared spectroscopy coupled with chemometrics using supervised method**
Gurbanov R., Gözen A. G., Severcan F.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.189, pp.282-290, 2018 (SCI-Expanded)
- XVII. **Triglyceride dependent differentiation of obesity in adipose tissues by FTIR spectroscopy coupled with chemometrics**
Baloglu F. K., BALOĞLU O., Heise S., Brockmann G., Severcan F.
JOURNAL OF BIOPHOTONICS, vol.10, no.10, pp.1345-1355, 2017 (SCI-Expanded)
- XVIII. **Secondary structure and conformational change of mushroom polyphenol oxidase during thermosonication treatment by using FTIR spectroscopy**
Baltacıoğlu H., Bayındır A., Severcan F.
FOOD CHEMISTRY, vol.214, pp.507-514, 2017 (SCI-Expanded)
- XIX. **Valdecoxib Recovers the Lipid Composition, Order and Dynamics in Colon Cancer Cell Lines Independent of COX-2 Expression: An ATR-FTIR Spectroscopy Study.**
Inan G., GOK S., Banerjee S., SEVERCAN F.
Applied spectroscopy, vol.71, pp.105-117, 2017 (SCI-Expanded)
- XX. **Diagnostic Utility of Mesothetin, Osteopontin and Megakaryocyte Potentiation Factor in Turkish Patients with Malignant Mesothelioma**
Emri S., Dikmen G., SARINÇ ULAŞLI S., Esendagli D., Yilmaz U., ŞİMŞEK ÖZEK N., Severcan F., OKUR H., Akbiyik F.
JOURNAL OF THORACIC ONCOLOGY, vol.12, no.1, 2017 (SCI-Expanded)
- XXI. **Differentiation of Chronic and Aggressive Periodontitis by FTIR Spectroscopy**
Ozek N. S., Zeller I., Renaud D. E., Gumus P., NİZAM N., Severcan F., BUDUNELİ N. G., Scott D. A.
JOURNAL OF DENTAL RESEARCH, vol.95, no.13, pp.1472-1478, 2016 (SCI-Expanded)
- XXII. **Early Alterations in Bone Characteristics of Type I Diabetic Rat Femur: A Fourier Transform Infrared (FT-IR) Imaging Study**
Bozkurt O., BİLGİN M. D., EVİS Z., Pleshko N., Severcan F.
APPLIED SPECTROSCOPY, vol.70, no.12, pp.2005-2015, 2016 (SCI-Expanded)
- XXIII. **Bladder cancer diagnosis from bladder wash by Fourier transform infrared spectroscopy as a novel test for tumor recurrence**
Gok S., Aydin O. Z., Sural Y. S., Zorlu F., Bayol U., Severcan F.
JOURNAL OF BIOPHOTONICS, vol.9, no.9, pp.967-975, 2016 (SCI-Expanded)
- XXIV. **Embryo Quality Assessment in in Vitro Fertilization (IVF) using metabolite footprints secreted to human embryo culture media by ATR-FTIR spectroscopy and multivariate analysis**
Garip S., Ceyhan S. T., Korkmaz C., Muge A., Guney E., Bal E., Severcan F.
HUMAN REPRODUCTION, vol.31, pp.227-228, 2016 (SCI-Expanded)
- XXV. **Restoring effect of selenium on the molecular content, structure and fluidity of diabetic rat kidney brush border cell membrane**
Gurbanov R., Bilgin M., Severcan F.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES, vol.1858, no.4, pp.845-854, 2016 (SCI-Expanded)
- XXVI. **Structural effects of simvastatin on liver rate tissue: Fourier transform infrared and Raman microspectroscopic studies**
Garip S., Bayari S. H., Severcan M., Abbas S., Lednev I. K., Severcan F.
JOURNAL OF BIOMEDICAL OPTICS, vol.21, no.2, 2016 (SCI-Expanded)
- XXVII. **Monitoring radiation induced alterations in biological systems, from molecules to tissues, through infrared spectroscopy**
Demir P., Severcan F.
APPLIED SPECTROSCOPY REVIEWS, vol.51, no.10, pp.839-863, 2016 (SCI-Expanded)
- XXVIII. **Structural and functional damages of whole body ionizing radiation on rat brain homogenate membranes and protective effect of amifostine**

- ÇAKMAK G., Severcan M., Zorlu F., Severcan F.
INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, vol.92, no.12, pp.837-848, 2016 (SCI-Expanded)
- XXIX. **Effect of thermal treatment on secondary structure and conformational change of mushroom polyphenol oxidase (PPO) as food quality related enzyme: A FTIR study**
Baltacioglu H., Bayındırlı A., Severcan M., Severcan F.
FOOD CHEMISTRY, vol.187, pp.263-269, 2015 (SCI-Expanded)
- XXX. **Quick Discrimination of Heavy Metal Resistant Bacterial Populations Using Infrared Spectroscopy Coupled with Chemometrics**
Gurbanov R., Ozek N. S., Gözen A. G., Severcan F.
ANALYTICAL CHEMISTRY, vol.87, pp.9653-9661, 2015 (SCI-Expanded)
- XXXI. **Infrared Spectroscopy as a Novel Approach in Differential Diagnosis of Malignant Pleural Mesothelioma from Lung Cancer Using Pleural Fluid**
Abbas S., Ozek N. S., KÖKSAL D., Severcan M., Emri S. A., Severcan F.
JOURNAL OF THORACIC ONCOLOGY, vol.10, no.9, 2015 (SCI-Expanded)
- XXXII. **Differentiation of Mesothelioma from Lung Cancer and Healthy Individuals Using Human Serum by ATR-FTIR Spectroscopy Coupled with Chemometrics**
Emri S. A., Yonar D., SANDAL A., Yilmaz U., Severcan F.
JOURNAL OF THORACIC ONCOLOGY, vol.10, no.9, 2015 (SCI-Expanded)
- XXXIII. **Lipid Profiles of Adipose and Muscle Tissues in Mouse Models of Juvenile Onset of Obesity Without High Fat Diet Induction: A Fourier Transform Infrared (FT-IR) Spectroscopic Study**
Sen I., Bozkurt O., Aras E., Heise S., Brockmann G. A., Severcan F.
APPLIED SPECTROSCOPY, vol.69, no.6, pp.679-688, 2015 (SCI-Expanded)
- XXXIV. **Differentiation of Anatolian honey samples from different botanical origins by ATR-FTIR spectroscopy using multivariate analysis**
Gok S., Severcan M., Goormaghtigh E., KANDEMİR İ., Severcan F.
FOOD CHEMISTRY, vol.170, pp.234-240, 2015 (SCI-Expanded)
- XXXV. **Effect of Molecular Crowding on the Structure and Dynamics of Human Apo and Holo Transferrin using 2D-IR Correlation Spectroscopy**
Abbas S., Severcan F., Haris P. I.
BIOPHYSICAL JOURNAL, vol.108, no.2, 2015 (SCI-Expanded)
- XXXVI. **Phylogeny of cultivated and wild wheat species using ATR-FTIR spectroscopy**
Demir P., ÖNDE S., Severcan F.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.135, pp.757-763, 2015 (SCI-Expanded)
- XXXVII. **Vitamin A deficiency induces structural and functional alterations in the molecular constituents of the rat hippocampus**
Elibol-Can B., Simsek-Ozek N., Severcan F., Severcan M., Jakubowska-Dogru E.
BRITISH JOURNAL OF NUTRITION, vol.113, no.1, pp.45-55, 2015 (SCI-Expanded)
- XXXVIII. **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, no.1, pp.154-164, 2015 (SCI-Expanded)
- XXXIX. **FTIR imaging of structural changes in visceral and subcutaneous adiposity and brown to white adipocyte transdifferentiation**
Baloglu F. K., Garip S., Heise S., Brockmann G., Severcan F.
ANALYST, vol.140, no.7, pp.2205-2214, 2015 (SCI-Expanded)
- XL. **Epileptic seizures induce structural and functional alterations on brain tissue membranes**
Turker S., Severcan M., İLBAY G., SEVERCAN F.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES, vol.1838, no.12, pp.3088-3096, 2014 (SCI-Expanded)
- XLI. **Agomelatine strongly interacts with zwitterionic DPPC and charged DPPG membranes**
Ergun S., Demir P., Uzbay T., SEVERCAN F.

- BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES, vol.1838, no.11, pp.2798-2806, 2014 (SCI-Expanded)
- XLII. **FTIR spectroscopy offers hints towards widespread molecular changes in cobalt-acclimated freshwater bacteria**
Kardaş M., Gözen A. G., Severcan F.
AQUATIC TOXICOLOGY, vol.155, pp.15-23, 2014 (SCI-Expanded)
- XLIII. **Interactions of tamoxifen with distearoyl phosphatidylcholine multilamellar vesicles: FTIR and DSC studies**
Bilge D., ŞAHİN İ., KAZANCI N., SEVERCAN F.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.130, pp.250-256, 2014 (SCI-Expanded)
- XLIV. **Co-doping of hydroxyapatite with zinc and fluoride improves mechanical and biological properties of hydroxyapatite**
Uysal I., Severcan F., TEZCANER A., EVİS Z.
PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL, vol.24, no.4, pp.340-349, 2014 (SCI-Expanded)
- XLV. **Structural investigation of donor age effect on human bone marrow mesenchymal stem cells: FTIR spectroscopy and imaging**
Aksoy C., AERTS KAYA F. S. F., KUŞKONMAZ B. B., Uçkan D., SEVERCAN F.
AGE, vol.36, no.4, 2014 (SCI-Expanded)
- XLVI. **Investigation of Compositional, Structural, and Dynamical Changes of Pentylene-tetrazol-Induced Seizures on a Rat Brain by FT-IR Spectroscopy**
Turker S., İLBAY G., Severcan M., Severcan F.
ANALYTICAL CHEMISTRY, vol.86, no.3, pp.1395-1403, 2014 (SCI-Expanded)
- XLVII. **Structural and functional characterization of simvastatin-induced myotoxicity in different skeletal muscles**
Ozek N. S., Bal I. B., SARA M. Y., Onur R., Severcan F.
BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS, vol.1840, no.1, pp.406-415, 2014 (SCI-Expanded)
- XLVIII. **Concentration-Based Measurement Studies of L-Tryptophan Using Terahertz Time-Domain Spectroscopy (THz-TDS)**
Ozer Z., Gok S., ALTAN H., Severcan F.
APPLIED SPECTROSCOPY, vol.68, no.1, pp.95-100, 2014 (SCI-Expanded)
- XLIX. **Concentration-dependent effect of melatonin on DSPC membrane**
ŞAHİN İ., Bilge D., KAZANCI N., Severcan F.
JOURNAL OF MOLECULAR STRUCTURE, vol.1052, pp.183-188, 2013 (SCI-Expanded)
- L. **Epileptic seizure-induced structural and functional changes in rat femur and tibia bone tissues: a Fourier transform infrared imaging study**
Garip S., ŞAHİN D., Severcan F.
JOURNAL OF BIOMEDICAL OPTICS, vol.18, no.11, 2013 (SCI-Expanded)
- LI. **Characterization by Fourier transform infrared spectroscopy of hydroxyapatite co-doped with zinc and fluoride**
Uysal I., Severcan F., EVİS Z.
CERAMICS INTERNATIONAL, vol.39, no.7, pp.7727-7733, 2013 (SCI-Expanded)
- LII. **Acyl chain length and charge effect on Tamoxifen-lipid model membrane interactions**
Bilge D., KAZANCI N., Severcan F.
JOURNAL OF MOLECULAR STRUCTURE, vol.1040, pp.75-82, 2013 (SCI-Expanded)
- LIII. **Structural and mechanical characteristics of nanohydroxyapatite doped with zinc and chloride**
Uysal I., Severcan F., EVİS Z.
ADVANCES IN APPLIED CERAMICS, vol.112, no.3, pp.149-157, 2013 (SCI-Expanded)
- LIV. **Structural alterations in rat liver proteins due to streptozotocin-induced diabetes and the recovery effect of selenium: Fourier transform infrared microspectroscopy and neural network study**
Bozkurt O., Bayari S. H., Severcan M., Krafft C., Popp J., Severcan F.
JOURNAL OF BIOMEDICAL OPTICS, vol.17, no.7, 2012 (SCI-Expanded)

- LV. Bone Marrow Mesenchymal Stem Cells in Patients with Beta Thalassemia Major: Molecular Analysis with Attenuated Total Reflection-Fourier Transform Infrared Spectroscopy Study as a Novel Method**
Aksoy C., Guliyev A., Kilic E., Uckan D., Severcan F.
STEM CELLS AND DEVELOPMENT, vol.21, no.11, pp.2000-2011, 2012 (SCI-Expanded)
- LVI. Amifostine, a radioprotectant agent, protects rat brain tissue lipids against ionizing radiation induced damage: An FTIR microspectroscopic imaging study**
Cakmak G., Miller L. M., Zorlu F., Severcan F.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.520, no.2, pp.67-73, 2012 (SCI-Expanded)
- LVII. 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. I., Severcan F., BEKLİOĞLU M.
ECOTOXICOLOGY, vol.21, no.2, pp.601-614, 2012 (SCI-Expanded)
- LVIII. Celecoxib reduces fluidity and decreases metastatic potential of colon cancer cell lines irrespective of COX-2 expression**
Sade A., Tuncay S., Cimen I., Severcan F., BANERJEE S.
BIOSCIENCE REPORTS, vol.32, no.1, pp.35-44, 2012 (SCI-Expanded)
- LIX. Biophysical and microbiological study of high hydrostatic pressure inactivation of Bovine Viral Diarrheavirus type 1 on serum**
CEYLAN Ç., Severcan F., ÖZKUL A., Severcan M., Bozoglu F., Taheri N.
VETERINARY MICROBIOLOGY, vol.154, pp.266-271, 2012 (SCI-Expanded)
- LX. Role of Vibrational Spectroscopy in Stem Cell Research**
Aksoy C., Severcan F.
SPECTROSCOPY-AN INTERNATIONAL JOURNAL, vol.27, no.3, pp.167-184, 2012 (SCI-Expanded)
- LXI. The Effects of Short-Term Chronic Ethanol Intoxication and Ethanol Withdrawal on the Molecular Composition of the Rat Hippocampus by FT-IR Spectroscopy**
Elibol-Can B., Jakubowska-Dogru E., Severcan M., Severcan F.
ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH, vol.35, no.11, pp.2050-2062, 2011 (SCI-Expanded)
- LXII. High dose simvastatin administration induces changes in the structure and concentration of liver microsomal membrane proteins**
Ozgun K., Ozek N. S., Severcan M., Severcan F.
AMINO ACIDS, vol.41, 2011 (SCI-Expanded)
- LXIII. 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 (SCI-Expanded)
- LXIV. Investigation of the effects of different epileptic activities on cell membrane proteins reveals diagnostic information**
Turker S., Severcan M., Ilbay G., Severcan F.
AMINO ACIDS, vol.41, 2011 (SCI-Expanded)
- LXV. Screening of Protective Effect of Amifostine on Radiation-Induced Structural and Functional Variations in Rat Liver Microsomal Membranes by FT-IR Spectroscopy**
Cakmak G., Zorlu F., Severcan M., Severcan F.
ANALYTICAL CHEMISTRY, vol.83, no.7, pp.2438-2444, 2011 (SCI-Expanded)
- LXVI. Convulsant agent pentylenetetrazol does not alter the structural and dynamical properties of dipalmitoylphosphatidylcholine model membranes**
Turker S., Wassall S., Stillwell W., Severcan F.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.54, no.2, pp.379-386, 2011 (SCI-Expanded)
- LXVII. Effects of the non-steroidal anti-inflammatory drug celecoxib on cholesterol containing distearoyl phosphatidylcholine membranes**
Sade A., BANERJEE S., Severcan F.
SPECTROSCOPY-BIOMEDICAL APPLICATIONS, vol.25, pp.177-185, 2011 (SCI-Expanded)

- LXVIII. **Structural characterization of recombinant bovine Go alpha by spectroscopy and homology modeling**
MEGA TİBER P., Orun O., Nacar C., Sezerman U. O., Severcan F., Severcan M., Matagne A., KAN B.
SPECTROSCOPY-BIOMEDICAL APPLICATIONS, vol.26, pp.213-229, 2011 (SCI-Expanded)
- LXIX. **Celecoxib-loaded liposomes: effect of cholesterol on encapsulation and in vitro release characteristics**
DENİZ A., Sade A., Severcan F., KESKİN D., TEZCANER A., BANERJEE S.
BIOSCIENCE REPORTS, vol.30, no.5, pp.365-373, 2010 (SCI-Expanded)
- LXX. **FT-IR spectroscopy in diagnosis of diabetes in rat animal model**
SEVERCAN F., Bozkurt O., Gurbanov R., Gorgulu G.
JOURNAL OF BIOPHOTONICS, vol.3, pp.621-631, 2010 (SCI-Expanded)
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