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International Researcher IDs

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Education

Doctorate, Johns Hopkins University, Biochemistry, Cellular And Molecular Biology, United States Of America 2001 - 2009

Undergraduate, Ihsan Dogramaci Bilkent University, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, Turkey 1997 - 2001

Academic Positions

Associate Professor, Istanbul Medipol University, Uluslararası Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2018 - Continues

Assistant Professor, Istanbul Medipol University, Uluslararası Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2015 - Continues

Research Assistant, The Salk Institute For Biological Studies, Laboratory Of Genetics-Gage, 2009 - 2015

Research Assistant, Johns Hopkins University, School Of Medicine, Department Of Cell Biology, 2002 - 2009

Courses

Postgraduate

Makale Kulübü, Postgraduate, 2015 - 2016

Undergraduate

Histoloji ve Embriyoloji-TIP1, Undergraduate, 2015 - 2016

Histoloji ve Embriyoloji-TIP2, Undergraduate, 2015 - 2016

Supervised Theses

Bilal Ersen K., Makrofajların merkezi sinir sisteminin nöral hücreleri üzerindeki etkisinin analizi, Doctorate, F.İLAYDA(Student), 2022

Bilal Ersen K., Miyelinizasyon mekaniğinin floresan görüntüleme yöntemleri ile araştırılması, Postgraduate, Z.ALADAĞ(Student), 2021

Bilal Ersen K., The role of PEA3 proteins in neuroglia connectivity, Postgraduate, K.YURDUSEVEN(Student), 2020

Bilal Ersen K., Miyelin interaktomu: İkili graf tabanlı protein-protein etkileşimli ağlarla multipl skleroz'da hücre-hücre etkileşimlerinin tanımlanması, Postgraduate, E.ÇELİK(Student), 2018

Bilal Ersen K., Santral Sinir Sistemi Miyelinizasyon Dinamiklerinin Kantitatif Analizi, Doctorate, Ş.SEFİL(Student), 2018
Bilal Ersen K., İndüklenmiş pluripotent kök hücre tabanlı multiple skleroz modelinde oligodendrositlere özgü fenotiplerin araştırılması, Postgraduate, B.KURT(Student), 2018

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Combined segmentation and classification based approach to automated analysis of biomedical signals obtained from calcium imaging**
Dursun G., Bijelić D., AYŞİT N., Vatandaşlar B. K., Radenović L., Çapar A., KERMAN B. E., Andjus P. R., Korenić A., ÖZKAYA U.
PLoS ONE, vol.18, no.2 February, 2023 (SCI-Expanded)
- II. **Two phases of macrophages: Inducing maturation and death of oligodendrocytes in vitro co-culture**
Aydınlı F. İ., Er S., KERMAN B. E.
Journal of Neuroscience Methods, vol.382, 2022 (SCI-Expanded)
- III. **Multiple Sclerosis Biomarker Candidates Revealed by Cell-Type-Specific Interactome Analysis**
Yurduseven K., Babal Y. K., Celik E., KERMAN B. E., Kurnaz I. A.
OMICS A Journal of Integrative Biology, vol.26, no.5, pp.305-317, 2022 (SCI-Expanded)
- IV. **Myelin detection in fluorescence microscopy images using machine learning**
ÇİMEN S., Çapar A., Ekinci D. A., AYTEN U. E., KERMAN B. E., Töreyn B. U.
Journal of Neuroscience Methods, vol.346, 2020 (SCI-Expanded)
- V. **Motoneuron expression profiling identifies an association between an axonal splice variant of HDGF-related protein 3 and peripheral myelination**
KERMAN B. E., Genoud S., Vatandaşlar B. K., Denli A. M., Ghosh S. G., Xu X., Yeo G. W., Aimone J. B., Gage F. H.
Journal of Biological Chemistry, vol.295, no.34, pp.12233-12246, 2020 (SCI-Expanded)
- VI. **Species-specific maturation profiles of human, chimpanzee and bonobo neural cells**
Marchetto M. C., Hrvoj-Mihic B., KERMAN B. E., Yu D. X., Vadodaria K. C., Linker S. B., Narvaiza I., Santos R., Denli A. M., Mendes A. P. D., et al.
eLife, vol.8, 2019 (SCI-Expanded)
- VII. **Science-inspired sustainable behavior**
Kumar B., Jensen M. M., Strielkowski W., Johnston J. T., Sharma V., Dandara C., Shehata M. M., Struett M. M., Nikolaou A., Szymanski D. W., et al.
Science, vol.364, no.6443, pp.822-824, 2019 (SCI-Expanded)
- VIII. **Particular phosphorylation of PI3K/Akt on Thr308 via PDK-1 and PTEN mediates melatonin's neuroprotective activity after focal cerebral ischemia in mice**
Kilic U., ÇAĞLAYAN A. B., BEKER M. Ç., Gunal M. Y., ÇAĞLAYAN B., YALÇIN E., KELEŞTEMUR T., Gundogdu R. Z., Yulug B., Yilmaz B., et al.
Redox Biology, vol.12, pp.657-665, 2017 (SCI-Expanded)
- IX. **Myelin disorders and stem cells: As therapies and models**
Aydinli F. İ., Çelik E., Vatandaşlar B. K., KERMAN B. E.
Turkish Journal of Biology, vol.40, no.5, pp.1068-1080, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Identification of protein-protein interaction bridges for multiple sclerosis**
Yazici G., Kurt Vatandaşlar B., Aydin Canturk I., Aydinli F. I., ARICI DÜZ Ö., Karakoc E., KERMAN B. E., Alkan C.
Bioinformatics, vol.39, no.4, 2023 (Scopus)
- II. **A multi-spectral myelin annotation tool for machine learning based myelin quantification [version 1; peer review: 1 not approved]**
Çapar A., ÇİMEN S., Aladağ Z., Ekinci D. A., AYTEN U. E., KERMAN B. E., Töreyn B. U.

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Myelin segmentation in fluorescence microscopy images Floresan mikroskop görüntülerinde miyelin segmentasyonu**
ÇİMEN S., Ekinci D. A., Cakir E., Ekşioğlu E. M., AYTEN U. E., Çapar A., Töreyn B. U., KERMAN B. E.
2019 Medical Technologies Congress, TIPTEKNO 2019, İzmir, Turkey, 3 - 05 October 2019, (Full Text)
- II. **DEVELOPMENT OF AUTOMATED ANALYSIS OF BIOMEDICAL SIGNALS OBTAINED FROM CALCIUM IMAGING**
DURŞUN G., ÇAPAR A., ÖZKAYA U., KERMAN B. E., Korenic A., Dunja B., Radenovic L., Pavle R A.
JOINT 12th EBSA congress 10th ICBP – IUPAP congress, 20 - 24 July 2019, (Summary Text)
- III. **Development of automated analysis of biomedical signals such as calcium imaging**
ÇAPAR A., ÖZKAYA U., DURŞUN G., Korenic A., Dunja B., Milicevic K., Milosevic M., Pavle R A., KERMAN B. E., Radenovic L.
FENS Regional Meeting Belgrade Serbia, 10 - 13 July 2019, (Summary Text)
- IV. **TIME LAPSE IGG-INDUCED CALCIUM SIGNALING ANALYSIS FOR ALS DIAGNOSIS**
ÇAPAR A., DURŞUN G., KERMAN B. E., Korenic A., Dunja B., Radenovic L., Pavle R A.
FENS Regional Meeting Belgrade, 10 - 13 July 2019, (Summary Text)
- V. **Refractive index tomography of myelinating glial cells**
Toy M. F., Vatandaslar B. K., Kerman B. E.
Quantitative Phase Imaging V 2019, California, United States Of America, 2 - 05 February 2019, vol.10887, (Full Text)
- VI. **DeepMQ: A deep learning approach based myelin quantification in microscopic fluorescence images**
ÇİMEN S., Çapar A., Ekinci D. A., KERMAN B. E., AYTEN U. E., Töreyn B. U.
26th European Signal Processing Conference, EUSIPCO 2018, Rome, Italy, 3 - 07 September 2018, vol.2018-September, pp.61-65, (Full Text)
- VII. **Automated Myelin Quantification From Cem to DeepMQ**
ÇİMEN S., ÇAPAR A., Ekinci D. A., AYTEN U. E., TÖREYİN B. U., KERMAN B. E.
Neubias The Bioimage Analysis Community Conference, Szeged, Hungary, 31 January - 02 February 2018, pp.121, (Summary Text)
- VIII. **Kök Hücre Kullanımıyla Miyelin Oluşumunu ve Miyelinizasyon Hastalıklarını Modelleme**
KERMAN B. E.
XIII. İÜĞEN Kış Okulu, İstanbul, Turkey, 4 - 06 March 2016
- IX. **Modeling myelin formation and myelination disorders using stem cells**
KERMAN B. E.
MolBiyokon2015, 27 - 29 November 2015
- X. **A novel embryonic stem cell based myelination assay**
KERMAN B. E., Kim H. J., Mei A., Padmanabhan K., Georges S., Joens M. S., James AJ F., Japelli R., Chandross K. J., August P. R., et al.
Society for Neuroscience Annual Meeting – CDRF Hot Topics in Stem Cell Biology, San Diego, United States Of America, 9 - 13 November 2013
- XI. **Development of an embryonic stem cell based myelination assay**
KERMAN B. E., Mei A., Kim H. J., Gage F. H.
Society for Neuroscience Annual Meeting, Washington, Kiribati, 12 - 16 November 2011
- XII. **Transcriptional Control of Apical Mechanics During Tube Morphogenesis**
KERMAN B. E., Cheshire A. M., Zipfel W. R., Myatt M. M., Spector A. A., Andrew D. J.
The American Society for Cell Biology 47th Annual Meeting, Washington, Kiribati, 1 - 05 December 2007
- XIII. **High Resolution Live Imaging of Deep Tissue Organogenesis in the Drosophila Embryo**
Cheshire A. M., KERMAN B. E., Andrew D. J.

47th Annual Drosophila Research Conference, Houston, United States Of America, 29 March - 01 May 2006

XIV. Analysis of dalmatian suggests a role for the Nervous System in Drosophila Embryonic Trachea and Salivary Duct Development

KERMAN B. E., Andrew D. J.

47th Annual Drosophila Research Conference, Houston, United States Of America, 29 March - 02 April 2006