

Asst. Prof. ERKAN KİRİŞ

Personal Information

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Education Information

Doctorate, University Of California, Santa Barbara, Molecular, Cellular And Developmental Biology , United States Of America 2003 - 2008

Post Graduate, Muğla Sıtkı Koçman Üniversitesi, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Turkey 2000 - 2003

Under Graduate, Selçuk Üniversitesi, Ahmet Keleşoğlu Eğitim Fakültesi, Biyoloji Öğretmenliği Pr., Turkey 1996 - 2000

Foreign Languages

English, C2 Proficiency

Dissertations

Doctorate, Mechanistic effects of pseudophosphorylation of 3-repeat and 4-repeat tau upon normal and pathological tau action, University Of California, Santa Barbara, Molecular, Cellular And Developmental Biology , 2008

Post Graduate, Akçay (Muğla-Denizli)'in fiziko-kimyasal bentik makroinvertebrata yönünden incelenmesi, Muğla Sıtkı Koçman Üniversitesi, 2003

Research Areas

Life Sciences, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2017 - 2018

Expert, National Cancer Institute At Frederick, National Institutes Of Health, National Cancer Institute At Frederick, Mouse Cancer Genetics Program, 2009 - 2017

Research Assistant, University Of California, Santa Barbara, College Of Letters And Science, Neuroscience Research Institute And Molecular, Cellular And Developmental Biology, 2008 - 2009

Research Assistant, University Of California, Santa Barbara, College Of Letters And Science, Molecular, Cellular And Developmental Biology , 2003 - 2008

Research Assistant, Muğla Sıtkı Koçman Üniversitesi, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, 2000 - 2003

Courses

MOLECULAR BIOLOGY OF NEURODEGENERATIVE DISEASES, Post Graduate, 2018 - 2019

Stem Cells and Neurobiology, Doctorate, 2019 - 2020

Designed Lessons

Kiriş E., STEM CELLS AND NEUROBIOLOGY, Doctorate, 2019 - 2020

Kiriş E., MOLECULAR BIOLOGY OF NEURODEGENERATIVE DISEASES, Doctorate, 2018 - 2019

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

- **New Steroidal 4-Aminoquinolines Antagonize Botulinum Neurotoxin Serotype A in Mouse Embryonic Stem Cell Derived Motor Neurons in Postintoxication Model.**
Konstantinović J., Kiriş E., Kota K., Kugelman-Tonos J., Videnović M., Cazares L., Terzić J., Verbić T., Andjelković B., Duplantier A., et al.
Journal of medicinal chemistry, vol.61, pp.1595-1608, 2018 (Journal Indexed in SCI Expanded)
- **Deubiquitinating enzyme VCIP135 dictates the duration of botulinum neurotoxin type A intoxication.**
Tsai Y., Kotiya A., Kiriş E., Yang M., Bavari S., Tessarollo L., Oyler G., Weissman A.
Proceedings of the National Academy of Sciences of the United States of America, vol.114, 2017 (Journal Indexed in SCI Expanded)
- **Paclitaxel suppresses Tau-mediated microtubule bundling in a concentration-dependent manner.**
Choi M., Chung P., Song C., Miller H., Kiriş E., Li Y., Wilson L., Feinstein S., Safinya C.
Biochimica et biophysica acta. General subjects, vol.1861, pp.3456-3463, 2017 (Journal Indexed in SCI Expanded)
- **RanBPM (RanBP9) regulates mouse c-Kit receptor level and is essential for normal development of bone marrow progenitor cells.**
Puverel S., Kiriş E., Singh S., Klarmann K., Coppola V., Keller J., Tessarollo L.
Oncotarget, vol.7, pp.85109-85123, 2016 (Journal Indexed in SCI Expanded)
- **Phosphatase Inhibitors Function as Novel, Broad Spectrum Botulinum Neurotoxin Antagonists in Mouse and Human Embryonic Stem Cell-Derived Motor Neuron-Based Assays.**
Kiriş E., Nuss J., Stanford S., Wanner L., Cazares L., Maestre M., Du H., Gomba G., Burnett J., Gussio R., et al.
PloS one, vol.10, 2015 (Journal Indexed in SCI Expanded)
- **SRC family kinase inhibitors antagonize the toxicity of multiple serotypes of botulinum neurotoxin in human embryonic stem cell-derived motor neurons.**
Kiriş E., Burnett J., Nuss J., Wanner L., Peyser B., Du H., Gomba G., Kota K., Panchal R., Gussio R., et al.
Neurotoxicity research, vol.27, pp.384-98, 2015 (Journal Indexed in SCI Expanded)
- **A high content imaging assay for identification of Botulinum neurotoxin inhibitors.**
Kota K., Soloveva V., Wanner L., Gomba G., Kiriş E., Panchal R., Kane C., Bavari S.
Journal of visualized experiments : JoVE, 2014 (Journal Indexed in SCI Expanded)
- **TrkA in vivo function is negatively regulated by ubiquitination.**
Kiriş E., Wang T., Yanpallewar S., Dorsey S., Becker J., Bavari S., Palko M., Coppola V., Tessarollo L.
The Journal of neuroscience : the official journal of the Society for Neuroscience, vol.34, pp.4090-8, 2014 (Journal Indexed in SCI Expanded)
- **Recent developments in cell-based assays and stem cell technologies for botulinum neurotoxin research and drug discovery.**
Kiriş E., Kota K., Burnett J., Soloveva V., Kane C., Bavari S.
Expert review of molecular diagnostics, vol.14, pp.153-68, 2014 (Journal Indexed in SCI Expanded)
- **Recent advances in botulinum neurotoxin inhibitor development.**
Kiriş E., Burnett J., Kane C., Bavari S.
Current topics in medicinal chemistry, vol.14, pp.2044-61, 2014 (Journal Indexed in SCI Expanded)
- **Embryonic stem cell-derived motoneurons provide a highly sensitive cell culture model for**

botulinum neurotoxin studies, with implications for high-throughput drug discovery.

Kiris E., Nuss J., Burnett J., Kota K., Koh D., Wanner L., Torres-Melendez E., Gussio R., Tessarollo L., Bavari S.
Stem cell research, vol.6, pp.195-205, 2011 (Journal Indexed in SCI Expanded)

● **Combinatorial Tau pseudophosphorylation: markedly different regulatory effects on microtubule assembly and dynamic instability than the sum of the individual parts.**

Kiris E., Ventimiglia D., Sargin M., Gaylord M., Altinok A., Rose K., Manjunath B., Jordan M., Wilson L., Feinstein S.
The Journal of biological chemistry, vol.286, pp.14257-70, 2011 (Journal Indexed in SCI Expanded)

● **Human microtubule-associated-protein tau regulates the number of protofilaments in microtubules: a synchrotron x-ray scattering study.**

Choi M., Raviv U., Miller H., Gaylord M., Kiris E., Ventimiglia D., Needleman D., Kim M., Wilson L., Feinstein S., et al.
Biophysical journal, vol.97, pp.519-27, 2009 (Journal Indexed in SCI Expanded)

● **Model based dynamics analysis in live cell microtubule images.**

Altinok A., Kiris E., Peck A., Feinstein S., Wilson L., Manjunath B., Rose K.
BMC cell biology, 2007 (Journal Indexed in SCI Expanded)

Books & Book Chapters

● **Quantitative Analysis of MAP-Mediated Regulation of Microtubule Dynamic Instability In Vitro—
Focus on Tau**

Kiriş E., Ventimiglia D., Feinstein S. C.

in: METHODS IN CELL BIOLOGY, Leslie Wilson, John J. Correia, Editor, Elsevier Science, Oxford/Amsterdam ,
Massachusetts, pp.481-503, 2010

Supported Projects

ERSON BENSAN A. E. , KİRİŞ E., MUYAN M., GÜRSEL M., TERZİ ÇİZMECİOĞLU N., BANERJEE S., Project Supported by
Higher Education Institutions, Meme dokusunun gelişim aşamalarının APA açısından analizi, 2018 - 2019

KİRİŞ E., Project Supported by Higher Education Institutions, Sinaptozomların Fare Kök Hücrelerinden Başkalaştırılmış
Motor Nöronlardan Geniş Ölçekte İzole Edilmesi ve Karakterizasyonu, 2018 - 2019

Citations

Total Citations (WOS):204

h-index (WOS):8

Awards

Kiriş E., Askan Gündoğan A., Yılmaz Tokel Y. D. , Research Encouragement Award, Odtü Prof. Dr. Mustafa N.Parlar
Eğitim Ve Araştırma Vakfı, December 2018