

Assoc. Prof. ÇAĞDAŞ DEVRİM SON

Personal Information

Office Phone: [+90 312 210 6472](tel:+903122106472)

Email: cson@metu.edu.tr

Web: <http://users.metu.edu.tr/cson/>

Education Information

Doctorate, The University Of Tennessee, Knoxville, Biyokimya, United States Of America 1999 - 2004

Post Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 1997 - 1999

Undergraduate Minor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1995 - 1997

Under Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 1993 - 1997

Dissertations

Doctorate, Identification of Ligand-Receptor Interactions between *Saccharomyces cerevisiae* α -factor Pheromone Receptor (Ste2p) and its tridecapeptide Ligand, University of Tennessee, Knoxville, Arts and Sciences , Biochemistry, Cellular and Molecular Biology, 2004

Post Graduate, ISOLATION AND OPTIMIZATION OF GROWTH CONDITIONS OF THERMOPHILIC BACTERIA FROM TURKISH SOILS AND HOT SPRINGS, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1999

Research Areas

Life Sciences, Biological Spectroscopy, Cell Membrane and Liposomes, Molecular Biophysics, Neurobiophysics, Structural Biophysics, Biochemistry, Biochemical Toxicology, Biomolecules, Enzymology, Molecular Biochemistry, Proteomics, Structural Biology, Bioinformatics, Biological Information, Biological Modelling, Biotechnology, Biomaterial, Biosensor, Genomics, Protein Engineering, Neurochemistry, Biochemistry, Amino Acids, Biophysical Chemistry, Biological Membranes, Biosynthesis, Biotransformations, Enzyme Kinetics, Protein Chemistry, Chemistry of Aromatic Compounds, Natural Sciences

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Moleküler Biyoloji Ve Genetik Bölümü, 2013 - Continues

Academic and Administrative Experience

Assistant Manager of Research and Application Center, Middle East Technical University, Presidency Office, Presidency Office, 2016 - Continues

Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoteknoloji (YI) (Tezli), 2015 - 2017

Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2010 - 2013

Advising Theses

- SON Ç. D. , Optimization of CRISPR/CAS9 gene editing in potato, Post Graduate, D.Özköse(Student), 2020
- Son Ç. D. , Özçubukçu S., INVESTIGATION OF Gai1 PROTEIN HOMODIMERIZATION IN LIVE CELLS USING FÖRSTER RESONANCE ENERGY TRANSFER (FRET) AND BIMOLECULAR FLUORESCENCE COMPLEMENTATION ASSAY (BiFC), Post Graduate, Ö.ATAY(Student), 2019
- Son Ç. D. , Can T., PREDICTION OF TRANSMEMBRANE REGIONS OF G PROTEIN-COUPLED RECEPTORS USING MACHINE LEARNING TECHNIQUES, Post Graduate, M.ÇELEBİ(Student), 2019
- Son Ç. D. , Analysis of interactions between beta-2 adrenergic receptor & beta arrestin-2 using förster resonance energy transfer (fret) method in live cells, Post Graduate, H.EVCİ(Student), 2019
- SON Ç. D. , Investigation of Gai1 protein homodimerization in live cells using förster resonance energy transfer (FRET) and biomolecular fluorecence complementation assay (BiFC), Post Graduate, Ö.Atay(Student), 2019
- Son Ç. D. , Gözen A. G. , Expression of genes encoding fundamental copper homeostasis proteins in copper resistant Escherichia coli mutants, Post Graduate, T.UYANIK(Student), 2019
- YANIK T., SON Ç. D. , ANALYSIS OF CANDIDATE COCAINE AND AMPHETAMINE REGULATED TRANSCRIPT (CART) GENES:CHANGES IN ERK PHOSPHORYLATION IN N2a CELLS, Post Graduate, A.ÖZKILIÇ(Student), 2019
- Son Ç. D. , Gözen A. G. , Expression of the genes encoding important transport system proteins in silver resistant Escherichia coli mutants, Post Graduate, G.UYANIK(Student), 2019
- SON Ç. D. , Nucleic acid gated nanopore delivery of antibiotics, Doctorate, M.KAVRUK(Student), 2018
- SON Ç. D. , ÖZEN C., Nucleic acid based in-vitro diagnostic device, Doctorate, O.BALCI(Student), 2018
- SON Ç. D. , Visualization of interactions between fluorescently tagged G protein α_{11} , $\alpha_{12/13}$ subtypes and adenosine 2A, dopamine 2 or homodimer adenosine 2A/2A receptors, Post Graduate, I.BEGÜM(Student), 2018
- Son Ç. D. , Visualization of interactions between fluorescently tagged G protein α_{11} , $\alpha_{12/13}$ subtypes and adenosine 2A, dopamine 2 or homodimer adenosine 2A/2A receptors, Post Graduate, I.BEGÜM(Student), 2018
- Son Ç. D. , Molecular investigation of therapeutical effects of γ tocotrienol conjugation therapy with doxorubicin on hepatocellular carcinoma cell line HEPG2, Post Graduate, İ.ÖZYURT(Student), 2017
- SON Ç. D. , Molecular investigation of therapeutical effects of γ -tocotrienol conjugation therapy with doxorubicin on hepatocellular carcinoma cell line HePG2, Post Graduate, İ.Özyurt(Student), 2017
- SON Ç. D. , Molecular investigation of therapeutical effects of γ tocotrienol conjugation therapy with doxorubicin on hepatocellular carcinoma cell line HEPG2, Post Graduate, İ.ÖZYURT(Student), 2017
- ÖZÇUBUKÇU S., SON Ç. D. , Optimization of internal tagging of inhibitory G-proteins for investigating their interactions with dopamine receptor D2 via fret method, Post Graduate, G.ÖZCAN(Student), 2016
- ÇEKMECELİOĞLU D., SON Ç. D. , Pectinase production using apple pomace as carbon source by mixed culture fermentation, Post Graduate, C.KUVVET(Student), 2016
- İZGÜ K. F. , SON Ç. D. , Thermostabilization of Panomycocin, a novel exo-beta-1,3-glucanase isolated from Pichia anomala NCYC 434, by using excipients and computational methods, Post Graduate, M.TİLAHUN(Student), 2015
- SON Ç. D. , More than just a dimer: detection of g protein-coupled receptor oligomers using fluorescent protein reassembly of Ste2p, a yeast pheromone receptor, Doctorate, O.CEVHEROĞLU(Student), 2015
- SON Ç. D. , Detection of homo/hetero-dimerizations between adenosine A2A, dopamine D2 and NMDA receptors by use of FRET and BiFC assays, Post Graduate, S.ÇELEBİÖVEN(Student), 2014
- NALBANT ESENTÜRK E., SON Ç. D. , Design and characterization of 5-L autoclavable batch-culture bioreactor, Post Graduate, Ş.ÜNSAL(Student), 2014
- SON Ç. D. , Identifying the putative G protein coupled receptor/s candidates of cocaine and amphetamine regulated transcript (CART) peptide, Post Graduate, M.KASAP(Student), 2014
- SON Ç. D. , NALBANT ESENTÜRK E., Design and characterization of 5-l autoclavable batch-culture bioreactor /, Post Graduate, Ş.Ünsal(Student), 2014

SON Ç. D. , In vivo detection of yeast alpha mating pheromone receptor Ste2p homodimerization by FRET, Post Graduate, G.BULUT(Student), 2014

SON Ç. D. , In vivo detection of GPCR dimerizations in Saccharomyces cerevisiae using FRET and BiFC, Post Graduate, B.ÜSTÜNKAYA(Student), 2014

ÖZÇUBUKÇU S., SON Ç. D. , Asymmetric synthesis of beta-hydroxy phosphonates via benzaldehyde lyase catalyzed cross acyloin reactions, Post Graduate, C.Kazancı(Student), 2014

SON Ç. D. , ÖZEN C., Labeling and optimization of organelle markers for co-localization with yeast GPCR dimers, Post Graduate, İ.Süder(Student), 2013

SON Ç. D. , The functional assessment of fluorescently tagged adenosine a2a and dopamine D2 receptors and qualitative analysis of dimerization of adenosine A2A and dopamine D2 receptor by using fret, Post Graduate, S.AKKUZU(Student), 2013

SON Ç. D. , The Functional assessment of fluorescently tagged adenosine A2A and dopamine D2 receptors and qualitative analysis of dimerization of adenosine A2A and dopamine D2 receptor by using FRET, Post Graduate, S.Akkuzu(Student), 2013

ÖZEN C., SON Ç. D. , Labeling and optimization of organelle marker for co-localization with yeast GPCR dimers, Post Graduate, İ.SÜDER(Student), 2013

SON Ç. D. , Comparison of fluorescent protein labelled and wild type NMDA receptor distribution, Post Graduate, Ş.ŞEYDA(Student), 2013

Son Ç. D. , Yanik T., Kumaş, Gözde Title Detecting g-protein coupled receptor interactions using enhanced green fluorescent protein reassembly, Post Graduate, G.Kumaş(Student), 2012

SON Ç. D. , Optimization o fret method to detect dimerization of dopamin D2 and adenosine A2A receptors in live cells, Post Graduate, G.ÜNLÜ(Student), 2011

SON Ç. D. , Optimization of FRET method to detect dimerization of dopamine D2 and adenosine A2A receptors in live cells, Post Graduate, G.Ünlü(Student), 2011

Designed Lessons

Son Ç. D. , Molecular Modeling and Protein Structure Prediction , Under Graduate, 2010 - 2011

Son Ç. D. , Principles of Fluorescence Spectroscopy and Microscopy, Doctorate, 2010 - 2011

Research Infrastructure Information

Son Ç. D. , Structural Biology Laboratory, June 2010

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

- I. **Allergen fragrance molecules: a potential relief for COVID-19**
Aydin A. D. , Altinel F., Erdogmus H., SON Ç. D.
BMC COMPLEMENTARY MEDICINE AND THERAPIES, vol.21, no.1, 2021 (Journal Indexed in SCI)
- II. **Oligomerization and cell surface expression of recombinant GABA(A) receptors tagged in the delta subunit**
Ofiaz F. E. , SON Ç. D. , Arslan A.
JOURNAL OF INTEGRATIVE NEUROSCIENCE, vol.18, no.4, pp.341-350, 2019 (Journal Indexed in SCI)
- III. **Three dimensional structure prediction of panomycocin, a novel Exo- β -1,3-glucanase isolated from Wickerhamomyces anomalus NCYC 434 and the computational site-directed mutagenesis studies to enhance its thermal stability for therapeutic applications.**
Muhammed M., Son Ç. D. , Izgü F.
Computational biology and chemistry, vol.80, pp.270-277, 2019 (Journal Indexed in SCI)

- IV. **GPCR-G alpha protein precoupling: Interaction between Ste2p, a yeast GPCR, and Gpalp, its G alpha protein, is formed before ligand binding via the Ste2p C-terminal domain and the Gpalp N-terminal domain**
Cevheroglu O., Becker J. M. , Son Ç. D.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES, vol.1859, pp.2435-2446, 2017 (Journal Indexed in SCI)
- V. **The yeast Ste2p G protein-coupled receptor dimerizes on the cell plasma membrane**
Cevheroglu O., Kumas G., Hauser M., Becker J. M. , Son Ç. D.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES, vol.1859, pp.698-711, 2017 (Journal Indexed in SCI)
- VI. **GPCRsort-Responding to the Next Generation Sequencing Data Challenge: Prediction of G Protein-Coupled Receptor Classes Using Only Structural Region Lengths**
Sahin M. E. , Can T., Son Ç. D.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.18, pp.636-644, 2014 (Journal Indexed in SCI)
- VII. **Nicotine up-regulates alpha 4 beta 2 nicotinic receptors and ER exit sites via stoichiometry-dependent chaperoning**
Srinivasan R., Pantoja R., Moss F. J. , Mackey E. D. W. , Son Ç. D. , Miwa J., Lester H. A.
JOURNAL OF GENERAL PHYSIOLOGY, vol.137, pp.59-79, 2011 (Journal Indexed in SCI)
- VIII. **Nicotine Normalizes Intracellular Subunit Stoichiometry of Nicotinic Receptors Carrying Mutations Linked to Autosomal Dominant Nocturnal Frontal Lobe Epilepsy**
Son Ç. D. , Moss F. J. , Cohen B. N. , Lester H. A.
MOLECULAR PHARMACOLOGY, vol.75, pp.1137-1148, 2009 (Journal Indexed in SCI)
- IX. **Cross-Linking of a DOPA-Containing Peptide Ligand into its G Protein-Coupled Receptor**
Umanah G. E. , Son Ç. D. , Ding F., Naider F., Becker J. M.
FASEB JOURNAL, vol.23, 2009 (Journal Indexed in SCI)
- X. **Cross-Linking of a DOPA-Containing Peptide Ligand into Its G Protein-Coupled Receptor**
Umanah G. K. E. , Son Ç. D. , Ding F., Naider F., Becker J. M.
BIOCHEMISTRY, vol.48, no.9, pp.2033-2044, 2009 (Journal Indexed in SCI)
- XI. **Nicotine is a Selective Pharmacological Chaperone of Acetylcholine Receptor Number and Stoichiometry. Implications for Drug Discovery**
Lester H. A. , Xiao C., Srinivasan R., Son Ç. D. , Miwa J., Pantoja R., Banghart M. R. , Dougherty D. A. , Goate A. M. , Wang J. C.
AAPS JOURNAL, vol.11, no.1, pp.167-177, 2009 (Journal Indexed in SCI)
- XII. **Unnatural amino acid replacement in a yeast G protein-coupled receptor in its native environment.**
Huang L., Umanah G., Hauser M., Son Ç. D. , Arshava B., Naider F., Becker J.
Biochemistry, vol.47, pp.5638-48, 2008 (Journal Indexed in SCI)
- XIII. **Affinity purification and characterization of a G-protein coupled receptor, *Saccharomyces cerevisiae* Ste2p**
Lee B., Jung K., Son Ç. D. , Kini H., VerBerknioes N. C. , Arshava B., Naider F., Becker J. M.
PROTEIN EXPRESSION AND PURIFICATION, vol.56, no.1, pp.62-71, 2007 (Journal Indexed in SCI)
- XIV. **Analysis of ligand-receptor cross-linked fragments by mass spectrometry**
Son Ç. D. , Sargsyan H., Hurst G., Naider F., Becker J.
JOURNAL OF PEPTIDE RESEARCH, vol.65, no.3, pp.418-426, 2005 (Journal Indexed in SCI)
- XV. **Identification of ligand binding regions of the *Saccharomyces cerevisiae* alpha-factor pheromone receptor by photoaffinity cross-linking**
Son Ç. D. , Sargsyan H., Naider F., Becker J.
BIOCHEMISTRY, vol.43, no.41, pp.13193-13203, 2004 (Journal Indexed in SCI)
- XVI. **BIOPHYSICAL AND MUTAGENIC ANALYSIS OF A G PROTEIN-COUPLED RECEPTOR: PHOTOCROSSLINKING OF THE TRIDECAPEPTIDE ALPHA-FACTOR INTO STE2P OF SACCHAROMYCES CEREVISIAE REVEALS CONTACT POINTS BETWEEN THE PEPTIDE AND ITS RECEPTOR BINDING SITE**
Naider F., Son Ç. D. , Sargsyan H., Becker J. M.
JOURNAL OF PEPTIDE SCIENCE, vol.10, pp.105, 2004 (Journal Indexed in SCI)
- XVII. **Sequences in the intracellular loops of the yeast pheromone receptor Ste2p required for G protein**

activation.

Celić A., Martin N., Son Ç. D. , Becker J., Naider F., Dumont M.
Biochemistry, vol.42, pp.3004-17, 2003 (Journal Indexed in SCI)

XVIII. Tyr266 in the sixth transmembrane domain of the yeast alpha-factor receptor plays key roles in receptor activation and ligand specificity.

Lee B., Lee Y., Hauser M., Son Ç. D. , Khare S., Naider F., Becker J.
Biochemistry, vol.41, pp.13681-9, 2002 (Journal Indexed in SCI)

XIX. Identification of a contact region between the tridecapeptide alpha-factor mating pheromone of Saccharomyces cerevisiae and its G protein-coupled receptor by photoaffinity labeling.

Henry L., Khare S., Son Ç. D. , Babu V., Naider F., Becker J.
Biochemistry, vol.41, pp.6128-39, 2002 (Journal Indexed in SCI)

Books & Book Chapters

I. Büyük ölçekli genomik değişikliklerin tarihsel olarak yeniden yapılandırılması: Biyolojik sorular ve hesaplamalı zorluklar

Son Ç. D.

in: Bioinformatics for Biologists, Zeki Kaya, Editor, Nobel Yayın Dağıtım, Ankara, pp.201-223, 2014

Refereed Congress / Symposium Publications in Proceedings

I. The behaviour of neuro-2A cells on silicon substrates with various topographies generated by femtosecond laser micromachining

Mingu S., PAVLOV I., SON Ç. D. , BEK A.

7th International Conference on Bioimaging, BIOIMAGING 2020 - Part of 13th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2020, Valletta, Malta, 24 - 26 February 2020, pp.192-199

II. In vitro SMA Modelinde Mikrotübül Pozitif Uç Proteinlerinin Araştırılması

koyunoğlu d., BORA G., SON Ç. D. , YURTER H.

3. Nöromusküler hastalıklar kongresi, İzmir, Turkey, 1 - 03 November 2019

III. End binding 3 protein alterations in an in vitro spinal muscular atrophy model

koyunoğlu d., BORA G., SON Ç. D. , YURTER H.

7th International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 27 - 29 September 2019, vol.43, pp.43

IV. Evaluation of Cell Response to Femtosecond-Laser Induced Substrate Topography

Mingu S., İDİKUT F., PAVLOV I., SON Ç. D. , BEK A.

21. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 06 September 2019

V. Protein-Protein Interactions in Live Cells: Reinventing the Wheel

Son Ç. D.

6th International Drug Design Congress, İstanbul, Turkey, 13 - 15 December 2018

VI. Investigation of Dimerization of G-alpha Protein by Förster Resonance Energy Transfer Method

Son Ç. D. , Atay Ö.

6th International Congress of the Molecular Biology Association of turkey, İzmir, Turkey, 5 - 08 September 2018

VII. Applications of Förster Resonance Energy Transfer and Split EGFP Techniques at Protein-protein Interaction Studies

SON Ç. D.

15th International Congress of Histology and Cytochemistry, 18 - 21 May 2017

VIII. A2A D2 Receptors and G Protein Interactions Identification Using Confocal Microscopy in Live Cells

SON Ç. D. , Sahin Kostromin I. B.

ELMI International Light Microscopy initiative Conference, 19 - 22 May 2015

- IX. **CHNQ EXERTS ANTITUMOR ACTIVITY AGAINST COLORECTAL CANCER THROUGH THE INDUCTION OF APOPTOSIS AND OXIDATIVE STRESS**
Enayat S., Ceyhan M., SON Ç. D., Stefek M., BANERJEE S.
11th International Symposium on Pharmaceutical Sciences (ISOPS-11), 9 - 12 June 2015
- X. **Photons from cyan and yellow fluorescence proteins shed light on alpha 4 beta 2 nAChR subunit assembly and stoichiometry**
Son Ç. D., Nashmi R., Wade L., Drenan R., Lester H. A.
Symposium on Nicotinic Acetylcholine Receptors as Therapeutic Targets, California, United States Of America, 31 October - 02 November 2007, vol.74
- XI. **Biochemical and mutagenic analysis of a G protein-coupled receptor: Photocrosslinking of the tridecapeptide alpha-Factor into Ste2p of Saccharomyces cerevisiae reveals contact points between the peptide and its receptor binding site**
Naider F., Son Ç. D., Sargsyan H., Becker J. M.
3rd International Peptide Symposium/28th European Peptide Symposium, Prague, Czech Republic, 5 - 10 September 2004, pp.93-95
- XII. **Synthesis and cross-linking of photoactivateable biotinylated ligands of G protein-coupled receptors**
Sargsyan H., Son Ç. D., Becker J. M., Naider F.
18th American Peptide Symposium, Massachusetts, United States Of America, 19 - 23 July 2003, pp.635-636
- XIII. **Synthesis and cross-linking of photoactivate-able, biotinylated ligands of a G protein-coupled receptor**
Sargsyan H., Son Ç. D., Becker J., Naider F.
18th American Peptide Symposium, BOSTON, MASSACHUSETTS, 19 - 23 July 2003, vol.71, pp.385

Supported Projects

SON Ç. D., SEDAT FEYAT M., Project Supported by Higher Education Institutions, AMİLİN VE BETA AMİLOİD PROTEİNLERİNİN BEYİN DOKUSUNDA BİRLİKTE AGREGASYONUNUN ALZHEİMER PATHOLOJİSİNİN GELİŞİMİNDEKİ ROLÜNÜN ARAŞTIRILMASI, 2018 - 2019

SON Ç. D., ATAY Ö., Project Supported by Higher Education Institutions, GAİL PROTEİN HOMODİMERİZASYONUNUN BİMOLEKÜLER FLORESAN TAMAMLAMA YÖNTEMİ İLE İNCELENMESİ VE GÖSTERİLMESİ, 2018 - 2019

SON Ç. D., EVCİ H., Project Supported by Higher Education Institutions, B2A RESEPTÖRÜNÜN VE B ARRESTİN 2NİN FRET ÇALIŞMALARI İÇİN FARKLI FLORESAN PROTEİNLERLE İŞARETLENMESİ, 2018 - 2019

SON Ç. D., AKYOL A., Project Supported by Higher Education Institutions, FOTO ÇAPRAZ BAĞLANMA YETENEĞİ OLAN SENTETİK CART (KOKAİN VE ANFETAMİN İLE REGÜLE EDİLEN TRANSKRİPT) PEPTİDİ SENTEZİ GELİŞTİRİLMESİ VE FONKSİYONEL ANALİZİNİN YAPILMASI, 2018 - 2019

SON Ç. D., ZABCI S., ATAY Ö., İZGÜ K. F., DOĞAN M., YANIK T., KOCABIYIK S., ÖNDE S., Project Supported by Higher Education Institutions, G-alpha (i) proteinlerinin homodimerizasyonunun canlı hücrelerde tespiti, 2018 - 2019

SON Ç. D., ŞEKER T., YALÇIN F., Project Supported by Higher Education Institutions, MERLAB MOLEKÜLER BİYOLOJİ-BİYOTEKNOLOJİ AR-GE MERKEZİ HEDEFLİ PROTEOMİK VE METABOLOMİK ÇALIŞMALARI İÇİN ALT YAPI GELİŞTİRME PROJESİ, 2017 - 2019

SON Ç. D., Project Supported by Higher Education Institutions, BAKTERİYEL HEDEFLERİN TESPİTİ İÇİN YATAY AKIŞ TEST PLATFORMLARININ GELİŞTİRİLMESİ, 2017 - 2017

SON Ç. D., Project Supported by Higher Education Institutions, DOPOMİNE 2 RESEPTÖRLERİNİN İKİ FARKLI YERDEN FLUORESAN İŞARETLENMESİ VE İŞARETLENEN D2 RESEPTÖRLERİNİN KOLOKALİZASTONLARI ARASINDAKİ FARKIN İNCELENMESİ, 2017 - 2017

SON Ç. D., ZABCI S., İZGÜ K. F., DOĞAN M., KOCABIYIK S., MİMİROĞLU D., Project Supported by Higher Education Institutions, Kokain ve Amfetaminle Regüle Edilen Transcript (CART) ile uyarılan fare hipofiz bezi hücre hattında p-ERK yanıtının incelenmesi, 2017 - 2017

SON Ç. D., Project Supported by Higher Education Institutions, A2A RESEPTÖRÜNÜN FRET VE BiFC ÇALIŞMALARINA

UYGUN FARKLI FLORASAN PROTEİNLERLE İŞARETLENMESİ VE OPTİMİZASYON ÇALIŞMALARI, 2017 - 2017
SON Ç. D. , Project Supported by Higher Education Institutions, ETİKETLENMİŞ A2A VE D2 RESEPTÖRLERİNİN HOMO/HETERODİMERİZASYON KARAKTERİSTİKLERİNİN FRET YÖNTEMİ İLE ANALİZİNİN OPTİMİZASYONUNDA CRISPR YÖNTEMİ İLER ETİKETLENMEMİŞ NÖROBLASTOMA RESEPTÖRLERİNİN SUSTURULMASI, 2017 - 2017
SON Ç. D. , ÇELEBİ M., CAN T., Project Supported by Higher Education Institutions, G-proteine kenetli reseptörlerin etkileşim bölgelerinin işlemsel olarak 3D modellenmesi, 2017 - 2017
SON Ç. D. , ZABCI S., YANIK T., KOCABIYIK S., Project Supported by Higher Education Institutions, G-proteine Kenetli Reseptörlerin Birbirleri ile Olan Etkileşimlerinin Çift Moleküllü Floresan Birleşme (BiFC) ve Förster Rezonans Enerji Transferi (FRET) Metotları ile Araştırılması, 2016 - 2016
SON Ç. D. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016
SON Ç. D. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016
SON Ç. D. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016
KOCABIYIK S., SON Ç. D. , YANIK T., ZABCI S., Project Supported by Higher Education Institutions, Isı şoku altında termofilik arkea'da (model: Thermoplasma volcanium) global gen anlatımındaki farklılaşmanın mikrodizin tekniği ile analizi, 2015 - 2015
SON Ç. D. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015
SON Ç. D. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015
SON Ç. D. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015
SON Ç. D. , Project Supported by Higher Education Institutions, Dopamin D2 reseptörlerinin hücre zarındaki etkileşimleri, 2014 - 2014
SON Ç. D. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014
SON Ç. D. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014
YANIK T., SON Ç. D. , KOCABIYIK S., Project Supported by Higher Education Institutions, Kokain ve Amfetamin ile Regüle Edilen Transkript (CART) ile Etkileşim ERK fosforilasyonunu tetikleyen belirlenmiş on GPCR geninin qRT-PCR ile doğrulanması., 2014 - 2014
SON Ç. D. , KASAP M., Project Supported by Higher Education Institutions, G PROTEIN KENETLİ RESEPTÖRLERİN KOKAİN VE AMFETAMİNLE REGÜLE EDİLEN PEPDİDE TAYİNİ, 2013 - 2013
SON Ç. D. , ÇELEBİÖVEN S., Project Supported by Higher Education Institutions, G-proteine kenetli Adenosin A2A Reseptörlerinin Hücre Zarında Gerçekleşen Etkileşimleri, 2013 - 2013
SON Ç. D. , KASAP M., Project Supported by Higher Education Institutions, Kokain Ve Amfetamin ile Regüle Edilen” (CART) peptidini tanıdığı kabul edilen G protein kenetli reseptör ya da reseptör adaylarının tayini, 2013 - 2013
SON Ç. D. , ÇELEBİÖVEN S., Project Supported by Higher Education Institutions, ADENOZİN A2A VE NMDA RESEPTÖRLERİNİN DİMİRİZASYONLARININ BİMOLEKÜLER FLORESAN TAMAMLAMA YÖNTEMİ İLE İN VİVO TESPİTİ, 2013 - 2013
YANIK T., kasap m., SON Ç. D. , KOCABIYIK S., Project Supported by Higher Education Institutions, Kokain Ve Amfetamin İle Regüle Edilen Transkript(cart) İle Etkileşim Erk Fosforilasyonunu Tetikleyen G-Proteine Kenetli Reseptörün Tespiti, 2012 - 2013
SON Ç. D. , Project Supported by Higher Education Institutions, Farmakolojik Önem Taşıyan G-Protene Kenetli Dopamin Reseptörlerinin N-Metil-D-Asparat Reseptörü İle Etkileşiminin Floresan Yöntemlerle Tespiti Ve Bu Etkileşimin Farmakolojik Etkilerinin Araştırılması, 2010 - 2012
SON Ç. D. , Project Supported by Higher Education Institutions, Biyolojik Floresan Komplemantasyon Tekniğinin Protein Etkileşimlerinde Kullanılması Ve Zar Proteinlerine Uygulanması, 2010 - 2010

Patent

Son Ç. D. , Moss F. J. , Srinivasan R., Lester H. A. , Nicotine normalizes intracellular subunit stoichiometry of nicotinic receptors carrying mutations linked to autosomal dominant nocturnal frontal lobe epilepsy, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 8,642,352 , Initial Registration, 2014

Activities in Scientific Journals

e-Türk Biyokimya Dergisi (elektronik), Assistant Editor, 2016 - Continues

Edit Congress and Symposium Activities

6th International Bahçeşehir University (BAU) Drug Design Congress. , Invited Speaker, İstanbul, Turkey, 2018

15th International Congress of Histochemistry and Cytochemistry, Invited Speaker, Antalya, Turkey, 2017

22nd Electron Microscopy Congress, Invited Speaker, İstanbul, Turkey, 2015

25. Ulusal Kimya Kongresi (Uluslararası katılımlı), Invited Speaker, Erzurum, Turkey, 2011

21st National Biochemistry Congress, Invited Speaker, İstanbul, Turkey, 2009

Citations

Total Citations (WOS):492

h-index (WOS):11

Invited Talks

6th International Bahçeşehir University (BAU) Drug Design Congress, Conference, Bahcesehir University, Turkey, December 2018

15th International Congress of Histochemistry and Cytochemistry, Conference, Turkish Society for Electron Microscopy, Turkey, May 2017

22nd Electron Microscopy Congress, Conference, Turkish Society for Electron Microscopy, Turkey, September 2015

Scholarships

- Philip Morris External Research Program Postdoctoral Fellowship , University, 2007 - 2009

Awards

Son Ç. D. , MARIE SKŁODOWSKA-CURIE ACTIONS, European Commission, February 2010

Son Ç. D. , GEBİP, Türkiye Bilimler Akademisi, February 2010