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International Researcher IDs

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Publons / Web Of Science ResearcherID: C-8018-2014

ScopusID: 7005976995

Yoksis Researcher ID: 29459

Education Information

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

Postgraduate, 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

Undergraduate, 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

Postgraduate, 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

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2024 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2013 - 2024

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

Courses

Molecular Modeling and Protein Structure Prediction , Undergraduate, 2021 - 2022

Biochemistry, Undergraduate, 2020 - 2021

Supervised Theses

Son Ç. D., The role of G-domain on K-Ras and $G\alpha$ dimerization, Postgraduate, İ.AYDIN(Student), 2024

Son Ç. D., Cevheroğlu O., Detection of the homo-oligomerization of ADGRE2/EMR2 using BRET and FRET, Postgraduate, D.ÖĞÜTCÜ(Student), 2023

Son Ç. D., Cevheroğlu O., Investigating the homo-dimerization of ADGRD1/GPR133 and ADGRG5/GPRr114 via resonance energy transfer techniques, Postgraduate, B.DEMİRBAŞ(Student), 2023

BEK A., SON Ç. D., The effect of topography-induced mechanotransduction on expression levels of focal adhesion-related genes in neuro-2A cells, Postgraduate, Ş.CULFA(Student), 2022

SON Ç. D., Development of a composite guide for peripheral nerve regeneration, Doctorate, D.ARSLANTUNALI(Student), 2022

SON Ç. D., The effect of BFPP mutations on trafficking, signaling and function of ADGRG1/GPR56 receptor, Postgraduate, N.DEMİR(Student), 2022

SON Ç. D., Investigation of the effect of GPCR oligomerization on the GNAI1 homodimerization in live cells using FRET, Postgraduate, E.NALLI(Student), 2022

BEK A., SON Ç. D., Development of SERS-active silver nanowire filter foils for pathogen detection in fluids, Postgraduate, H.ÖĞÜZ(Student), 2022

Aydin Son Y., Son Ç. D., Fluorescent labeling of SPOCK1 and localization studies in live neural cell lines, Postgraduate, Z.EDA(Student), 2022

Son Ç. D., Phosphorylation independent activation of Beta Arrestin 2 and Beta Adrenoceptor Type 2 by means of small molecules, Postgraduate, A.AKYOL(Student), 2021

Son Ç. D., Cevheroğlu O., A Brighter Method to Illuminate the Dark Side of Adhesion G Protein-Coupled Receptors: Detection of the ADGRG1 Dimers by Bioluminescence Resonance Energy Transfer (BRET), Postgraduate, M.MURAT(Student), 2021

Son Ç. D., Baloğlu F. K., INVESTIGATION OF PHYSICAL INTERACTION BETWEEN $G\alpha i$ AND $G\alpha s$ PROTEINS VIA FRET IN LIVE CELLS, Postgraduate, S.TUĞÇE(Student), 2021

Son Ç. D., İlgü M., Aptamer selection against cadaverine/lysine antiporter (CADB) purified in mild detergent, Postgraduate, N.KARA(Student), 2021

Son Ç. D., İlgü M., Systematic evolution of novel 2'F-PY RNA aptamers targeting the membrane protein l-arginine/agmatine antiporter purified in mild detergent, Postgraduate, N.FATHI(Student), 2021

SON Ç. D., Optimization of CRISPR/CAS9 gene editing in potato, Postgraduate, D.Özköse(Student), 2020

Bek A., Son Ç. D., Behavior of neuro-2a cells on femtosecond laser structured silicon substrates, Postgraduate, S.MINGU(Student), 2020

Son Ç. D., Özçubukçu S., INVESTIGATION OF $G\alpha i1$ PROTEIN HOMODIMERIZATION IN LIVE CELLS USING FÖRSTER RESONANCE ENERGY TRANSFER (FRET) AND BIMOLECULAR FLUORESCENCE COMPLEMENTATION ASSAY (BiFC), Postgraduate, Ö.ATAY(Student), 2019

Son Ç. D., Can T., PREDICTION OF TRANSMEMBRANE REGIONS OF G PROTEIN-COUPLED RECEPTORS USING MACHINE LEARNING TECHNIQUES, Postgraduate, 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, Postgraduate, H.EVCİ(Student), 2019

SON Ç. D., Investigation of Gai1 protein homodimerization in live cells using Förster resonance energy transfer (FRET) and biomolecular fluorescence complementation assay (BiFC), Postgraduate, Ö.Atay(Student), 2019

SON Ç. D., YANIK T., ANALYSIS OF CANDIDATE COCAINE AND AMPHETAMINE REGULATED TRANSCRIPT (CART) GENES:CHANGES IN ERK PHOSPHORYLATION IN N2a CELLS, Postgraduate, A.ÖZKILIÇ(Student), 2019

Son Ç. D., Gözen A. G., Expression of genes encoding fundamental copper homeostasis proteins in copper resistant Escherichia coli mutants, Postgraduate, T.UYANIK(Student), 2019

Son Ç. D., Gözen A. G., Expression of the genes encoding important transport system proteins in silver resistant Escherichia coli mutants, Postgraduate, G.UYANIK(Student), 2019

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, Postgraduate, 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, Postgraduate, I.BEGÜM(Student), 2018

SON Ç. D., Nucleic acid gated nanopore delivery of antibiotics, Doctorate, M.KAVRUK(Student), 2018

Son Ç. D., Molecular investigation of therapeutic effects of γ tocotrienol conjugation therapy with doxorubicin on hepatocellular carcinoma cell line HEPG2, Postgraduate, İ.ÖZYURT(Student), 2017

SON Ç. D., Molecular investigation of therapeutic effects of γ -tocotrienol conjugation therapy with doxorubicin on hepatocellular carcinoma cell line HePG2, Postgraduate, İ.Özyurt(Student), 2017

SON Ç. D., Molecular investigation of therapeutic effects of γ tocotrienol conjugation therapy with doxorubicin on hepatocellular carcinoma cell line HEPG2, Postgraduate, 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, Postgraduate, G.ÖZCAN(Student), 2016

ÇEKMECELİOĞLU D., SON Ç. D., Pectinase production using apple pomace as carbon source by mixed culture fermentation, Postgraduate, C.KUVVET(Student), 2016

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., İZGÜ K. F., Thermostabilization of Panomyocin, a novel exo-beta-1,3-glucanase isolated from Pichia anomala NCYC 434, by using excipients and computational methods, Postgraduate, M.TİLAHUN(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, Postgraduate, S.ÇELEBİÖVEN(Student), 2014

SON Ç. D., NALBANT ESENTÜRK E., Design and characterization of 5-l autoclavable batch-culture bioreactor /, Postgraduate, Ş.Ünsal(Student), 2014

SON Ç. D., Identifying the putative G protein coupled receptor/s candidates of cocaine and amphetamine regulated transcript (CART) peptide, Postgraduate, M.KASAP(Student), 2014

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

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

NALBANT ESENTÜRK E., SON Ç. D., Design and characterization of 5-L autoclavable batch-culture bioreactor, Postgraduate, Ş.ÜNSAL(Student), 2014

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

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

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

SON Ç. D., Comparison of fluorescent protein labelled and wild type NMDA receptor distribution, Postgraduate,

Ş.ŞEYDA(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, Postgraduate, 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, Postgraduate, S.AKKUZU(Student), 2013

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

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

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

Designed Lessons

Son Ç. D., Molecular Modeling and Protein Structure Prediction , Undergraduate, 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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Downstream signalling of the disease-associated mutations on GPR56/ADGRG1.**
CEVHEROĞLU O., Demir N., KESİCİ M. S., ÖZÇUBUKÇU S., SON Ç. D.
Basic & clinical pharmacology & toxicology, vol.133, no.4, pp.331-341, 2023 (SCI-Expanded)
- II. **A New Ratio-Metric pH Probe, "ThiAKS Green" for Live-Cell pH Measurements**
Akyol A., Baykal D., AKDAĞ A., Sensoy O., SON Ç. D.
PHOTONIC SENSORS, vol.13, no.1, 2023 (SCI-Expanded)
- III. **Fast Screening of Protein-Protein Interactions Using Forster Resonance Energy Transfer (FRET-) Based Fluorescence Plate Reader Assay in Live Cells**
Durhan S. T., Sezer E. N., SON Ç. D., KÜÇÜK BALOĞLU F.
APPLIED SPECTROSCOPY, vol.77, no.3, pp.292-302, 2023 (SCI-Expanded)
- IV. **Somatic copy number variant load in neurons of healthy controls and Alzheimer's disease patients**
Turan Z. G., Richter V., Bochmann J., Parvizi P., Yapar E., Işildak U., Waterholter S., Leclere-Turbant S., SON Ç. D., Duyckaerts C., et al.
Acta Neuropathologica Communications, vol.10, no.1, 2022 (SCI-Expanded)
- V. **SMN loss dysregulates microtubule-associated proteins in spinal muscular atrophy model**
Zobaroğlu Özer P., Koyunoğlu D., SON Ç. D., Erdem-Yurter H. E., BORA G.
Molecular and Cellular Neuroscience, vol.120, 2022 (SCI-Expanded)
- VI. **Ste2p Under the Microscope: the Investigation of Oligomeric States of a Yeast G Protein-Coupled Receptor**
Cevheroğlu O., Murat M., Mingu-Akmete S., Son Ç. D.
JOURNAL OF PHYSICAL CHEMISTRY B, vol.125, no.33, pp.9526-9536, 2021 (SCI-Expanded)
- VII. **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 (SCI-Expanded)

- VIII. **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 (SCI-Expanded)
- IX. **Three dimensional structure prediction of panomyocin, 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 (SCI-Expanded)
- X. **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 (SCI-Expanded)
- XI. **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 (SCI-Expanded)
- XII. **GPCRsort-Responding to the Next Generation Sequencing Data Challenge: Prediction of G Protein-Coupled Receptor Classes Using Only Structural Region Lengths**
Sahn M. E., Can T., Son Ç. D.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.18, pp.636-644, 2014 (SCI-Expanded)
- XIII. **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 (SCI-Expanded)
- XIV. **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 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **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 (SCI-Expanded)
- XVII. **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 (SCI-Expanded)
- XVIII. **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 (SCI-Expanded)
- XIX. **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 (SCI-Expanded)
- XX. **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 (SCI-Expanded)

- XXI. **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 (SCI-Expanded)
- XXII. **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 (SCI-Expanded)
- XXIII. **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 (SCI-Expanded)
- XXIV. **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 (SCI-Expanded)
- XXV. **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 (SCI-Expanded)

Books

- 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 Föster 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 Föster 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., YANIK T., Project Supported by Higher Education Institutions, Hiperlipideminin beyindeki ER stresine etkisinin araştırılması, 2022 - 2023

SON Ç. D., CULFA Ş., Project Supported by Higher Education Institutions, Neuro2a hücrelerinin işlenmiş silicon üzerinde büyütülmesi ve farklılaştırılması, 2021 - 2022

SON Ç. D., AKYOL A., Project Supported by Higher Education Institutions, Genetik kodlanmış cAMP Biyosensörü, 2021 - 2022

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, 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., TUBITAK Project, Model Bir G-Proteine Kenetli Reseptör Olan Maya Ste2p Feromon Reseptörünün Üçlü ve Dörtlü Etkileşimlerinin Çift Moleküllü Floresan Birleşme (BiFC) ve Förster Rezonans Enerji Transferi (FRET) Metotları

ile Gösterilmesi, 2016 - 2017

SON Ç. D., TÜBİTAK Project, Adenozin 2a ve Dopamin 2 Reseptörlerinin Homo ve/veya Heteromerlerinin G Proteinleri İle Etkileşiminin Canlı Nöron Hücrelerinde Analizi ve Bu Etkileşimlerin Sinyal Yolakları Üzerindeki Etkileri, 2014 - 2017

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

SON Ç. D., ÇELEBLİÖVEN S., Project Supported by Higher Education Institutions, G-proteine kenetli Adenosin A2A Receptörlerinin 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., ÇELEBLİÖVEN S., Project Supported by Higher Education Institutions, ADENOZİN A2A VE NMDA RESEPTÖRLERİNİN DİMİRİZASYONLARININ BİMOLEKÜLER FLORESAN TAMAMLAMA YÖNTEMİ İLE İN VİVO TESPİTİ, 2013 - 2013

SON Ç. D., TÜBİTAK Project, G Proteine Kenetli Reseptörlerin Eşleşmesi: Yapı-İşlev Analizi ve Moleküler Mekanizmalar, 2010 - 2013

Patent

Son Ç. D., Antiviral Essential Oil Compositions, Patent, CHAPTER A Human Needs, Standard Registration, 2022

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 , Standard Registration, 2014

Activities in Scientific Journals

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

Metrics

Publication: 39

Citation (WoS): 565

Citation (Scopus): 625

H-Index (WoS): 11

H-Index (Scopus): 12

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 Cogress, 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

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