

Prof. BEKİ KAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: D-2267-2015

ScopusID: 7004014962

Yoksis Researcher ID: 5880

Education Information

Doctorate, Istanbul University, Istanbul Medical Faculty, Basic Medical Sciences, Turkey 1978 - 1982

Undergraduate, Bogazici University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 1969 - 1973

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Protein Sentezinin Düzenlenme Mekanizmaları Mechanisms of Regulation of Protein Synthesis , Istanbul University, 1978

Research Areas

Health Sciences

Academic Titles / Tasks

Professor, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Basic Sciences, 2009 - Continues

Professor, Marmara University, School Of Medicine, Basic Medical Sciences, 1994 - 2009

Associate Professor, Marmara University, School Of Medicine, Basic Medical Sciences, 1989 - 1994

Assistant Professor, Marmara University, School Of Medicine, Basic Medical Sciences, 1988 - 1989

Research Assistant, Istanbul University, Istanbul Medical Faculty, Basic Medical Sciences, 1978 - 1988

Academic and Administrative Experience

Eğitim ve Müfredat Kurulu üyesi, Acibadem Mehmet Ali Aydınlar University, Graduate School Of Health Sciences, The

Department Of Neuroscience, 2022 - Continues

Head of Department, Acibadem Mehmet Ali Aydinlar University, Graduate School Of Health Sciences, Department Of Biophysics, 2021 - Continues

Anabilim Dalı Akademik Kurul Üyesi, Acibadem Mehmet Ali Aydinlar University, Graduate School Of Health Sciences, The Department Of Neuroscience, 2018 - Continues

Rectorate Commissioner, Acibadem Mehmet Ali Aydinlar University, School Of Medicine, Department Of Basic Sciences, 2017 - Continues

Rectorate Commissioner, Acibadem Mehmet Ali Aydinlar University, School Of Medicine, Department Of Basic Sciences, 2013 - Continues

Acibadem Mehmet Ali Aydinlar University, 2009 - Continues

Head of Department, Acibadem Mehmet Ali Aydinlar University, 2009 - 2021

Acibadem Mehmet Ali Aydinlar University, 2012 - 2020

Marmara University, 1988 - 2009

Marmara University, 2002 - 2005

Marmara University, 1998 - 2002

Marmara University, 1988 - 1990

Courses

Biyofizik, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021

Biophysics, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021

BIF 111, Associate Degree, 2023 - 2024, 2022 - 2023, 2020 - 2021

Blood, Immunity and Cancer, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Sinir Bilimde Temel ve Güncel Yöntemler , Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Nervous System and Related Disorders, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Physics for Life Sciences, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Cellular Biophysics, Postgraduate, 2022 - 2023, 2021 - 2022

Fizik, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Cardiovascular System and Related Disorders, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Basic Biophysics, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Molecular and Cellular Medicine-II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Fizik, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022

Respiratory System and Related Disorders, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Seminar, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Microorganisms and Infection, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Musculoskeletal System and Related Disorders, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Sinir Biliminin Temel İletişim Mekanizmaları , Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Seminar, Doctorate, 2022 - 2023, 2021 - 2022

Kardiyovaskuler Sistem Biyofiziği, Postgraduate, 2021 - 2022

Supervised Theses

Kan B., Ani kalp ölümlerinin (AKÖ) biyofiziksel, fizyolojik ve fizyopatolojik mekanizmalarının son çalışmalara göre algoritmik, matematiksel modellenmesi, Doctorate, S.İBAGÜNER(Student), 2008

Kan B., Go proteininin alfa altbiriminin üçüncül yapısının deneysel ve kuramsal olarak incelenmesi, Doctorate, C.NACAR(Student), 2007

Kan B., G proteinleri üzerine yapı ve işlev çalışmaları, Doctorate, P.MEGA(Student), 2006

Kan B., Hücre farklılaşması ve olgunlaşmasında etkili sinyal ileti yolları, Doctorate, D.ÖZ(Student), 2004

Kan B., G protein mutasyonlarının ve polimorfizmlerinin hipofiz ve over tümör oluşumundaki yerinin incelenmesi,

Postgraduate, E.KARA(Student), 2003

Kan B., Over tümörlerinde Gip mutasyonlarının hibritleme ve SSCP yöntemiyle incelenmesi, Postgraduate, C.NACAR(Student), 2000

Kan B., Eritroid hücrelerde G protein ekspresyonunun incelenmesi, Doctorate, B.KÜÇÜKKAYA(Student), 1999

Kan B., Normal ve anormal koşullarda G protein ekspresyonunun düzenlenmesi, Doctorate, T.SİPAHİ(Student), 1999

Kan B., Sinkrotron X ışınları yöntemlerinin biyolojik makromolekül yapısı çözümlenmesinde kullanılması, Doctorate, O.ORUN(Student), 1999

Kan B., Muskarinik Reseptörlerin Ekspresyonu Üzerinde Çalışmalar., Doctorate, H.CABADAK(Student), 1997

Kan B., G proteinlerinin çeşitli dokulardaki dağılımının hibritleme yöntemiyle incelenmesi, Postgraduate, O.ORUN(Student), 1993

Kan B., G proteinlerinin çeşitli dokulardaki dağılımı, Postgraduate, T.ALSEBAEİ(Student), 1993

Kan B., Beyin, kalp ve mide dokusunda postreseptör olgularının incelenmesi, Postgraduate, E.ÇALIŞKAN(Student), 1993

Kan B., Ökaryot elongasyon faktörü 2(EF-2)'nin farklı dokularda eldesi ve miktarlarının karşılaştırılması, Postgraduate, A.SEVİNÇ(Student), 1993

Kan B., K562 ve MEL hücre modelinde G proteinlerinin farklılaşma üzerindeki rolünün incelenmesi, Postgraduate, B.KÜÇÜKKAYA(Student), 1992

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Acıbadem Mehmet Ali Aydınlar Üniversitesi, February, 2024

Doctoral Examination, Doctoral Examination, Acıbadem Mehmet Ali Aydınlar Üniversitesi, February, 2024

Doctoral Examination, Doctoral Examination, Acıbadem Mehmet Ali Aydınlar Üniversitesi, February, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Acıbadem Mehmet Ali Aydınlar Üniversitesi, February, 2024

Doctoral Examination, Doctoral Examination, Acıbadem Mehmet Ali Aydınlar Üniversitesi, February, 2024

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, December, 2023

Associate Professor Exam, Associate Professor Exam, Acıbadem Mehmet Ali Aydınlar Üniversitesi, March, 2023

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, March, 2023

Doctoral Examination, Doctoral Examination, Acıbadem Mehmet Ali Aydınlar Üniversitesi, February, 2023

Doctoral Examination, Doctoral Examination, Acıbadem Mehmet Ali Aydınlar Üniversitesi, February, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Marmara Üniversitesi, February, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Acıbadem Mehmet Ali Aydınlar Üniversitesi, January, 2023

Associate Professor Exam, Associate Professor Exam, Bursa Uludağ Üniversitesi, December, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Ankara Üniversitesi, October, 2022

Doctoral Examination, Doctoral Examination, Acıbadem Mehmet Ali Aydınlar Üniversitesi, August, 2022

Doctoral Examination, Doctoral Examination, Acıbadem Mehmet Ali Aydınlar Üniversitesi, July, 2022

Associate Professor Exam, Associate Professor Exam, Ege Üniversitesi, June, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Marmara Üniversitesi, February, 2021

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, January, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

I. G protein-coupled receptor-mediated autophagy in health and disease

ÖZ ARSLAN D., DURER Z. A., KAN B.

BRITISH JOURNAL OF PHARMACOLOGY, 2024 (SCI-Expanded)

- II. **Exploring orphan GPCRs in neurodegenerative diseases**
Oz-Arslan D., YAVUZ M., KAN B.
FRONTIERS IN PHARMACOLOGY, vol.15, 2024 (SCI-Expanded)
- III. **The role of intracellular pathways in the proliferation of human K562 cells mediated by muscarinic receptors**
AYDIN OMA Y B., Kan B., CABADAK H.
LEUKEMIA RESEARCH, vol.37, no.9, pp.1144-1149, 2013 (SCI-Expanded)
- IV. **A STUDY COMPARING THE EFFICACY OF ANTIMICROBIAL AGENTS VERSUS ENZYME (P-GP) INDUCERS IN THE TREATMENT OF 2,4,6 TRINITROBENZENESULFONIC ACID-INDUCED COLITIS IN RATS**
Toklu H. Z., KABASAKAL L., Imeryuz N., KAN B., ÇELİKEL Ç., ÇETİNEL Ş., ORUN O., YÜKSEL M., Dulger G. A.
JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, vol.64, no.4, pp.439-451, 2013 (SCI-Expanded)
- V. **Prognostic role of sensitive-to-apoptosis gene expression in rectal cancer**
Ozden S. A., Ozyurt H., Ozgen Z., Kilinc O., Oncel M., Gul A. E., Karadayi N., Serakinci N., Kan B., ORUN O.
WORLD JOURNAL OF GASTROENTEROLOGY, vol.17, no.44, pp.4905-4910, 2011 (SCI-Expanded)
- VI. **Regulation of M-2, M-3, and M-4 muscarinic receptor expression in K562 chronic myelogenous leukemic cells by carbachol**
CABADAK H., AYDIN OMA Y B., KAN B.
JOURNAL OF RECEPTORS AND SIGNAL TRANSDUCTION, vol.31, no.1, pp.26-32, 2011 (SCI-Expanded)
- VII. **The Role of G Protein beta 3 Subunit Polymorphisms C825T, C1429T, and G5177A in Turkish Subjects with Essential Hypertension**
CABADAK H., ORUN O., NACAR C., Dogan Y., Guneyssel O., FAK A. S., KAN B.
CLINICAL AND EXPERIMENTAL HYPERTENSION, vol.33, no.3, pp.202-208, 2011 (SCI-Expanded)
- VIII. **Muscarinic receptor mediated cAMP response in human K562 chronic myelogenous leukemia cells**
Cabadak H., Aydın B., Kan B.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.36, pp.188-192, 2011 (SCI-Expanded)
- IX. **Structural characterization of recombinant bovine Go alpha by spectroscopy and homology modeling**
MEGA TIBER P., ORUN O., NACAR C., Sezerman U. O., Severcan F., Severcan M., Matagne A., KAN B.
SPECTROSCOPY-BIOMEDICAL APPLICATIONS, vol.26, no.4-5, pp.213-229, 2011 (SCI-Expanded)
- X. **Investigation of the Association Between Dopamine D1 Receptor Gene Polymorphisms and Essential Hypertension in a Group of Turkish Subjects**
Orun O., Nacar C., Cabadak H., Tiber P., Dogan Y., Guneyssel O., Fak A. S., Kan B.
CLINICAL AND EXPERIMENTAL HYPERTENSION, vol.33, no.6, pp.418-421, 2011 (SCI-Expanded)
- XI. **M-2, M-3, and M-4 muscarinic receptors are expressed in the guinea pig gallbladder**
CABADAK H., Cuadra A. E., El-Fakahany E. E., Kan B.
JOURNAL OF RECEPTORS AND SIGNAL TRANSDUCTION, vol.29, no.1, pp.63-66, 2009 (SCI-Expanded)
- XII. **Heterotrimeric G proteins**
Kuecuekkaya B., KAN B.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.32, no.1, pp.39-50, 2007 (SCI-Expanded)
- XIII. **Role of G proteins and ERK activation in hemin-induced erythroid differentiation of K562 cells**
Kucukkaya B., Arslan D., Kan B.
LIFE SCIENCES, vol.78, no.11, pp.1217-1224, 2006 (SCI-Expanded)
- XIV. **Methoctramine and gallamine inhibit PI hydrolysis in guinea-pig gallbladder**
Cabadak H., Kan B.
VASCULAR PHARMACOLOGY, vol.43, no.4, pp.242-246, 2005 (SCI-Expanded)
- XV. **G protein mutations in pituitary tumors: a study on Turkish patients.**
Kan B., Esapa C., Sipahi T., Nacar C., Ozer F., Sayhan N., Kaynar M., Sarioğlu A., Harris P.
Pituitary, vol.6, pp.75-80, 2003 (SCI-Expanded)
- XVI. **Carbachol induces nitric oxide generation in the guinea-pig gallbladder**

- Oktay S., Cabadak H., Iskender E., Kan B., Ulusoy N., El-Fakahany E.
GASTROENTEROLOGY, vol.116, no.4, 1999 (SCI-Expanded)
- XVII. **Heme-regulated eIF-2 alpha kinase purifies as a hemoprotein**
Chefalo P., Oh J., Rafie-Kolpin M., Kan B., Chen J.
EUROPEAN JOURNAL OF BIOCHEMISTRY, vol.258, no.2, pp.820-830, 1998 (SCI-Expanded)
- XVIII. **Evidence for the presence of muscarinic M-2 and M-4 receptors in guinea-pig gallbladder smooth muscle**
Oktay S., Cabadak H., Iskender E., Goren Z., Caliskan E., Orun O., Aslan N., Karaalp A., Tolun A., Ulusoy N., et al.
JOURNAL OF AUTONOMIC PHARMACOLOGY, vol.18, no.4, pp.195-204, 1998 (SCI-Expanded)
- XIX. **THE EFFECT OF VARIOUS STRESS CONDITIONS ON THE PHOSPHORYLATION OF EF-2 IN RABBIT RETICULOCYTE LYSATES**
ERDOGDU G., KAN B.
BIOCHEMICAL ARCHIVES, vol.10, no.2, pp.123-131, 1994 (SCI-Expanded)
- XX. **REGULATION OF THE EUKARYOTIC PROTEIN-SYNTHESIS BY PHOSPHORYLATION OF ELONGATION FACTOR-II**
ERDOGDU G., CIRAKOGLU B., KAN B.
BIOCHEMICAL ARCHIVES, vol.9, no.2, pp.91-99, 1993 (SCI-Expanded)
- XXI. **ROLE OF REVERSING FACTOR IN THE INHIBITION OF PROTEIN-SYNTHESIS INITIATION BY OXIDIZED GLUTATHIONE**
KAN B., LONDON I., LEVIN D.
JOURNAL OF BIOLOGICAL CHEMISTRY, vol.263, no.30, pp.15652-15656, 1988 (SCI-Expanded)
- XXII. **THE EFFECTS OF OXIDIZED GLUTATHIONE ON THE FUNCTION OF REVERSING FACTOR IN PROTEIN-SYNTHESIS INITIATION**
KAN B., LONDON I., LEVIN D.
FEDERATION PROCEEDINGS, vol.46, no.6, pp.2268, 1987 (SCI-Expanded)
- XXIII. **HIGH PO₂-ACTIVATED INHIBITOR OF PROTEIN-SYNTHESIS IN RABBIT RETICULOCYTES - ITS RELATIONSHIP TO GLUTATHIONE DISULFIDE-INDUCED INHIBITOR AND TO A APPROXIMATELY-23,000-MR SULFHYDRYL PROTEIN**
KANIGUR G., KAN B., TIRYAKI D., BERMEK E.
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.117, no.1, pp.135-140, 1983 (SCI-Expanded)
- XXIV. **HIGH SALT EFFECT ON RNA-SYNTHESIS IN KREBS ASCITES TUMOR-CELLS**
GOKCE S., KAN B., KIRDAR B., BERMEK E.
EXPERIENTIA, vol.38, no.6, pp.666-667, 1982 (SCI-Expanded)
- XXV. **A TRANSLATIONAL INHIBITOR ACTIVATED IN RABBIT RETICULOCYTE LYSATES UNDER HIGH PO₂**
ALMISKANIGUR G., KAN B., KOSPANCALI S., BERMEK E.
FEBS LETTERS, vol.145, no.1, pp.143-146, 1982 (SCI-Expanded)

Articles Published in Other Journals

- I. **Relationship Between GRK4 Polymorphisms And Essential Hypertension. A Study In A Group Of Turkish Subjects**
Yıldız H., Kan B., Orun O., Nacar C., Doğan Y., Güneysel Ö., Cabadak H.
Acibadem Üniversitesi Sağlık Bilimleri Dergisi, vol.15, no.1, pp.1-7, 2024 (Peer-Reviewed Journal)
- II. **Effects of carbachol on apoptosis in human chronic myelogenous leukemic K562 cell line**
AYDIN OMA Y B., Tulunay A., Eksioğlu-Demiralp E., KAN B., CABADAK H.
MARMARA MEDICAL JOURNAL, vol.32, no.1, pp.38-43, 2019 (ESCI)
- III. **Muscarinic agonist, antagonists and signaling pathway inhibitors change c-Fos and cyclin D-1 expression in K562 cells**
CABADAK H., AYDIN OMA Y B., KAN B.
MARMARA MEDICAL JOURNAL, vol.26, no.2, pp.72-76, 2013 (ESCI)

- IV. **Muscarinic receptor-mediated nitric oxide release in a K562 erythroleukaemia cell line**
CABADAK H., Küçükbrahimoğlu E., AYDIN Omay B., KAN B., GÖREN M. Z.
Autonomic and Autacoid Pharmacology, vol.29, no.3, pp.109-115, 2009 (Scopus)
- V. **Sıçan Beyininde G Proteinlerinin Karakterizasyonu**
CABADAK H., KAN B.
Cerrahpasa Tıp Dergisi, vol.36, no.4, pp.200, 2005 (Peer-Reviewed Journal)
- VI. **Students' perceptions on medical education at Marmara University School of Medicine**
Kalaca S., Kan B., Cakin A., Guney I., Tozun N.
Marmara Medical Journal, vol.13, no.3, pp.131-136, 2000 (Scopus)

Books

- I. **HASTALIKTA VE SAĞLIKTA HÜCRE ÖLÜMÜ Mekanizmaları ve Deneysel Modeller**
Öz Arslan D., Kan B.
in: HASTALIKTA VE SAĞLIKTA HÜCRE ÖLÜMÜ Mekanizmaları ve Deneysel Modeller, AYŞE SEMRA KOÇTÜRK,H.
Seda Vatansever, Editor, Manisa Celal Bayar Üniversitesi Basımevi, Manisa, pp.33-47, 2022
- II. **Molecular biology of the cell**
Diñçer P. R., Altungöz O., Akçalı K. C., Çırakoğlu A., Engin E., Erdal Ş. E., Eresen Yazıcıoğlu Ç., Inhan Garip A., Güner G., Gürsel İ., et al.
Tuba Kitabevi, Ankara, 2008
- III. **High pO₂ -promoted activation of a translational inhibitor in rabbit reticulocytes. Role of the oxidation state of sulfhydryl groups.**
Kan B.
in: Mechanisms of Protein Synthesis, Engin Bermek, Editor, Springer, London/Berlin , Berlin, pp.169-177, 1985

Refereed Congress / Symposium Publications in Proceedings

- I. **Does gestational diabetes mellitus influence mitochondrial dynamics in offspring?**
Abalı S., Öz Arslan D., Güner Yılmaz B., Çelik M., Koç B., Müftüoğlu M., Pata Ö., Korkmaz Toygar A., Semiz S., Kan B., et al.
The 62nd ESPE Annual Meeting , Liverpool, England, 16 - 18 November 2024, vol.97, pp.133-134
- II. **A Structural Model of the G Protein-Coupled Receptor 37 and A2A Adenosine Receptor Heteromer**
Durer Z. A., Öz Arslan D., Kan B., Timuçin E.
2nd Immuparknet Conference , Sevilla, Spain, 15 - 17 June 2023
- III. **A Structural Model of the Heteromer between G Protein-Coupled Receptor 37 and A2A Adenosine Receptor**
Durer Z. A., Kan B., Öz Arslan D., Timuçin E.
5th International 34th National Biophysics Congress September 6-9, 2023, İzmir, Turkey, 6 - 09 September 2023
- IV. **Understanding Molecular Mobility of G Protein-Coupled Receptor 37 Using Fluorescence Correlation Spectroscopy**
Erol G., Carravilla P., Sezgin E., Kan B.
5. Uluslararası/34. Ulusal Biyofizik Kongresi, İzmir, Turkey, 6 - 09 September 2023, pp.231
- V. **Characterization of actin-binding tail structure and dynamics in cardiomyopathy associated metavinculin mutants**
Durer Z. A., Gräwert T., Yetke H. İ., Bulut A. S., Timuçin E., Sayers Z., Kan B.
1st ML4NGP meeting on Machine Learning and Non-globular proteins, Bratislava, Slovakia, 5 - 07 July 2023
- VI. **Characterization of actin-binding tail structure and dynamics in metavinculin mutants associated with cardiomyopathy**
DURER Z. A., Grawert T., Yetke H. I., Bulut A. S., TİMÜÇİN E., Sayers Z., KAN B.

14th European Biophysics Congress (EBSA), Stockholm, Sweden, 31 July - 04 August 2023

VII. Investigation of the signaling pathways of an orphan G Protein coupled receptor GPR37 associated with Parkinsonism and its effect on autophagy signaling pathways

Öz Arslan D., Kan B., Durer Z. A., Timuçin E.

2nd Immuparknet Conference , Sevilla, Spain, 15 - 17 June 2023

VIII. GPR37 structure and function in autophagy

Kan B., Durer Z. A., Öz Arslan D., Timuçin E.

ERNEST 8th and Final Meeting GPCR Structure and Function: The present and perspectives for the future, Heraklion, Greece, 3 - 07 May 2023, pp.24

IX. A Structural Model of the G Protein-Coupled Receptor 37 and A2A Adenosine Receptor Heteromer

Durer Z. A., Kan B., Öz Arslan D., Timuçin E.

ERNEST 8th and Final Meeting GPCR Structure and Function: The Present and perspectives for the future, Heraklion, Greece, 3 - 07 May 2023, pp.78

X. An Investigation into the effect of the Different Vinculin Isoforms in the Morphology of H9C2 Cells

Kasap Can H., Öz Arslan D., Kan B., Durer Z. A.

4. Uluslararası-33. Ulusal Biyofizik Kongresi, Adıyaman, Turkey, 31 August - 03 September 2022

XI. The relationship between overexpression of the orphan receptor GPR37 and autophagy in SH-SY5Y and Hep3B cells.

Açıkgöz D., Öz Arslan D., Durer Z. A., Kan B.

Fifth ERNEST Meeting COST Action CA18133. Bridging Perspectives and Networking in Signal Transduction Research, Bari, Italy, 4 - 08 October 2021, pp.56

XII. Parkinson ile İlişkili Yetim G Protein Kenetli Reseptör GPR37'nin Otofaji ile Bağlantısının SH-SY5Y ve Hep3B Hücrelerinde İncelenmesi

Öz Arslan D., Demir T., Açıkgöz D., Durer Z. A., Kan B.

32. Ulusal Biyofizik Kongresi, İstanbul, Turkey, 17 - 19 November 2021, pp.66

XIII. Kardiyomiyopati ile İlişkili Vinkülin İzofomlarının Aktin'e Bağlanan Kuyruk Kısımlarının Yapısal ve Biyofiziksel Analizi

Durer Z. A., Gräwert T., Yetke H. İ., Sayers Z., Kan B.

32. Ulusal Biyofizik Kongresi, İstanbul, Turkey, 17 - 19 November 2021, pp.62

XIV. An Interactome of ATG3 in a hepatoma cell line

Öz Arslan D., Açıkgöz D., Kan B., Oztug M., Bozkurt S., Timuçin E., Durer Z. A.

Autophagy UK Meeting , London, England, 26 - 27 May 2021, pp.29

XV. Effects of cardiomyopathy linked mutations on the solution structure of metavinculin tail

Durer Z. A., Yetke H. İ., Bulut A., Kan B., Sayers Z.

EMBL P12 User Meeting, Hamburg, Germany, 17 - 19 November 2020

XVI. The Role of Autophagy and Mitochondrial Dynamics in Neurodegenerative Diseases: A Study in an Alzheimer Disease Model

Kan B., Bilge B., Bozkurt S., Ulus İ. H., Öz Arslan D.

Jubilee Scientific Conference "Medicine of the Future", Plovdiv, Bulgaria, 29 - 31 October 2020, vol.62, pp.19-20

XVII. The Role of Autophagy and Mitochondrial Dynamics in Neurodegenerative Diseases: A Study in an Alzheimer Disease Model

Kan B., Ulus İ. H., Öz Arslan D.

Jubilee Scientific Conference "Medicine of the Future" - 29-31 October 2020 on the occasion of the 75th Anniversary of Medical University of Plovdiv, 29 - 31 October 2020, vol.62, pp.19-20

XVIII. Investigation of new binding partners for ATG3 protein in a hepatoma cell line

Öz Arslan D., Acikgoz D., Kan B., Oztug M., Timuçin E., Durer Z. A.

THIRD ERNEST MEETING - Online Signal transduction: From the genomic to the systems level, 12 - 14 October 2020, pp.17

XIX. The Effects of CDP-Choline on Autophagy and Mitochondrial Dynamics in Amyloid-Treated PC12 Cells

Kan B., Bozkurt S., Bilge B., Öz Arslan D.

COST 2nd ERNEST Online Meeting New Perspectives in Signal Transduction: GPCRs and Beyond, İstanbul, Turkey, 28 - 30 March 2020, pp.14

- XX. **The Effects of CDP-Choline on Autophagy and Mitochondrial Dynamics**
Kan B., Bilge B., Bozkurt S., Ulus İ. H., Öz Arslan D.
Second ERNEST Meeting on New Perspectives in Signal Transduction: GPCRs and Beyond, İstanbul, Turkey, 28 - 30 March 2020, pp.14
- XXI. **Evaluation of different transfection agents for expression of fluorescently labeled autophagy and mitophagy genes in hepatoma cells**
Kan B., Öz Arslan D., Durer Z. A.
31. Ulusal Biyofizik Kongresi, Adana, Turkey, 9 - 12 October 2019, pp.41
- XXII. **Unraveling New Binding Partners of ATG3 Protein in HEP3B Cells**
Öz Arslan D., Açıkgöz D., Kan B., Öztuğ M., Durer Z. A.
31. Ulusal Biyofizik Kongresi, Adana, Turkey, 9 - 12 October 2019, pp.29
- XXIII. **Biophysical characterization of cardiomyopathy-related vinculin isoforms and their interactions with actin filaments**
Yetke H. İ., Kan B., Durer Z. A.
31. Ulusal Biyofizik Kongresi, Adana, Turkey, 9 - 12 October 2019, pp.15-16
- XXIV. **Unraveling New Binding Partners of Atg3 in Autophagy and Mitophagy**
Öz Arslan D., Acikgoz D., Kan B., Durer Z. A.
EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS, Madrid, Spain, 20 - 24 July 2019, vol.48, pp.147
- XXV. **Unraveling New Binding Partners of Atg3 in Autophagy and Mitophagy**
Öz Arslan D., Açıkgöz D., Kan B., Durer Z. A.
Joint 12th EBSA European Biophysics Congress / 10th IUPAP International Conference on Biological Physics (ICBP), Madrid, Spain, 20 - 24 July 2019, vol.48, pp.147
- XXVI. **Unraveling New Binding Partners of Atg3 in Autophagy and Mitophagy**
Oz-Arslan D., Acikgoz D., Kan B., Durer Z. A.
Joint 12th EBSA European Biophysics Congress / 10th IUPAP International Conference on Biological Physics (ICBP), Madrid, Spain, 20 - 24 July 2019, vol.48
- XXVII. **Nörodejeneratif bir Hastalık Modelinde CDP-Kolin'in Otofaji ve Mitokondriyal Dinamikler Üzerindeki Rolü**
Bilge B., Gezmiş H., Bozkurt S., Durer Z. A., Yücel D., Kan B., Ulus İ. H., Öz Arslan D.
28-29. Ulusal Biyofizik Kongresi, İstanbul, İstanbul, Turkey, 6 - 09 September 2017
- XXVIII. **The effect of CDP-choline on autophagy and mitochondrial dynamics in beta-amyloid treated PC12 cells**
BİLGE B., GEZMİŞ H., BOZKURT S., YÜCEL D., KAN B., ULUS İ. H., ÖZ ARSLAN D.
19th IUPAB and 11th EBSA Congress, Eur Biophys J. (2017) 46 (Suppl 1):S43-S402, 16 - 20 July 2017
- XXIX. **The effect of CDP-choline on autophagy and mitochondrial dynamics in beta-amyloid treated PC12 cells**
Bilge B., Gezmis H., Bozkurt S., Yucel D., Kan B., Ulus İ. H., Oz-Arslan D.
19th IUPAB Congress / 11th EBSA Congress, Edinburgh, Saint Helena, 16 - 20 July 2017, vol.46
- XXX. **Changes in Autophagic Activity of Differentiated PC12 Response to CDP-Choline**
BİLGE B., YÜCEL D., KAN B., ULUS İ. H., GEZMİŞ H., ÜSTÜNER B., ÖZ ARSLAN D.
Autophagy Network Integration in Health and Disease, Keystone Symposia, United States Of America, 12 - 16 February 2017
- XXXI. **The effect of cardiolipin on mitochondrial dynamics upon induction of autophagy in yeast**
ÖZ ARSLAN D., GÜLEN K., BİLGE B., ÜSTÜNER B., KILINÇ E., KAN B., OKTAY Y.
Autophagy Network Integration in Health and Disease. Keystone Symposia, United States Of America, 12 - 16 February 2017
- XXXII. **Investigation of the role of cardiolipin on autophagy in the yeast model**
Öz Arslan D., Kılıçkaya G., Bilge,Bilge B., Üstüner B., Kılınç E., Kan B., Oktay Y.
41st FEBS Congress, Molecular and Systems Biology for a Better Life, Aydın, Turkey, 3 - 08 August 2016, vol.283,

- XXXIII. **Hücre farklılaşması ve otofaji sırasında hücre zarında meydana gelen değişiklikler**
ÖZ ARSLAN D., ÖNCÜL Ş., KAN B.
XXIV. Ulusal Biyofizik Kongresi, Marmara Üniversitesi, İstanbul, Turkey, 25 - 28 September 2012
- XXXIV. **The role of SAG as a prognostic factor on radio chemotherapy in patients with advanced colorectal cancer**
ORUN O., Özden S., Özyurt H., Özgen Z., ÖNCEL M., KILINÇ O., KAN B.
3rd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP channels, 22 - 27 June 2010
- XXXV. **Effects of sensitive to apoptosis gene SAG and p73 genes on radiotherapy and or chemotherapy**
Özden S., ORUN O., Özyurt H., Özgen Z., ÖNCEL M., KAN B.
ESTRO 27, 14 - 18 September 2008, vol.88, pp.472
- XXXVI. **Purification characterization and modeling of recombinant Goalpha protein**
MEGA TİBER P., NACAR C., ORUN O., SEZERMAN O. U., KAN B.
Gordon Research Conferences, Phosphorylation & G-Protein Mediated Signaling Networks, 10 - 15 June 2007
- XXXVII. **Production of recombinant Go alpha protein using pQE 80 expression vector system**
MEGA TİBER P., NACAR C., ORUN O., KAN B.
31st FEBS Congress, 24 - 29 June 2006, vol.273, pp.93
- XXXVIII. **ERK1 2 phosphorylation in human dendritic cells in response to chemokines**
ÖZ ARSLAN D., KAN B., MAGHAZACHI A.
31st FEBS Congress, Istanbul, Turkey, 24 - 27 June 2006
- XXXIX. **Regulation of M2 muscarinic receptor expression in k562 cells by carbachol**
Cabadak H., AYDIN OMA Y B., KAN B.
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.100-101
- XL. **Heminle eritroid farklılaşmaya indüklenen K562 hücrelerinde ERK1 2 fosforilasyonu**
ÖZ ARSLAN D., KAN B.
XVII. Ulusal Biyofizik Kongresi, Ege Üniversitesi, İzmir, Turkey, 7 - 09 September 2005
- XLI. **Attempts for proper folding of recombinant Goalpha protein after inclusion body purification**
MEGA TİBER P., Nacar C., Orun O., Crossett B., Keith K., Brown K., KAN B.
30th Congress of the Federation-of-European-Biochemical-Societies (FEBS)/9th IUBMB Conference, Budapest, Hungary, 2 - 07 July 2005, vol.272, pp.376
- XLII. **Subcloning of Goalpha cDNA into pTrcHis system**
MEGA TİBER P., ORUN O., KAN B.
1st Congress of Molecular Medicine, 16 - 19 April 2005, vol.1, pp.452
- XLIII. **K562 hücrelerinin eritroid farklılaşmasında Galfas ve Galfa16 Ekspresyonu**
KÜÇÜKKAYA B., ÖZ D., KAN B.
XV. Ulusal Biyofizik Kongresi, Pamukkale Üniversitesi, Denizli, Turkey, 8 - 12 October 2003
- XLIV. **G protein subunit G alpha 16 expression in K562 Cells**
ÖZ D., KUCUKKAYA B., KAN B.
FEBS Special Meeting 2003 on Signal Transduction, Brussels, Belgium, 3 - 08 July 2003
- XLV. **Cloning of Goalpha and optimization of Goalpha GST fusion protein expression**
KAN B., ORUN O., Crossett B., NACAR C., NACAR C., SAYERS Z., SAYERS Z., Koch M., Brown K.
The 7th IUBMB Conference, Receptor-Ligand Interactions, 4 - 08 May 2002
- XLVI. **Purification of Glutathione S Transferase Fusion Go alpha Protein**
ORUN O., Crossett B., NACAR C., SAYERS Z., Koch M., KAN B., Brown K.
Biophysics and Modelling of 7-Transmembrane Receptors, 13 - 15 December 2001
- XLVII. **Galphas Galphai 2 Galpha16 expression levels during erythroid differentiation in K562 cells**
KUCUKKAYA KOLCAK B., ÖZ D., KAN B.
12th BBBB Balcan Biochemical Biophysical Days, Bucharest, Romania, 10 - 13 May 2001
- XLVIII. **Partial purification and characterization of Goalfa**

ORUN O., KAN B., Koch M., SAYERS Z.

10th International Conference on Second Messengers and Phosphoproteins, 8 - 13 November 1998

XLIX. Characterization of muscarinic receptor subtypes in guinea pig gallbladder

KAN B., CABADAK H., ORUN O., Oktay Ş., TOLUN A., TOLUN A., Ulusoy N. B.

XIIth International Biophysics Congress, 11 - 16 August 1996

Other Publications

I. Signaling Pathways Activated by the Orphan G Protein-Coupled Receptor GPR37

Erol G., Öz Arslan D., Durer Z. A., Kan B.

Presentation, pp.1, 2024

II. Understanding Molecular Mobility of G Protein-Coupled Receptor 37 Using Fluorescence Correlation Spectroscopy

Erol G., Carravilla P., Sezgin E., Kan B.

Presentation, pp.231, 2023

Supported Projects

Kan B., Ulus I. H., Project Supported by Higher Education Institutions, Lipopolisakarit (LPS) ile oluşturulmuş inflamasyon modelinde kolinin nöroprotektif ve anti-inflamatuvar etkilerinin araştırılması, 2024 - 2026

Öz Arslan D., Keskinöz E. N., Kan B., Durer Z. A., TÜBİTAK Project, Mikroglia ve Dendritik Hücrelerde Prosaposin Peptidi Olan Prosaptidin, Fenotip, Enflamasyon ve Biyoenerjetik Üzerindeki Etkilerinin İncelenmesi, 2024 - 2026

Keskinöz E. N., Öz Arslan D., Kan B., Aktekin M., TÜBİTAK - AB COST Project, The role of IMMUnity in tackling PARKinson's disease through a Translational NETwork (IMMUPARKNET), 2022 - 2026

Kan B., Erol G., Project Supported by Higher Education Institutions, Yetim G Protein Kenetli Reseptör Ailesine ait GPR37 ile Adenozin A2A Reseptörünün Etkileşiminin İncelenmesi, 2024 - 2025

Onat F., Güven A. Z., Şahiner A. M., Süyen G., Şahin A., Öz Arslan D., Kan B., Keskinöz E. N., Tahir Turanlı E., Yavuz M., Horizon Europe Project, Genetically Engineering Experimental Models: Enhancement of Scientific and Technological excellence and innovation potential to study NEurodevelopmental diseases (GEMSTONE), 2022 - 2025

Kan B., Erol G., TÜBİTAK Project, Yetim G Protein Kenetli Reseptör Ailesine ait GPR37 ile Adenozin A2A Reseptörünün Etkileşiminin İncelenmesi, 2023 - 2024

Kan B., Erol G., Project Supported by Higher Education Institutions, Yetim G Protein Kenetli Reseptör Ailesine ait GPR37'nin Aktive Ettiği Sinyal Yolaklarının İncelenmesi, 2023 - 2024

Abalı S., Öz Arslan D., Beken S., Müftüoğlu M., Korkmaz Toygar A., Kan B., Project Supported by Higher Education Institutions, Gestasyonel diyabetli anneden doğan yenidoğanlarda mitokondri yapı ve işlevlerinin değerlendirilmesi, 2022 - 2024

Kan B., Öz Arslan D., Durer Z. A., Project Supported by Higher Education Institutions, Parkinson ile ilişkili yetim G-protein kenetli reseptör GPR37'nin otofaji ile bağlantısının nöronal hücre hattında incelenmesi, 2020 - 2022

Durer Z. A., Öz Arslan D., Sayers Z., Kan B., TÜBİTAK Project, Vinkülin İzofomlarının Kas Hücrelerindeki İşlevsel Farklılıklarının Belirlenmesi, 2018 - 2022

Durer Z. A., Öz Arslan D., Kan B., TÜBİTAK Project, Atg3 Proteininin Özgün Etkileşim Partnerlerinin Araştırılması, 2018 - 2021

Kan B., Öz Arslan D., Durer Z. A., Project Supported by Higher Education Institutions, Floresan Etiketli Proteinlerin Hücre İçi Görüntülenmesi, 2018 - 2019

Durer Z. A., Kan B., Project Supported by Higher Education Institutions, REKOMBİNANT PROTEİN ÜRETİMİ İÇİN ALT YAPI OLUŞTURULMASI, 2017 - 2018

Yücel D., Öz Arslan D., Kan B., Ulus I. H., Oktay Y., Gözüaçık D., TÜBİTAK Project, Hasarlı Pc12 Hücrelerinde Sitidin 5-Difosfokolin'in (Cdp-Ch) Otofaji ve Mitofaji Üzerine Etkisinin İncelenmesi, 2014 - 2017

Cabadak H., Kan B., TÜBİTAK Project, Hipertansiyonlu bireylerde GNB3 polimorfizmi sıklığının belirlenmesi, 2005 - 2007

Memberships / Tasks in Scientific Organizations

COST IMMUPARKNET CA21117, Member, 2023 - Continues, Belgium
COST-ERNEST CA 18133, Country Representative, 2019 - Continues, Belgium
Türk Biyofizik Derneği, Assistant Chairman of the Board, 2021 - 2023, Turkey
Türk Biyofizik Derneği, Chairman, 2018 - 2021, Turkey

Scientific Refereeing

IUBMB LIFE, SCI Journal, March 2024
TURKISH JOURNAL OF BIOCHEMISTRY, Journal Indexed in SCI-E, August 2023
MARMARA MEDICAL JOURNAL, National Scientific Refreed Journal, July 2023
MARMARA MEDICAL JOURNAL, National Scientific Refreed Journal, May 2023
TÜRK NÖROLOJİ DERGİSİ, National Scientific Refreed Journal, April 2022
CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, SCI Journal, October 2021
TUBITAK Project, 3501 - National Young Researcher Career Development Program, Beykent University, Turkey, January 2021

Tasks In Event Organizations

Süyen G., Yavuz M., Sütçübaşı B., Ergen M., Erdoğan S. B., KAN B., 20th National Neuroscience Congress, Scientific Congress, İstanbul, Turkey, Ekim 2022
Kan B., 33. 34. Ulusal/Uluslararası Biyofizik Kongresi, Scientific Congress, Adıyaman, Turkey, Eylül 2022
Kan B., Kılınç E., 28-29th National Biophysics Congress, Scientific Congress, İstanbul, Turkey, Eylül 2017

Metrics

Publication: 86
Citation (WoS): 232
Citation (Scopus): 250
H-Index (WoS): 8
H-Index (Scopus): 9

Congress and Symposium Activities

IMMUPARKNET SECOND ANNUAL CONFERENCE, Audience, Belgrade, Serbia, 2024
5. ULUSLARARASI 34. ULUSAL BİYOFİZİK KONGRESİ, Moderator, İzmir, Turkey, 2023
COST ERNEST 8 th MEETING, Invited Speaker, Heraklion, Greece, 2023
IMMUPARKNET First Annual Conference, Audience, İstanbul, Turkey, 2023
EBSA Meeting, Attendee, Munich, Germany, 2022
WIA 2nd Annual Symposium , Audience, New York, United States Of America, 2021
32. Ulusal Biyofizik Kongresi, Session Moderator, Şanlıurfa, Turkey, 2021
ERATO International Symposium, Audience, Tokyo, Japan, 2021
IDCS (INTERNATIONAL CELL DEATH SOCIETY) Meeting, Audience, Johannesburg, South Africa, 2021
Fourth General Meeting of COST Action CA18133 , Audience, Berlin, Germany, 2021

Scholarships

Arařtırma Bursu, British Council, 1998 - 1998

Biotechnology Career Fellowship, Official Institutions of Foreign Countries, 1990 - 1992

Post- doctoral research fellowship, Official Institutions of Foreign Countries, 1984 - 1987

Yurt ii doktora bursu, TUBITAK, 1978 - 1980

Eđitim Bursu, University, 1969 - 1973

Awards

Öz Arslan D., Demir T., Aıkgöz D., Durer Z. A., Kan B., Poster Birincilik Ödülü-Parkinson ile İliřkili Yetim G Protein Kenetli Reseptör GPR37'nin Otofaji ile Bađlantısının SH-SY5Y ve Hep3B Hücrelerinde İncelenmesi , Türk Biyofizik Derneđi, November 2021

Durer Z. A., Kan B., Sayers Z., Yetke H. I., Gräwert T., Sözlü sunum 2.lık ödülü, Kardiyomiyopati ile İliřkili Vinkülin İzoformlarının Aktin'e Bađlanan Kuyruk Kısımlarının Yapısal ve Biyofiziksel Analizi, Turk Biyofizik Derneđi, November 2021