

# Prof. PETEK BALLAR KIRMIZIBAYRAK

## Personal Information

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## Education Information

Doctorate, University Of Maryland, Moleküler Ve Hücre Biyolojisi, United States Of America 2003 - 2007

Under Graduate, Ege Üniversitesi, Eczacılık Fakültesi, Eczacılık Pr., Turkey 1997 - 2001

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Identification of a novel p97/VCP-interacting motif (VIM) in gp78 and SVIP and its role in the Endoplasmic Reticulum-Associated Degradation (ERAD), University Of Maryland, Molecular Medicine, Molecular And Cell Biology , 2007

## Research Areas

Medicine, Basic Pharmaceutics Sciences, Health Sciences, Fundamental Medical Sciences, Medical Biology, Pharmacology and Therapeutics, Biochemistry, Life Sciences, Biochemistry, Molecular Biochemistry, Molecular Biology and Genetics, Genetic Disorders, Molecular Biology of Cancer, Natural Sciences

## Academic Titles / Tasks

Associate Professor, Ege Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2012 - Continues

Research Assistant, Ege Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2007 - 2009

Research Assistant, University Of Maryland, Tıp Fakültesi, Moleküler Tıp, 2003 - 2007

Research Assistant, Ege Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2001 - 2003

## Professional Experience

Ege Üniversitesi Bilim Teşvik Ödül Töreni Hazırlık Komisyonu, Ege University, Eczacılık Fakültesi, Temel Eczacılık Bölümü, 2019 - Continues

Geleceğin Ege Üniversitesi Komisyonu Üyesi, Ege University, Eczacılık Fakültesi, Temel Eczacılık Bölümü, 2019 - Continues

Fakülte Akademik Kurul Üyesi, Ege University, Eczacılık Fakültesi, Temel Eczacılık Bölümü, 2010 - Continues

FABAL Molecular Biology Subunit Coordinator, Ege University, Eczacılık Fakültesi, Temel Eczacılık Bölümü, 2008 - Continues

Cell Culture Facility Secreteriat, Ege University, Eczacılık Fakültesi, Temel Eczacılık Bölümü, 2008 - Continues

Deputy Director of the Center, Ege University, Rektörlük, 2018 - 2019

Management Committee Member, Ege University, Eczacılık Fakültesi, Temel Eczacılık Bölümü, 2011 - 2015

## Courses

Molecular Mechanisms of diseases, Doctorate, 2013 - 2014, 2015 - 2016, 2017 - 2018, 2018 - 2019  
MEZUNİYET PROJESİ-1, Under Graduate, 2019 - 2020

## Advising Theses

BALLAR KIRMIZIBAYRAK P., ERAD'ın Androjen Temelli Hormonal Regülasyonunun ve Bu Regülasyonun Prostat Kanseri Gelişimindeki Rolünün Araştırılması., Doctorate, Y.ERZURUMLU(Student), 2018  
BALLAR KIRMIZIBAYRAK P., Preparation of Some Semi-Synthetic Saponin Analogs and Investigation of Their Mechanism of Action on Necrotic Cell Death, Post Graduate, G.ÜNER(Student), 2017  
BALLAR KIRMIZIBAYRAK P., PABUÇÇUOĞLU N. A. , İskemik akut renal yetmezlikte oksidatif/nitrozatif stres ve endoplazmik retikulum (ER) stresinin etkileşimleri ve er stres yanıt proteini MANF/armet'in fonksiyonunun araştırılması, Doctorate, F.AYDIN(Student), 2014  
BALLAR KIRMIZIBAYRAK P., Kemik paget hastalığı ve frontotemporal demans ile gözlenen inklüzyon cisimcik miyopati hastalığıyla (IBMPFD) ilişkili bazı vcp mutant proteinlerin rekombinant DNA teknolojisi ile saflaştırılması ve in vitro bağlanma modellerinin incelenmesi, Post Graduate, Y.ERZURUMLU(Student), 2013  
BALLAR KIRMIZIBAYRAK P., Kemik Paget hastalığı ve frontotemporal demans ile gözlenen inklüzyon cisimcik miyopati hastalığında görülen mutasyonların Endoplazmik Retikulum ilişkili protein yıkım mekanizması (ERİY) üzerindeki etkilerinin araştırılması, Post Graduate, A.UYGAR(Student), 2010

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

- **HYPERICUM PERFORATUM L.: AN OVERVIEW OF THE ANTICANCER POTENCIES OF THE SPECIMENS COLLECTED FROM DIFFERENT ECOLOGICAL ENVIRONMENTS**  
Gonenc T. M. , Ozturk M., TÜRKSEVEN S. G. , Kirmizibayrak P., Gunal S., Yilmaz S.  
PAKISTAN JOURNAL OF BOTANY, vol.52, pp.1003-1010, 2020 (Journal Indexed in SCI)
- **Microbial Transformation of Cycloastragenol and Astragenol by Endophytic Fungi Isolated from Astragalus Species**  
Ekiz G., Yilmaz S., Yusufoglu H., Kirmizibayrak P., Bedir E.  
JOURNAL OF NATURAL PRODUCTS, vol.82, pp.2979-2985, 2019 (Journal Indexed in SCI)
- **Polyethers isolated from the marine actinobacterium Streptomyces cacaoi inhibit autophagy and induce apoptosis in cancer cells**  
Khan N., Yilmaz S., Aksoy S., Uzel A., Tosun Ç., Kirmizibayrak P., Bedir E.  
CHEMICO-BIOLOGICAL INTERACTIONS, vol.307, pp.167-178, 2019 (Journal Indexed in SCI)
- **PROTEOSTASIS: A European Network to Break Barriers and Integrate Science on Protein Homeostasis**  
Dissmeyer N., Coux O., Rodriguez M., Barrio R., Core G.  
TRENDS IN BIOCHEMICAL SCIENCES, vol.44, pp.383-387, 2019 (Journal Indexed in SCI)
- **Design, synthesis, biological evaluation and molecular docking of novel molecules to PARP-1 enzyme**  
Tok F., Kocyigit-Kaumakoglu B., İlhan R., Yilmaz S., Ballar Kirmizibayrak P., Taskim-Tok T.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, pp.1290-1315, 2019 (Journal Indexed in SCI)
- **Anticancer effects of new dibenzenesulfonamides by inducing apoptosis and autophagy pathways and their carbonic anhydrase inhibitory effects on hCA I, hCA II, hCA IX, hCA XII isoenzymes**  
GÜL H. İ. , YAMALI C., Bulbuler M., Kirmizibayrak P., GÜL M., ANGELI A., BUA S., SUPURAN C. T.  
BIOORGANIC CHEMISTRY, vol.78, pp.290-297, 2018 (Journal Indexed in SCI)
- **Synthesis and evaluation of pyridinium-hydrazone derivatives as potential antitumoral agents**  
Parlar S., Erzurumlu Y., İlhan R., Kirmizibayrak P. B. , Alptüzün V., Erciyas E.  
CHEMICAL BIOLOGY & DRUG DESIGN, vol.92, pp.1198-1205, 2018 (Journal Indexed in SCI)
- **A Src/Abl kinase inhibitor, bosutinib, downregulates and inhibits PARP enzyme and sensitizes cells to the DNA damaging agents**  
Kirmizibayrak P., İLHAN R., Yilmaz S., GUNAL S., Tepedelen B. E.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.43, pp.101-109, 2018 (Journal Indexed

in SCI)

- **Dual-Prevention for UV-Induced Skin Damage: Incorporation of Melatonin-Loaded Elastic Niosomes into Octyl Methoxycinnamate Pickering Emulsions**  
Azizoglu G. A. , Tanriverdi S. T. , Kose F., Kirmizibayrak P., Ozer O.  
AAPS PHARMSCITECH, vol.18, pp.2987-2998, 2017 (Journal Indexed in SCI)
- **The effect of tomatine on metastasis related matrix metalloproteinase (MMP) activities in breast cancer cell model**  
Ozmen Yelken B., Balci T., Yilmaz Süslüer S., Kayabasi C., Biray Avcı Ç., Ballar Kirmizibayrak P., Gündüz C.  
Gene, vol.627, pp.408-411, 2017 (Journal Indexed in SCI Expanded)
- **Androgen Mediated Regulation of Endoplasmic Reticulum-Associated Degradation and its Effects on Prostate Cancer**  
Erzurumlu Y., Ballar P.  
SCIENTIFIC REPORTS, vol.7, 2017 (Journal Indexed in SCI)
- **Electrochemical aptasensor design for label free cytosensing of human non-small cell lung cancer**  
Kara P., Erzurumlu Y., Kirmizibayrak P. B. , Ozsoz M.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.775, pp.337-341, 2016 (Journal Indexed in SCI)
- **Hipoksi Reperfüzyona maruz kalan renal tübüler epitel hücrelerinde mezensefalik astrosit türevi nörotrofik faktör MANF ekspresyonunun araştırılması**  
AYDIN KÖSE F., BALLAR KIRMIZIBAYRAK P., PABUÇÇUOĞLU N. A.  
Turkish Journal Of Biochemistry-Türk Biyokimya Dergisi, vol.40, 2015 (Journal Indexed in SCI Expanded)
- **Synthesis, biological activity screening and molecular modeling study of acylaminoacetamide derivatives**  
ÇOBAN G., Kose F., Kirmizibayrak P., Pabuccuoglu V.  
MEDICINAL CHEMISTRY RESEARCH, vol.24, pp.3710-3729, 2015 (Journal Indexed in SCI)
- **The E3 Ubiquitin Ligase gp78 Protects against ER Stress in Zebrafish Liver**  
CHEN Z., Ballar P., FU Y., Luo J., DU S., FANG S.  
JOURNAL OF GENETICS AND GENOMICS, vol.41, pp.357-368, 2014 (Journal Indexed in SCI)
- **Bioactivity screening of five Centaurea species and in vivo anti-inflammatory activity of C. athoa**  
Erel S. B. , Demir S., Nalbantsoy A., Ballar P., Khan S., Yavasoglu N. U. K. , Karaalp C.  
PHARMACEUTICAL BIOLOGY, vol.52, pp.775-781, 2014 (Journal Indexed in SCI)
- **Evaluation of Alkylating and Intercalating Properties of Mannich Bases for Cytotoxic Activity**  
İSTANBULLU H., ERZURUMLU Y., Kirmizibayrak P., ERCİYAS E.  
LETTERS IN DRUG DESIGN & DISCOVERY, vol.11, pp.1096-1106, 2014 (Journal Indexed in SCI)
- **A unique IBMPFD-related P97/VCP mutation with differential binding pattern and subcellular localization**  
ERZURUMLU Y., Kose F., GÖZEN O., Gozuacik D., TOTH E. A. , Ballar P.  
INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY, vol.45, pp.773-782, 2013 (Journal Indexed in SCI)
- **Synthesis and cytotoxic activity of some 2-(2,3-dioxo-2,3-dihydro-1H-indol-1-yl)acetamide derivatives**  
AKGÜL Ö., Tarikogullari A. H. , AYDIN KÖSE F., KIRMIZIBAYRAK PETEK B., PABUÇÇUOĞLU M. V.  
TURKISH JOURNAL OF CHEMISTRY, vol.37, pp.204-212, 2013 (Journal Indexed in SCI)
- **Synthesis and cytotoxic activity of some 2-(2,3-dioxo-2,3-dihydro-1H-indol-1-yl)acetamide derivatives**  
Akgül Ö., Tarikogullari A. H. , Aydın Köse F., Ballar Kirmizibayrak P., Pabuççuoğlu M. V.  
TURKISH JOURNAL OF CHEMISTRY, vol.37, pp.204-212, 2013 (Journal Indexed in SCI)
- **Electrochemical based detection of microRNA, mir21 in breast cancer cells**  
Kilic T., TOPKAYA S. N. , Ariksoysal D., OZSOZ M., Ballar P., ERAÇ Y., GÖZEN O.  
BIOSENSORS & BIOELECTRONICS, vol.38, pp.195-201, 2012 (Journal Indexed in SCI)
- **Importin beta Interacts with the Endoplasmic Reticulum-associated Degradation Machinery and Promotes Ubiquitination and Degradation of Mutant alpha 1-Antitrypsin**  
ZHONG Y., WANG Y., YANG H., Ballar P., LEE J., YE Y., MONTEIRO M. J. , FANG S.  
JOURNAL OF BIOLOGICAL CHEMISTRY, vol.286, pp.33921-33930, 2011 (Journal Indexed in SCI)
- **SVIP Induces Localization of p97/VCP to the Plasma and Lysosomal Membranes and Regulates Autophagy**  
WANG Y., Ballar P., ZHONG Y., Zhang X., LIU C., ZHANG Y., MONTEIRO M. J. , Li J., FANG S.

PLOS ONE, vol.6, 2011 (Journal Indexed in SCI)

- **Different p97/VCP complexes function in retrotranslocation step of mammalian Er-associated degradation (ERAD)**

Ballar P., Pabuccuoglu A., Kose F. A.

INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY, vol.43, pp.613-621, 2011 (Journal Indexed in SCI)

- **Synthesis and screening of cyclooxygenase inhibitory activity of some 1,3-dioxoisindoline derivatives**

Cizmecioglu M., Pabuccuoglu V., Ballar P., Pabuccuoglu A., SOYER Z.

ARZNEIMITTEL-FORSCHUNG-DRUG RESEARCH, vol.61, pp.186-190, 2011 (Journal Indexed in SCI)

- **Phenolic Glycosides with antiproteasomal activity from *Centaurea urvillei* DC. subsp *urvillei***

GÜLCEMAL D., Alankus-Caliskan Ö., KARAALP C., ÖRS A. U. , Ballar P., BEDIRD E.

CARBOHYDRATE RESEARCH, vol.345, pp.2529-2533, 2010 (Journal Indexed in SCI)

- **Differential regulation of CFTR Delta F508 degradation by ubiquitin ligases gp78 and Hrd1**

Ballar P., ÖRS A. U. , YANG H., FANG S.

INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY, vol.42, pp.167-173, 2010 (Journal Indexed in SCI)

- **THE FIRST IDENTIFIED ENDOGENOUS ENDOPLASMIC RETICULUM (ER)-ASSOCIATED DEGRADATION (ERAD) INHIBITOR: SVIP**

Ballar P., ZHONG Y., SHEN Y., FANG S.

IUBMB LIFE, vol.61, pp.310, 2009 (Journal Indexed in SCI)

- **UBIQUITIN LIGASES AS TARGETS FOR DRUG DISCOVERY**

FANG S., Ballar P.

IUBMB LIFE, vol.61, pp.310, 2009 (Journal Indexed in SCI)

- **Regulation of ER-associated degradation via p97/VCP-interacting motif**

Ballar P., FANG S.

BIOCHEMICAL SOCIETY TRANSACTIONS, vol.36, pp.818-822, 2008 (Journal Indexed in SCI)

- **Identification of SVIP as an endogenous inhibitor of endoplasmic reticulum-associated degradation**

Ballar P., ZHONG Y., NAGAHAMA M., TAGAYA M., SHEN Y., FANG S.

JOURNAL OF BIOLOGICAL CHEMISTRY, vol.282, pp.33908-33914, 2007 (Journal Indexed in SCI)

- **Ubiquitin ligase Hrd1 enhances the degradation and suppresses the toxicity of polyglutamine-expanded huntingtin**

YANG H., ZHONG X., Ballar P., LUO S., SHEN Y., RUBINSZTEIN D. C. , MONTEIRO M. J. , FANG S.

EXPERIMENTAL CELL RESEARCH, vol.313, pp.538-550, 2007 (Journal Indexed in SCI)

- **ER stress differentially regulates the stabilities of ERAD ubiquitin ligases and their substrates**

SHEN Y., Ballar P., APOSTOLOU A., DOONG H., FANG S.

BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.352, pp.919-924, 2007 (Journal Indexed in SCI)

- **The role of a novel p97/valosin-containing protein-interacting motif of gp78 in endoplasmic reticulum-associated degradation**

Ballar P., SHEN Y., YANG H., FANG S.

JOURNAL OF BIOLOGICAL CHEMISTRY, vol.281, pp.35359-35368, 2006 (Journal Indexed in SCI)

- **Ubiquitin ligase gp78 increases solubility and facilitates degradation of the Z variant of alpha-1-antitrypsin**

SHEN Y., Ballar P., FANG S.

BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.349, pp.1285-1293, 2006 (Journal Indexed in SCI)

- **Ubiquitin ligase gp78 increases solubility and facilitates degradation of the Z variant of alpha-1-antitrypsin**

Shen Y., Ballar P., Fang S.

ACTA PHARMACOLOGICA SINICA, vol.27, pp.252, 2006 (Journal Indexed in SCI)

- **The DNA-binding specificity of the *Bacillus anthracis* AbrB protein**

STRAUCH M., Ballar P., ROWSHAN A., ZOLLER K.

MICROBIOLOGY-SGM, vol.151, pp.1751-1759, 2005 (Journal Indexed in SCI)

- **AAA ATPase p97/valosin-containing protein interacts with gp78, a ubiquitin ligase for endoplasmic reticulum-associated degradation**

ZHONG X., SHEN Y., Ballar P., APOSTOLOU A., AGAMI R., FANG S.

JOURNAL OF BIOLOGICAL CHEMISTRY, vol.279, pp.45676-45684, 2004 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Design, synthesis and evaluation of biological activities of some new carbonylhydrazone and urea derivatives**

Tok F., İlhan R., Gunal S., Ballar Kırmızıbayrak P., Kaymakçıoğlu B.

Turkish Journal of Pharmaceutical Sciences, vol.15, pp.304-308, 2018 (Refereed Journals of Other Institutions)

- **Endoplazmik retikulum-aracılı protein yıkım yolağında görev yapan p97/vcp ve ufd1-npl4 adlı proteinlerin nf-kb yolağına etkisinin prostat kanser hücre hattında incelenmesi**

Ballar Kırmızıbayrak P., Erbaykent Tepedelen B.

EGE TIP DERGİSİ / EGE JOURNAL OF MEDICINE, vol.57, pp.142-146, 2018 (Other Refereed National Journals)

- **Antiproliferative activity of some tautomeric hydrazones derived from chalcones**

TOK F., Beyhan N., ERZURUMLU Y., İLHAN R., Ballar P., Kocyigit-Kaymakcioglu B.

MARMARA PHARMACEUTICAL JOURNAL, vol.20, pp.157-163, 2016 (Journal Indexed in ESCI)

- **Antioxidant activities of phenolic compounds of Centaurea ensiformis P H Davis**

Baykan Ş., Ballar Kırmızıbayrak P., Karaalp C.

TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.11, 2014 (Journal Indexed in ESCI)

- **VCP valosin containing protein 2013; 17(8): 550-556.**

Yalçın E., İlhan R., Gözen O., Ballar Kırmızıbayrak P.

Atlas of Genetics and Cytogenetics in Oncology and Haematology, vol.17, pp.550-556, 2013 (Refereed Journals of Other Institutions)

- **AMFR autocrine motility factor receptor**

Yalçın E., Ballar Kırmızıbayrak P.

ATLAS of GENETICS and CYTOGENETICS in ONCOLOGY and HAEMATOLOGY, vol.16, pp.25-29, 2012 (Refereed Journals of Other Institutions)

- **Introduction to Molecular Biology Related to Electrochemical DNA-Based Biosensors**

ERZURUMLU Y., Ballar P.

ELECTROCHEMICAL DNA BIOSENSORS, pp.499-515, 2012 (Refereed Journals of Other Institutions)

- **In vitro cytotoxic properties of six Artemisia species**

Baykan Erel Ş., Şenol S. G. , Aydın Köse F., Ballar Kırmızıbayrak P.

Turkish Journal of Pharmaceutical Sciences, vol.8, pp.247-252, 2011 (Journal Indexed in ESCI)

- **Site-Directed Mutagenesis**

Carrigan P. E. , Ballar P., TÜZMEN S.

DISEASE GENE IDENTIFICATION: METHODS AND PROTOCOLS, vol.700, pp.107-124, 2011 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- **Endoplasmic Reticulum-Associated degradation**

Ballar Kırmızıbayrak P., Tepedelen B. E.

in: Endoplasmic Reticulum, Angel Catala, Editor, Intech Open, London, pp.470-491, 2019

- **Endoplasmic Reticulum-Associated Degradation (ERAD)**

Tepedelen B. E. , Ballar Kırmızıbayrak P.

in: Endoplasmic Reticulum, Angel Català, Editor, IntechOpen, London, pp.1-22, 2019

- **Hücresel Zarlar ve Hücre İçi Protein Trafikçi**

ERBAYKENT TEPEDELEN B., BALLAR KIRMIZIBAYRAK P.

in: Enfeksiyon Patogenezi ve Bağışıklık, , Editor, Akademi, 2015

- **Endositoz ve Fagositoz**

ERBAYKENT TEPEDELEN B., BALLAR KIRMIZIBAYRAK P.

in: Enfeksiyon Patogenezi ve Bağışıklık, , Editor, Akademi, 2015

- **Introduction to Molecular Biology Related to Electrochemical DNA-Based Biosensors**  
Erzurumlu Y., Ballar Kirmizibayrak P.  
in: Electrochemical DNA Biosensors, , Editor, Pan Stanford Publishing, Massachusetts, 2012
- CARRIGAN P., BALLAR KIRMIZIBAYRAK P., TÜZMEN Ş.  
in: Methods in Molecular Biology Disease Gene Identification, , Editor, Humana Press, 2011

## Refereed Congress / Symposium Publications in Proceedings

- **A new semi-synthetic sapogenol derivative inducing regulated necrosis**  
Uner G., Ballar-Kirmizibayrak P., Bedir E.  
67th International Congress and Annual Meeting of the Society-for-Medicinal-Plant-and-Natural-Product-Research (GA), Innsbruck, Austria, 1 - 05 September 2019, vol.85, pp.1507
- **Synthesis and Bioactivity Studies of Some Naphthoquinone Derivatives**  
UYSAL Ş., SOYER Z., İLHAN R., BALLAR KIRMIZIBAYRAK P.  
MMCS2019, 2nd Molecules Medicinal Chemistry Symposium, 15 - 17 May 2019
- **Polyethers compounds isolated from the marine actinobacterium Streptomyces cacaoi induce apoptosis and inhibit autophagy in HeLa cell line**  
YILMAZ S., KHAN N., Çetinel s., TOSUN Ç., BALLAR KIRMIZIBAYRAK P., BEDİR E.  
2nd International Cell Death Research Congres, 1 - 04 November 2018
- **Design, synthesis and biological evaluation of nicotinate derivatives for cancer therapy**  
TOK F., KAYMAKÇIOĞLU B., GUNAL S., İLHAN R., BALLAR KIRMIZIBAYRAK P.  
12th International Symposium on Pharmaceutical Sciences-ISOPS 2018, 26 - 29 June 2018
- **SYNTHESIS AND CYTOTOXIC ACTIVITY OF SOME QUINOXALINE DERIVATIVES**  
SOYER Z., UYSAL Ş., TARIKOĞULLARI DOĞAN A. H. , İLHAN R., BALLAR KIRMIZIBAYRAK P.  
ISOPS-12, 26 - 29 June 2018, no.1
- **Potansiyel Proteazom İnhibitörü Bir Grup Karbosiklik ve Heterosiklik Bileşiğın Sentez ve Biyoaktivite Çalışmaları**  
UYSAL Ş., SOYER Z., İLHAN R., BALLAR KIRMIZIBAYRAK P.  
V. Ulusal Farnasötik Kimya Kongresi, Erzurum, Turkey, 28 April 2018, vol.1, no.1, pp.15
- **POTANSİYEL PROTEAZOM İNHİBİTÖRÜ BİR GRUP KARBOSİKLİK ve HETEROSİKLİK BİLEŞİĞİN SENTEZ ve BİYOAKTİVİTE ÇALIŞMALARI**  
UYSAL Ş., İLHAN R., BALLAR KIRMIZIBAYRAK P., SOYER Z.  
V. ULUSAL FARMASÖTİK KİMYA KONGRESİ, Turkey, 28 April - 01 May 2018
- **Regulation of ERAD through Androgen Signaling in Prostate Cancer**  
ERZURUMLU Y., BALLAR KIRMIZIBAYRAK P.  
Proteostatic Mechanisms in Health and Disease, Atina, Greece, 22 February 2018, pp.20
- **Regulation of AR Signaling by ER Stress Inducers in Prostate Cancer**  
ERZURUMLU Y., GUNAL S., BALLAR KIRMIZIBAYRAK P.  
Proteostatic Mechanisms in Health and Disease, Greece, 21 - 24 February 2018
- **Potential Therapeutic Utility of ERAD Inhibitors in Prostate Cancer**  
GUNAL S., ERZURUMLU Y., İLHAN R., BALLAR KIRMIZIBAYRAK P.  
Proteostatic Mechanisms in Health and Disease, Greece, 21 - 24 February 2018
- **Targeting Endoplasmic Reticulum-associated degradation (ERAD) in prostate cancer**  
İLHAN R., Erzurumlu Y., GUNAL S., BALLAR KIRMIZIBAYRAK P.  
Proteostatic Mechanisms in Health and Disease, 08 February 2018
- **Effect of a New Sapogenol Derivative (AG-07) on Cell Death via Necrosis**  
ERZURUMLU Y., TAĞ Ö., BALLAR KIRMIZIBAYRAK P., BEDİR E.  
International Conference on Natural Products for Cancer Prevention and Therapy, 8 - 11 November 2017
- **Antibiotic and anti-inflammatory drug combinations: alterations on the expression of virulence genes and protein a of Staphylococcus aureus**  
ÖZTÜRK İ., ERAÇ Y., BALLAR KIRMIZIBAYRAK P., ERMERTCAN Ş.

10th BALKAN CONGRESS OF MICROBIOLOGY, 16 - 18 November 2017

- **Yeni PARP İnhibitör Bileşiklerinin Taranması**

GUNAL S., İLHAN R., YILMAZ S., BALLAR KIRMIZIBAYRAK P., ERBAYKENT TEPEDELEN B.

ULUSAL TIBBİ BİYOLOJİ VE GENETİK KONGRESİ, Turkey, 26 - 29 October 2017

- **CYTOTOXICITY OF SOME NEW CARBOHYDRAZIDE AND UREADERIVATIVES BEARING PYRIDINE RING**

TOK F., İLHAN R., GUNAL S., BALLAR KIRMIZIBAYRAK P., KAYMAKÇIOĞLU B.

2th International Gazi Pharma Symposium Series, 11 - 13 October 2017

- **Prostat kanserinde yeni bir oyuncu: ERAD (A new player on prostate cancer)**

BALLAR KIRMIZIBAYRAK P.

International Biochemistry Congress – 2017 /28 th National Biochemistry Congress, 20 - 23 September 2017

- **ERAD: A New Player on Prostate Cancer**

ERZURUMLU Y., ERBAYKENT TEPEDELEN B., BALLAR KIRMIZIBAYRAK P.

Uluslararası Biyokimya kongresi, 19 - 23 September 2017

- **ERAD inhibisyonunun hormon yokluğu ile kombinasyonunun prostat kanseri hücrelerindeki etkisi**

İLHAN R., ERZURUMLU Y., GUNAL S., ERBAYKENT TEPEDELEN B., BALLAR KIRMIZIBAYRAK P.

Uluslararası Biyokimya Kongresi, 19 - 23 September 2017

- **Development of nanofiber functionalized aptasensor for electrochemical Detection of cancer cells**

Kıvrak E., İNCE YARDIMCI A., İLHAN R., BALLAR KIRMIZIBAYRAK P., YILMAZ S., KARA KADAYIFÇILAR P., Kıvrak E.

VIII. International Congress on Analytical Nanoscience and Nanotechnology, Spain, 3 - 05 July 2017

- **Nazal polip fibroblastlarında TNF-alfa inhibitörlerinin etkisi**

TOKA A., GÜNEL C., BALLAR KIRMIZIBAYRAK P.

13.Rinoloji kongresi, 4 - 07 May 2017

- **Anti-inflammatory drugs alter susceptibility and expression of virulence genes and proteins of staphylococci**

OZTURK İ., ERAÇ Y., BALLAR KIRMIZIBAYRAK P., ERMERTCAN Ş.

European Congress of Clinical Microbiology and Infectious Diseases ECCMID 2017, 22 - 25 April 2017

- **Niosomes vs Microemulsions: Comparison of the Two Drug Delivery Systems for a Combination Formulation Targeting UV-Induced Skin Damage**

ARSLAN AZİZOĞLU G., TUNCAY TANRIVERDİ S., AZİZOĞLU E., BALLAR KIRMIZIBAYRAK P., ÖZER K. Ö.

2nd European Conference on Pharmaceutics: Novel dosage forms, innovative technologies, Krakow, Poland, 3 - 04 April 2017

- **Androgen-mediated regulation of ER-associated degradation in prostate cancer**

ERZURUMLU Y., BALLAR KIRMIZIBAYRAK P.

3rd PROTEOSTASIS Action Meeting, Proteostasis and its Biological Implications, Lizbon, Portugal, 02 November 2016, pp.35

- **The effect of R1881 and tunicamycin on the expression levels of SOD1, Catalase and Nrf2 in LNCaP prostate cancer cell line.**

ERZURUMLU Y., BALLAR KIRMIZIBAYRAK P.

FEBS Advanced Lecture Course on Redox Regulation of Metabolic Processes, Spetses, Greece, 19 September 2016, pp.17

- **Safety Assessment and Antioxidant Activity Screening of Melatonin Loaded Elastic Niosomes Incorporated into Octyl Methoxycinnamate Pickering Emulsion**

ARSLAN AZİZOĞLU G., TUNCAY TANRIVERDİ S., AYDIN KÖSE F., BALLAR KIRMIZIBAYRAK P., ÖZER K. Ö.

International Pharmaceutical Technology Symposium, 18 - 21 September 2016

- **Batı Anadolu'da yayılış gösteren bazı Hypecoum L. Taksonları üzerinde Kimyasal ve sitotoksik aktivite çalışmaları**

AKTAR S., BALLAR KIRMIZIBAYRAK P., ELGİN CEBE G.

XXII. Bitkisel İlaç Hammaddeleri Toplantısı, Trabzon, Turkey, 31 August 2016, pp.99

- **MANF may attenuate hypoxia/reperfusion-induced renal cell injury**

Kose F., Kirmizibayrak P. B. , Pabuccuoglu A.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.210

- **Investigation of MANF expression in renal tubular epithelial cells exposed to hypoxia reperfusion**  
AYDIN KÖSE F., BALLAR KIRMIZIBAYRAK P., PABUÇÇUOĞLU N. A.  
27. NATIONAL BIOCHEMISTRY CONGRESS, Antalya, Turkey, 03 November 2015
- **Anticancer activity of some tautomeric hydrazones derived from chalcones.**  
TOK F., BEYHAN N., İLHAN R., BALLAR KIRMIZIBAYRAK P., KAYMAKÇIOĞLU B.  
6th BBBB Conference on Pharmaceutical Sciences, Helsinki, Finland, 10 September 2015, pp.100
- **Oxidative/nitrosative stress and endoplasmic reticulum stress in ischemic acute renal failure**  
Kose F., Kirmizibayrak P. B. , Pabuccuoglu A.  
40th Congress of the Federation-of-European-Biochemical-Societies (FEBS) - The Biochemical Basis of Life, Berlin, Germany, 4 - 09 July 2015, vol.282, pp.314
- **Synthesis and Cytotoxic Activity of Some N-substituted-5-chloro-2(3H)-benzoxazolone derivatives**  
SOYER Z., UYSAL Ş., ERZURUMLU Y., BALLAR KIRMIZIBAYRAK P.  
11th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 09 June 2015, pp.312-313
- **Synthesis and Cytotoxic activity of some N substituted 5 chloro 2 3H benzoxazolone Derivatives**  
SOYER Z., UYSAL Ş., ERZURUMLU Y., BALLAR KIRMIZIBAYRAK P.  
11th International Symposium on Pharmaceutical Sciences, 9 - 11 June 2015
- **Synthesis and Cytotoxic activity of Some Heterocyclic Compounds**  
Uysal Ş., Çizmeçioğlu M. M. , Soyer Z., Yalçın E., Ballar Kirmizibayrak P.  
11th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 9 - 12 June 2015
- **Meme Kanseri Hücre Modelinde Tomatinin Etkisinin Değerlendirilmesi**  
ÖZMEN YELKEN B., YILMAZ SÜSLÜER S., KAYABAŞI Ç., BALCI T., BİRAY AVCI Ç., BALLAR KIRMIZIBAYRAK P., GÜNDÜZ C.  
Ege Hematoloji Onkoloji Kongresi, Turkey, 13 - 15 March 2015
- **Identifying novel physical and functional interaction patterns in mammalian ER-associated degradation.**  
ERZURUMLU Y., AYDIN KÖSE F., ÖRS A. U. , BALLAR KIRMIZIBAYRAK P.  
III. International Congress of the Molecular Biology Association, İzmir, Turkey, 10 September 2014, pp.45
- **Cytotoxic, antioxidant, antiinflammatory capacities of five Centaurea L. species and in vivo antiinflammatory evaluation of C. athena**  
BAYKAN Ş., DEMİR S., NALBANTSOY A., BALLAR KIRMIZIBAYRAK P., KHAN S., KARAALP C., KARABAY YAVAŞOĞLU N. Ü.  
10th International Symposium on Pharmaceutical Sciences (ISOPS), 1 - 05 October 2012
- **Kıbrıs endemiği Anthemis tricolor'xxun sitotoksik aktivite çalışması**  
BAYKAN Ş., GÜCEL S., AYDIN KÖSE F., BALLAR KIRMIZIBAYRAK P., NALBANTSOY A.  
21.Ulusal Biyoloji Kongresi, Turkey, 3 - 07 September 2012
- **Kıbrıs endemiği Anthemis tricolor un sitotoksik aktivite çalışması**  
BAYKAN EREL Ş., GÜCEL S., AYDIN KÖSE F., BALLAR KIRMIZIBAYRAK P., NALBANTSOY A.  
21. Ulusal Biyoloji Kongresi, Turkey, 3 - 07 September 2012
- **Cytotoxic, antioxidant, antiinflammatory capacities of five Centaurea L. Species and in vivo anti-inflammatory evaluation of Centaurea Athoa**  
Baykan Ş., Demir S., Nalbantsoy A., Ballar Kirmizibayrak P., Khan S., Karaalp C., Karabay Yavaşıoğlu N. Ü.  
10th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 26 June 2012
- **Farklı Memeli Hücre Hatlarında Protein Nitrasyonunun Araştırılması**  
AYDIN KÖSE F., BALLAR KIRMIZIBAYRAK P., PABUÇÇUOĞLU N. A.  
XXIII. Ulusal Biyokimya Kongresi, Turkey, 29 November - 02 December 2011
- **Differential Regulation and Complex Composition In GP78 AND HRD1 Mediated Er Associated Degradation**  
BALLAR KIRMIZIBAYRAK P., AYDIN KÖSE F., PABUÇÇUOĞLU N. A.  
EMBO Workshop on Intracellular Proteolysis Cancer, 26 - 28 October 2011
- **Cytotoxic activities of five Centaurea L. species from Anatolia**  
BAYKAN Ş., DEMİR S., AYDIN KÖSE F., BALLAR KIRMIZIBAYRAK P., KARAALP C.  
59th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, 4 - 09 September 2011
- **Cytotoxic properties of five Centaurea L species from Anatolia**



BAYKAN EREL Ş., DEMİR S., AYDIN KÖSE F., BALLAR KIRMIZIBAYRAK P., KARAALP C.

59th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, 4 - 09 September 2011, vol.12

- **Cytotoxic properties of five *Centaurea L.* species from Anatolia**  
EREL B. S. , DEMİR S., KÖSE A., Ballar P., KARAALP C.  
59th International Congress and Annual Meeting of the Society-for-Medicinal-Plant-and-Natural-Product-Research, Antalya, Turkey, 4 - 09 September 2011, vol.77, pp.1436
- **SYNTHESIS AND CYTOTOXIC ACTIVITY OF SOME 3 ACYLAMINO PROPIONANILIDE DERIVATIVES**  
UYSAI Ş., BALLAR KIRMIZIBAYRAK P., SOYER Z.  
IMMPC-ISPC JOINT MEETING, 30 September - 02 October 2010
- **Role of IBMPFD-associated VCP mutations on ERAD pathway**  
ÖRS A. U. , BALLAR KIRMIZIBAYRAK P.  
International Postgraduate Student Meeting on Pharmaceutical Sciences, İzmir, Turkey, 24 June 2010, pp.79
- **Cytotoxic activities of *Artemisia L.* species in MCF7 breast cancer cells**  
ARSLAN AZİZOĞLU G., BAYKAN Ş., BALLAR KIRMIZIBAYRAK P.  
International Postgraduate Student Meeting on Pharmaceutical Sciences (IPSMPS), 24 - 27 June 2010
- **Synthesis and screening of cyclooxygenase inhibitory activity of some amide derivatives**  
SOYER Z., AKGÜL Ö., BALLAR KIRMIZIBAYRAK P.  
International Postgraduate Student Meeting on Pharmaceutical Sciences, İzmir, Turkey, 24 June 2010, pp.61
- **The synthesis and proteasome inhibitory activity of some alkanamide derivatives**  
AKGÜL Ö., TARIKOĞULLARI DOĞAN A. H. , BALLAR KIRMIZIBAYRAK P., AYDIN KÖSE F., SOYER Z.  
International Postgraduate Student Meeting on Pharmaceutical Sciences, 24 - 27 June 2010
- **Analysis of the ubiquitin ligases gp78- and Hrd1-mediated ERAD pathways by RNA interference.**  
BALLAR KIRMIZIBAYRAK P., ZHONG Y., FANG S.  
EMBO Conference: Ubiquitin and Ubiquitin-like Modifiers in Health and Disease, Riva Del Garda, Italy, 22 September 2009, pp.46
- **Antioxidant compounds from endemic *Centaurea ensiformis* P.H. Davis**  
BAYKAN Ş., BALLAR KIRMIZIBAYRAK P., KARAALP C.  
9th International Symposium on Pharmaceutical Sciences (ISOPS), 23 - 26 June 2009
- **Analysis of differences in retrotranslocation machineries of gp78- and Hrd1-mediated ERAD pathways by RNA interference”**  
BALLAR KIRMIZIBAYRAK P., FANG S.  
The Fourth Intracellular proteolysis meeting: Ubiquitin-Proteasome system, dynamics and targeting, Barcelona, Spain, 27 May 2009, pp.20
- **The role of a novel p97/VCP interacting motif (VIM) in ER-associated degradation.**  
BALLAR KIRMIZIBAYRAK P., YANG H., SHEN Y., FANG S.  
Biochemical Society, “The Third Intracellular proteolysis meeting, Tenerife, Canary Islands, Spain, 05 March 2008, pp.7
- **SVIP regulates ER-associated degradation through sequestering p97/VCP and Derlin1 away from gp78**  
BALLAR KIRMIZIBAYRAK P., Wang Y., NAGAHAMA M., TAGAYA M., SHEN Y., FANG S.  
7th International Conference on AAA Proteins, Cirencester, United Kingdom, 09 September 2007
- **SVIP inhibits ERAD by uncoupling Derlin1 and p97/VCP from gp78.**  
BALLAR KIRMIZIBAYRAK P., Wang Y., NAGAHAMA M., TAGAYA M., SHEN Y., FANG S.  
FASEB Summer Research Conferences: “From Unfolded Proteins in the Endoplasmic Reticulum to Disease”, Indian Wells, United States Of America, 28 July 2007, pp.3
- **SVIP serves as a brake for gp78-mediated degradation of misfolded ER proteins.**  
BALLAR KIRMIZIBAYRAK P., SHEN Y., NAGAHAMA M., TAGAYA M., Wang Y., FANG S.  
29th Annual Graduate Research Conference, Baltimore, United States Of America, 02 April 2005, pp.10
- **Supresin, An ER Stress Upregulated Protein, Inhibits Cell Growth And Protects Cells Against ER Stress-Induced Cell Death.**  
APOSTOLOU A., BALLAR KIRMIZIBAYRAK P., FANG S.  
29th Annual Graduate Research Conference, Baltimore, United States Of America, 20 April 2007, pp.13
- **SVIP interacts with Derlin1 and regulates ER-associated degradation**

Ballar P., SHEN Y., ZHONG Y., NAGAHAMA M., TAGAYA M., APOSTOLOU A., FANG S.

Experimental Biology 2007 Annual Meeting, Washington, Kiribati, 28 April - 02 May 2007, vol.21

- **A novel p97/VCP-interacting motif (VIM) of gp78 mediates a Ufd1-independent ER-associated degradation (ERAD)**

Ballar P., Shen Y., Yang H., Fang S.

Experimental Biology 2007 Annual Meeting, Washington, Kiribati, 28 April - 02 May 2007, vol.21

- **The extended quality control role of the ER-anchored ubiquitin ligase Hrd1 in the targeting of expanded huntingtin for degradation**

YANG H., ZHONG X., Ballar P., LUP S., SHEN Y., RUBINSZTEIN D. C. , MONTEIRO M. J. , FANG S.

Experimental Biology 2007 Annual Meeting, Washington, Kiribati, 28 April - 02 May 2007, vol.21

- **A novel p97/VCP-interacting motif (VIM) of gp78 mediates a Ufd1-independent ER-associated degradation (ERAD).**

BALLAR KIRMIZIBAYRAK P., SHEN Y., YANG H., FANG S.

Keystone Symposia on Molecular and Cellular Biology: Ubiquitin and Signaling, Montana, United States Of America, 03 February 2007, pp.47

- **Ubiquitin ligase gp78 mediates a Ufd1-independent ER-associated degradation.**

BALLAR KIRMIZIBAYRAK P., SHEN Y., YANG H., FANG S.

31st FEBS Congress, İstanbul, Turkey, 24 June 2006, pp.59

- **Ubiquitin ligase gp78 mediates an Ufd1-independent pathway of ER-associated degradation**

Ballar P., SHEN Y., YANG H., FANG S.

31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.59

- **Synergistic effect of ubiquitinating enzymes and ER stress in ERAD.**

APOSTOLOU A., SHEN Y., BALLAR KIRMIZIBAYRAK P., FANG S.

Experimental Biology Meeting, San Diego, United States Of America, 31 March 2005, pp.187

- **The ubiquitin ligase gp78 increases solubility and facilitates degradation of the Z variant of a-1-antitrypsin**

Shen Y., Ballar P., Monteiro M.

Experimental Biology 2005 Meeting/35th International Congress of Physiological Sciences, California, United States Of America, 31 March - 06 April 2005, vol.19

- **gp78, more than a ubiquitin ligase (E3) for the ER-associated degradation (ERAD)**

Ballar P., ZHONG X., SHEN Y., APOSTOLOU A., AGAMI R., FANG S.

Experimental Biology 2005 Meeting/35th International Congress of Physiological Sciences, California, United States Of America, 31 March - 06 April 2005, vol.19

## Supported Projects

Ballar Kırmızıbayrak P., TÜBİTAK Project, Yeni Yarı-Sentetik Sapogenol Türevi Ag-08'in Otofaji İnhibisyonu, Proteaz Aktivasyonu ve Hücre Ölümüne Etkisinin Değerlendirilmesi, 2018 - 2020

Ballar Kırmızıbayrak P., Gözen O., TÜBİTAK Project, Endoplazmik Retikulum aracılı yıkım yolağı endojen inhibitörü olan SVIP'in adrenal korteksteki fonksiyonunun araştırılması, 2017 - 2020

BALLAR KIRMIZIBAYRAK P., Project Supported by Higher Education Institutions, ERAD'IN ANDROJEN TEMELLİ HORMONAL REGÜLASYONUNUN VE BU REGÜLASYONUN PROSTAT KANSERİ GELİŞİMİNDEKİ ROLÜNÜN ARAŞTIRILMASI, 2016 - 2018

Ballar Kırmızıbayrak P., Kaymakçioğlu B., TÜBİTAK Project, Poli(ADP-Riboz) Polimeraz-1 (PARP-1) İnhibitörü yeni karbazid ve üre türevlerinin tasarımı, sentezi ve aktivitelerinin incelenmesi, 2016 - 2018

Ballar Kırmızıbayrak P., Tepedelen B. E. , TÜBİTAK Project, ERAD in Androjen Temelli Hormonal Regülasyonunun Ve Bu Regülasyonun Prostat Kanseri Gelişimindeki Rolünün Araştırılması, 2014 - 2018

BALLAR KIRMIZIBAYRAK P., TÜBİTAK Project, Sik2'nin Endoplazmik Retikulum Stresindeki Rolü ve İlişkili Metabolik Etkilerinin Araştırılması, 2012 - 2017

Ermertcan Ş., Ballar Kırmızıbayrak P., Eraç Y., TÜBİTAK Project, Stafilokok Kökenlerinin Transkriptomları ve Proteinleri Üzerine Çeşitli Antimikrobiyallerin Antiinflamatuvar ve Analjezik Etkili Maddelerin Etkilerinin Araştırılması, 2014 - 2016

BALLAR KIRMIZIBAYRAK P., TÜBİTAK Project, Hepatoselüler karsinom hücre dizilerinde Hepatosit Büyüme Faktörü

tarafından uyarılan hücre invazyonu ve motilitesinin heparin tarafından inhibisyonunun moleküler mekanizması, 2011 - 2013

BALLAR KIRMIZIBAYRAK P., TUBITAK Project, Hücre içi protein yıkımından sorumlu temel mekanizmalar olan otofaji ve übikitin proteazom sistemleri arasındaki bağlantı ve iletişimin araştırılması, 2010 - 2013

Selli Karakaya Ç., Eraç Y., Ballar Kırmızıbayrak P., Tosun M., TUBITAK Project, İnsan primer aortik düz kas hücrelerinde TRPC iyon kanal genlerinin post transkripsiyonel kontrolü ile ilişkili miRNA ekspresyon kalıbının işlevsel genomik analizi, 2010 - 2013

Ballar Kırmızıbayrak P., FP7 Project, Expanding the knowledge on mammalian Endoplasmic Reticulum-Associated Degradation (ERAD), 2009 - 2013

BALLAR KIRMIZIBAYRAK P., Project Supported by Higher Education Institutions, MEMELİ HÜCRELERİNDE ENDOPLAZMİKRETİKULUMİLİŞKİLİ PROTEİN YIKIMI(ERİY)MEKANİZMASININ SUBSTRATA SPESİFİK FARKLILIKLARININ VE REGÜLASYONUNUN İNCELENMESİ, 2009 - 2011

Ballar Kırmızıbayrak P., Soyer Z., TUBITAK Project, Bir Grup Ftalimidoalkanamit Türevi Bileşiklerin Sentezi ve Biyolojik Aktivitelerinin Tayin Edilmesi, 2008 - 2009

## Patent

Bedir E., Ballar Kırmızıbayrak P., Ekiz G., Yılmaz S., Küçüksoğak M., Duman S., TELOMERAZ AKTİVATÖRLERİNİN ÜRETİM YÖNTEMİ VE BU YÖNTEMLE ELDE EDİLEN TELOMERAZ AKTİVATÖRLERİ, Patent, CHAPTER A Human Needs, Initial Registration, 2019

## Activities in Scientific Journals

Journal of Basic and Clinical Health Sciences, Committee Member, 2019 - Continues

ISRN Cell Biology, Committee Member, 2013 - 2017

New Journal of Science: Molecular Biology, Committee Member, 2013 - 2017

## Memberships / Tasks in Scientific Organizations

Member, 2013 - Continues

Member, 2008 - Continues

Member, 2008 - Continues

Member, 2007 - Continues

Member, 2002 - Continues

Member, 2002 - Continues

Secretary General, 2011 - 2013

## Scientific Refereeing

FRONTIERS IN IMMUNOLOGY, SCI Journal, September 2019

Project Supported by Higher Education Institutions, BAP Research Project, Ege University, Turkey, September 2019  
October 2018

Seminars in Cell and Developmental Biology, SCI Journal, August 2018

Evolutionary Bioinformatics, SCI Journal, June 2018

TUBITAK Project, June 2018

TUBITAK Project, May 2018

TUBITAK Project, May 2018

Life Sciences, SCI Journal, April 2018

Oncotarget, SCI Journal, March 2018

Project Supported by Higher Education Institutions, March 2018

Life Sciences, SCI Journal, February 2018  
Turkish Journal of Biochemistry, SCI Journal, January 2018  
December 2017  
TUBITAK Project, October 2017  
Turkish Journal of Biochemistry, SCI Journal, August 2017  
August 2017  
Life Sciences, SCI Journal, June 2017  
Oncotarget, SCI Journal, May 2017  
Current Molecular Medicine, SCI Journal, April 2017  
Life Sciences, SCI Journal, March 2017  
Oncotarget, SCI Journal, February 2017  
European Journal of Cell Biology, SCI Journal, February 2017  
Turkish Journal of Biochemistry, SCI Journal, January 2017  
August 2016  
Plos One, SCI Journal, May 2016  
Oncotarget, SCI Journal, May 2016  
TUBITAK Project, May 2016  
Oncotarget, SCI Journal, April 2016  
The International Journal of Biochemistry and Cell Biology, SCI Journal, March 2016  
Turkish Journal of Biochemistry, SCI Journal, January 2016  
The International Journal of Biochemistry and Cell Biology, SCI Journal, January 2016  
Scientific Reports, SCI Journal, January 2016  
Biomedicine and Pharmacotherapy, SCI Journal, January 2016  
Molecular Biosystems, SCI Journal, January 2016  
Pharmaceutical Biology, SCI Journal, January 2016  
November 2015  
October 2015  
TUBITAK Project, September 2015  
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August 2015  
TUBITAK Project, June 2015  
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TUBITAK Project, February 2015  
Protein and Cell, SCI Journal, January 2015  
The International Journal of Biochemistry and Cell Biology, SCI Journal, January 2015  
Oncotarget, SCI Journal, January 2015  
The International Journal of Biochemistry and Cell Biology, SCI Journal, January 2015  
December 2014  
TUBITAK Project, November 2014  
Project Supported by Higher Education Institutions, October 2014  
TUBITAK Project, September 2014  
TUBITAK Project, June 2014  
TUBITAK Project, June 2014  
Biomed Research International, SCI Journal, March 2014  
Hacettepe Üniversitesi Eczacılık Fakültesi Dergisi, National Scientific Refreed Journal, February 2014  
Türk Biyoloji Dergisi, SCI Journal, February 2014  
Tumor Biology, SCI Journal, January 2014  
Türk Biyoloji Dergisi, SCI Journal, January 2014  
Biomed Research International, SCI Journal, January 2014  
The International Journal of Biochemistry and Cell Biology, SCI Journal, January 2014  
Türk Biyoloji Dergisi, SCI Journal, January 2014  
March 2013  
TUBITAK Project, February 2013

TUBİTAK Project, December 2012  
November 2012  
TUBİTAK Project, September 2012  
TUBİTAK Project, March 2012  
November 2011  
Journal of Proteome Research, SCI Journal, January 2011  
The International Journal of Biochemistry and Cell Biology, SCI Journal, January 2011  
Cellular and Molecular Neurobiology, National Scientific Refreed Journal, January 2011  
Molecular and Cellular Biochemistry, SCI Journal, February 2010

## Scientific Consultations

TÜBİTAK, Project Consultancy, Ege Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, Turkey, 2018 -  
Continues  
TÜBİTAK, Project Consultancy, Ege Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, Turkey, 2016 -  
2018  
TÜBİTAK, Project Consultancy, Ege Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, Turkey, 2012 -  
2017  
TÜBİTAK, Project Consultancy, Ege Üniversitesi, Turkey, 2011 - 2013

## Tasks In Event Organizations

Ballar Kırmızıbayrak P., 3rd PROTEOSTASIS Action Meeting, Proteostasis and its Biological Implications, Scientific  
Congress, Portugal, Kasım 2016  
Ballar Kırmızıbayrak P., FEBS Special Meeting on Protein Quality Control and Ubiquitin Systems in Health and Disease,  
Scientific Congress, Turkey, Kasım 2012  
Ballar Kırmızıbayrak P., GEBİP 10. Yıl Toplantısı, Scientific Congress, Turkey, Eylül 2011  
Akgül Ö., BALLAR KIRMIZIBAYRAK P., International Postgraduate Student Meeting on Pharmaceutical Sciences,  
Scientific Congress, İzmir, Turkey, Haziran 2010  
Ballar Kırmızıbayrak P., 15th annual Symposium in Molecular and Cell Biology, Scientific Congress, United States Of  
America, Mart 2005

## Invited Congress and Symposium Activities

Ufuk 2020 Marie Curie alanı bilgilendirme günü, Invited Speaker, İzmir, Turkey, 2018  
Ege Üniversitesi Biyomühendislik Bölümü Seminerleri, Invited Speaker, İzmir, Turkey, 2018  
2nd International Cell Death Congress, Invited Speaker, İzmir, Turkey, 2018  
VI. xCELLigence User Meeting, Invited Speaker, İzmir, Turkey, 2018  
Uluslararası katılımlı Tıbbi Biyoloji Kongresi, Invited Speaker, Muğla, Turkey, 2017  
Uluslararası Biyokimya Kongresi, Invited Speaker, Erzurum, Turkey, 2017  
EMBO-Proteostasis Meeting, Panelists, Dubrovnik, Croatia, 2015  
University of Maryland Biotechnology Institute Seminars, Invited Speaker, Maryland, United States Of America, 2015  
ÇEKOOP Genç Liderler Akademisi Çalıştayı, Panelists, İzmir, Turkey, 2014  
INTEGRATING EUROPEAN UBIQUITIN NETWORKS: TOWARDS HORIZON 2020, Invited Speaker, Bilbao, Spain, 2013  
Türk Biyokimya Derneği konferansları, Invited Speaker, İzmir, Turkey, 2013  
Uluslararası katılımlı Tıbbi Biyoloji Kongresi, Invited Speaker, Aydın, Turkey, 2013  
FEBS Special Meeting on Ubiquitin Proteasome system in health and disease, Session Moderator, Aydın, Turkey, 2012  
Experiences/Spotlight on Marie Curie Reintegration Grants, Invited Speaker, İzmir, Turkey, 2012  
Ege Üniversitesi Moleküler Biyoloji ve Genetik Seminerleri, Invited Speaker, İzmir, Turkey, 2011  
xCELLigence User Meeting, Invited Speaker, İstanbul, Turkey, 2011  
Horizons in Molecular Biology and Genetics-III, Invited Speaker, Ankara, Turkey, 2011

Marie Curie 2010 Destination Turkey Workshop, Invited Speaker, Michigan, United States Of America, 2010  
Bilkent Üniversitesi Moleküler Biyoloji ve Genetik Seminerleri, Invited Speaker, Ankara, Turkey, 2010  
TÜBİTAK-Marie Curie 2010 Researcher's Mobility and International Collaboration Schemes Information Day, Invited Speaker, Ankara, Turkey, 2010  
EÜ 7.FP Marie Curie Activities Workshop, Invited Speaker, İzmir, Turkey, 2009  
III.International Congress of Molecular Medicine, Invited Speaker, İstanbul, Turkey, 2009  
Boğaziçi Üniversitesi Bilim Kulübü MBG Haftasonu, Invited Speaker, İstanbul, Turkey, 2009  
Dokuz Eylül Üniversitesi Sağlık Bilimleri Enstitüsü Seminerleri, Invited Speaker, İzmir, Turkey, 2009  
Ulusal Biyokimya Kongresi, Invited Speaker, Nevşehir, Turkey, 2008

## Citations

Total Citations (WOS):878

h-index (WOS):15

## Invited Talks

Discovery 101-B&B Research Group Novel Telomerase Activators, Seminar, Ege Üniversitesi, Turkey, August 2019  
Sağlıkta ve hastalıkta katlanmamış protein yanıtı ve endoplazmik retikulum aracılı yıkım yolağının rolü (dost mu düşman mı?), Seminar, Ege Üniversitesi, Turkey, May 2018  
The role of endoplasmic reticulum associated degradation pathway on prostate tumorigenesis and possible new therapeutic approaches, Seminar, İzmir Ekonomi Üniversitesi, Turkey, March 2018  
WG4-overview and future directions, Seminar, EMBO-Proteostasis Meeting, Croatia, September 2015  
Yurtdışında Eczacılık, Seminar, Ege Üniversitesi, Turkey, April 2014  
Regulation of Mammalian ERAD, Seminar, CIC BioGUNE , Spain, October 2013  
Hastalıkta ve Sağlıkta Hücre içi Protein Kalite Kontrolü ve Yıkım Yolakları, Seminar, Türk Biyokimya Derneği İzmir Şubesi , Turkey, January 2013  
Experiences/Spotlight on Marie Curie Reintegration Grants, Seminar, İzmir Yüksek Teknoloji Enstitüsü, Turkey, September 2012  
Hücre Analizlerinde xCELLigence Uygulamaları, Seminar, Dokuz Eylül Üniversitesi, Turkey, February 2012  
Drug Screening, Seminar, xCELLigence User Meeting, Turkey, November 2011  
Regulation and substrate specificity of mammalian Endoplasmic reticulum-associated degradation, Conference, İhsan Doğramacı Bilkent Üniversitesi, Turkey, May 2011  
Regulation and substrate specificity of mammalian Endoplasmic reticulum-associated degradation, Seminar, Ege Üniversitesi, Turkey, April 2011  
Success story of reintegration process", Marie-Curie 2010 Destination Turkey Workshop, Seminar, TÜBİTAK, United States Of America, December 2010  
Success story of reintegration process, Marie-Curie 2010 Destination Turkey Workshop, Seminar, TÜBİTAK, United States Of America, November 2010  
Differential regulation of ER-associated degradation, Conference, İhsan Doğramacı Bilkent Üniversitesi, Turkey, November 2010  
Success stories: Tips for a successful proposal, Seminar, TÜBİTAK, Turkey, January 2010  
AB 7. ÇP Marie Curie Etkinlikleri Başarı öyküleri, Seminar, TÜBİTAK, Turkey, November 2009  
Ubiquitin proteasome system and related diseases, Seminar, Dokuz Eylül Üniversitesi, Turkey, October 2009  
Ubikitin Proteazom Sistemi, Conference, Boğaziçi Üniversitesi, Turkey, April 2009

## Scholarships

Yüksek Öğretim Kurumu doktora bursu, YOK, 2003 - 2007

## Awards

- Ballar Kırmızıbayrak P., 2019, Yükseköğretim Kurulu 2019 Üstün Başarı Ödülü, Tez Danışmanı, September 2019
- BALLAR KIRMIZIBAYRAK P., Altın Havan Bilim Ödülü, Eczacı Dergisi İlaç ve Eczacılık Sektörü Başarı Ödülü, December 2018
- BALLAR KIRMIZIBAYRAK P., BAGEP 2018, Bilim Akademisi Derneği, April 2018
- BALLAR KIRMIZIBAYRAK P., Best Oral Presentation Award, 2nd International Conference on Natural Products for Cancer Prevention and Therapy, November 2017
- BALLAR KIRMIZIBAYRAK P., Prof.Dr. Nazmi Özer Bilim Ödülü, Türk Biyokimya Derneği, September 2017
- BALLAR KIRMIZIBAYRAK P., Second Price for Oral Presentation, Türk Rinoloji Derneği, May 2017
- BALLAR KIRMIZIBAYRAK P., Prof. Dr. Baki Komsuoglu Genç Bilim İnsanı Ödülü, Kocaeli Üniversitesi, March 2013
- BALLAR KIRMIZIBAYRAK P., Eczacılık Akademisi Teşvik Ödülü, Türk Eczacılar Birliği, May 2012
- BALLAR KIRMIZIBAYRAK P., EMBO Travel Grant, European Molecular Biology Organisation, November 2011
- BALLAR KIRMIZIBAYRAK P., Genç Bilim Kadınlarına Destek Bursu, LOREAL Türkiye, May 2010
- BALLAR KIRMIZIBAYRAK P., TÜBA-GEBİP, Türkiye Bilimler Akademisi, June 2008
- BALLAR KIRMIZIBAYRAK P., Portland Press Young Investigator Award 2008, UK Biochemical Society, March 2008
- BALLAR KIRMIZIBAYRAK P., UMBI Distinguished Service Award, UMBI, January 2007
- BALLAR KIRMIZIBAYRAK P., ASBMB Graduate/Postdoctoral Travel Grant, American Society of Biochemistry and Molecular Biology, April 2005
- BALLAR KIRMIZIBAYRAK P., Graduate Merit Award 2003-2004, University of Maryland Graduate School, May 2004
- BALLAR KIRMIZIBAYRAK P., Mezuniyet Birincilik Ödülü, Ege Üniversitesi, June 2001
- BALLAR KIRMIZIBAYRAK P., En yüksek ÖYS-Fen puanı ile giriş ödülü, Ege Üniversitesi, September 1997