

# Prof. BANU PEYNİRCİOĞLU

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## International Researcher IDs

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## Education Information

Doctorate, Hacettepe University, Tıp Fakültesi, Tıbbi Biyoloji, Turkey 2001 - 2007

Postgraduate, Hacettepe University, Tıp Fakültesi, Tıbbi Biyoloji, Turkey 1999 - 2001

Undergraduate, Middle East Technical University, Fen Fakültesi, Biyoloji, Turkey 1995 - 1999

## Foreign Languages

English, C1 Advanced

## Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Medical Biology

## Academic Titles / Tasks

Professor, Hacettepe University, Tıp Fakültesi (Türkçe), Temel Tıp Bilimleri Bölümü, 2020 - Continues

Associate Professor, Hacettepe University, Tıp Fakültesi (Türkçe), Temel Tıp Bilimleri Bölümü, 2013 - 2020

## Advising Theses

PEYNİRCİOĞLU B., Ailevi akdeniz ateşi (AAA) hastalarında inflamatuvar hücre göçünün incelenmesi, Postgraduate, E.AVCI(Student), 2016

PEYNİRCİOĞLU B., İnflamatuvar hücre göçü sürecinde pyrin ve aktin ile ilişkili proteinlerin moleküler analizi, Postgraduate, C.GÜLER(Student), 2014

## Published journal articles indexed by SCI, SSCI, and AHCI

- Anti-LAMP-2 Antibody Seropositivity in Children with Primary Systemic Vasculitis Affecting Medium- and Large-Sized Vessels**

AKBABA T. H., Toor K. K., Mann S. K., Gibson K. M., Alfaro G. A., Balci-Peynircioglu B., Cabral D. A., Morishita K. A.,

Brown K. L.

International Journal of Molecular Sciences, vol.25, no.7, 2024 (SCI-Expanded)

- II. **Cellular models in autoinflammatory disease research**  
Şen B., Balci-Peynircioğlu B.  
Clinical and Translational Immunology, vol.13, no.1, 2024 (SCI-Expanded)
- III. **Behçet's syndrome: recent advances to aid diagnosis**  
AKBABA T. H., EKİCİ M., Çolpak A. İ., Brown K. L., KARADAĞ Ö., Balci-Peynircioğlu B.  
Clinical and Experimental Medicine, vol.23, no.8, pp.4079-4090, 2023 (SCI-Expanded)
- IV. **Drug metabolism and inflammation related distinct miRNA signature of colchicine resistant familial Mediterranean fever patients**  
Tümerdem B. Ş., AKBABA T. H., BATU AKAL E. D., AKKAYA ULUM Z. Y., MUTLU P., ÖZEN S., Balci-Peynircioğlu B.  
International Immunopharmacology, vol.124, 2023 (SCI-Expanded)
- V. **Characterization of serum extracellular vesicles and their differential level of miR-197-3p in familial Mediterranean fever patients**  
Tavukcuoğlu Z., AKKAYA ULUM Z. Y., YERSAL N., Horzum U., AKBABA T. H., KARADAĞ Ö., ESENDAĞLI G., KORKUSUZ P., ÖZEN S., Balci-Peynircioğlu B.  
Nucleosides, Nucleotides and Nucleic Acids, 2023 (SCI-Expanded)
- VI. **The pyrin inflammasome aggravates inflammatory cell migration in patients with familial Mediterranean fever**  
Akbaba T. H., Akkaya-Ulum Y. Z., Demir S., Ozen S., Balci-Peynircioğlu B.  
PEDIATRIC RESEARCH, vol.91, no.6, pp.1399-1404, 2022 (SCI-Expanded)
- VII. **Human Ace D/I Polymorphism Could Affect the Clinicobiological Course of COVID-19.**  
Aladag E., Tas Z., Ozdemir B. S., Akbaba T. H., Akpınar M. G., Goker H., Unalan-Altıntop T., Inkaya A. Ç., Alp A., Metan G., et al.  
Journal of the renin-angiotensin-aldosterone system : JRAAS, vol.2021, pp.5509280, 2021 (SCI-Expanded)
- VIII. **Microbiome is not linked to clinical disease severity of familial Mediterranean fever in an international cohort of children.**  
Ozen S., Lutz H. L., Rivera V. M., Reiff A., Batu E. D., Anderson E., Salas Garcia M., Aldrovandi G., Akbaba T. H., Pazarbasi İ., et al.  
Clinical and experimental rheumatology, vol.39, pp.102-108, 2021 (SCI-Expanded)
- IX. **Inflammation-related differentially expressed common miRNAs in systemic autoinflammatory disorders patients can regulate the clinical course.**  
Akbaba T. H., Akkaya-Ulum Y. Z., Tavukcuoğlu Z., Bilginer Y., Ozen S., Balci-Peynircioğlu B.  
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- X. **Biologia Futura: the importance of 3D organoids-a new approach for research on neurological and rare diseases**  
AKBABA T. H., Bekircan-Kurt C. E., Balci-Peynircioğlu B., Balci-Hayta B.  
BIOLOGIA FUTURA, vol.72, no.3, pp.281-290, 2021 (SCI-Expanded)
- XI. **Familial Mediterranean fever-related miR-197-3p targets IL1R1 gene and modulates inflammation in monocytes and synovial fibroblasts**  
Akkaya-Ulum Z. Y., Akbaba T. H., Tavukcuoğlu Z., Chae J. J., Yilmaz E., Ozen S., Balci-Peynircioğlu B.  
SCIENTIFIC REPORTS, vol.11, no.1, 2021 (SCI-Expanded)
- XII. **Analysis of polymorphisms in the colchicine binding site of tubulin in colchicine-resistant familial Mediterranean fever patients.**  
Akbaba T. H., Ustabas G., Kasap-Cuceoglu M., Ozen S., Balci-Peynircioğlu B.  
Molecular biology reports, vol.47, pp.9005-9011, 2020 (SCI-Expanded)
- XIII. **The Common miRNA Signatures Associated with Mitochondrial Dysfunction in Different Muscular Dystrophies**  
AKSU MENGEŞ E., Akkaya-Ulum Y. Z., DAYANGAÇ ERDEN D., Balci-Peynircioğlu B., YÜZBAŞIOĞLU A., Topaloglu H., TALİM B., Balci-Hayta B.  
AMERICAN JOURNAL OF PATHOLOGY, vol.190, no.10, pp.2136-2145, 2020 (SCI-Expanded)

- XIV. **Ancient familial Mediterranean fever mutations in human pyrin and resistance to *Yersinia pestis*.**  
Park Y. H., Remmers E. F., Lee W., Ombrello A. K., Chung L. K., Zhao Shilei Z. S., Stone D. L., Ivanov M. I., Loeven N. A., Barron K. S., et al.  
Nature immunology, vol.21, no.8, pp.857-867, 2020 (SCI-Expanded)
- XV. **Epigenetics for Clinicians from the Perspective of Pediatric Rheumatic Diseases.**  
Akbaba T. H., Sag E., Balci-Peynircioglu B., Ozen S.  
Current rheumatology reports, vol.22, pp.46, 2020 (SCI-Expanded)
- XVI. **Comorbidities in familial Mediterranean fever: analysis of 2000 genetically confirmed patients.**  
Balci-Peynircioglu B., Kaya-Akca U., Arici Z. S., Avci E., Akkaya-Ulum Z. Y., KARADAĞ Ö., KALYONCU U., BİLGİNER Y., Yilmaz E., ÖZEN S.  
Rheumatology (Oxford, England), vol.59, no.6, pp.1372-1380, 2020 (SCI-Expanded)
- XVII. **Autoinflammation in addition to combined immunodeficiency: SLC29A3 gene defect**  
Cagdas D. N., Surucu N., TAN Ç., ÖZGÜL R. K., Akkaya-Ulum Y. Z., Aydinoglu A. T., Aytac Ş. S., GÜMRÜK F., Balci-Hayta B., Balci-Peynircioglu B., et al.  
MOLECULAR IMMUNOLOGY, vol.121, pp.28-37, 2020 (SCI-Expanded)
- XVIII. **A method for high-purity isolation of neutrophil granulocytes for functional cell migration assays**  
Avci E., Akkaya-Ulum Y. Z., Yoyen-Ermis D., ESENDAĞLI G., Balci-Peynircioglu B.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.44, no.6, pp.810-821, 2019 (SCI-Expanded)
- XIX. **Potential of miRNAs to predict and treat inflammation from the perspective of Familial Mediterranean Fever.**  
Balci-Peynircioglu B., Akkaya-Ulum Y., Akbaba T. H., Tavukcuoglu Z.  
Inflammation research : official journal of the European Histamine Research Society ... [et al.], vol.68, pp.905-913, 2019 (SCI-Expanded)
- XX. **Effects of calcium hydroxide and N-acetylcysteine on MMP-2, MMP-9, TIMP-1 and TIMP-2 in LPS-stimulated macrophage cell lines**  
Astantas E. E., AKSOY Y., Ulum Y. Z. A., CEYHAN D., PEYNİRCİOĞLU B., DOĞAN BUZOĞLU H.  
Turkish Journal of Biochemistry, vol.43, no.6, pp.571-577, 2018 (SCI-Expanded)
- XXI. **Potential role of pyrin, the protein mutated in familial Mediterranean fever, during inflammatory cell migration.**  
Balci-Peynircioglu B., Akkaya-Ulum Y. Z., Avci E., Batu E. D., Purali N., Ozen S., Yilmaz E.  
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- XXII. **New workflow for classification of genetic variants' pathogenicity applied to hereditary recurrent fevers by the International Study Group for Systemic Autoinflammatory Diseases (INSAID).**  
Van Gijn M. E., Ceccherini I., Shinar Y., Carbo E. C., Slofstra M., Arostegui J. I., Sarabay G., Rowczenio D., Omoyimni E., Balci-Peynircioglu B., et al.  
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- XXIII. **Common miRNA signatures in a group of rare neuromuscular disorders**  
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- XXIV. **Behçet Disease serum is immunoreactive to neurofilament medium which share common epitopes to bacterial HSP-65, a putative trigger.**  
Lule S., Colpak A. I., Balci-Peynircioglu B., Gursoy-Ozdemir Y., Peker S., Kalyoncu U., Can A., Tekin N., Demiralp D., Dalkara T.  
Journal of autoimmunity, vol.84, pp.87-96, 2017 (SCI-Expanded)
- XXV. **Alteration of the microRNA expression profile in familial Mediterranean fever patients**  
Akkaya-Ulum Y. Z., Balci-Peynircioglu B., KARADAĞ Ö., Eroglu F. K., KALYONCU U., KİRAZ S., Ertenli A. I., ÖZEN S., YILMAZ E.  
CLINICAL AND EXPERIMENTAL RHEUMATOLOGY, vol.35, no.6, 2017 (SCI-Expanded)
- XXVI. **The effect of N-acetylcysteine and calcium hydroxide on TNF-alpha and TGF-beta 1 in lipopolysaccharide-activated macrophages**

- Karapinar S. P., ULUM Y. Z. A., ÖZÇELİK B., BUZOĞLU H., Ceyhan D., PEYNİRCİOĞLU B., AKSOY Y.  
ARCHIVES OF ORAL BIOLOGY, vol.68, pp.48-54, 2016 (SCI-Expanded)
- XXVII. **Pyrin-PSTPIP1 colocalises at the leading edge during cell**  
Akkaya-Ulum Y. Z., Balci-Peynircioglu B., PURALI N., YILMAZ E.  
CELL BIOLOGY INTERNATIONAL, vol.39, no.12, pp.1384-1394, 2015 (SCI-Expanded)
- XXVIII. **Investigation of the inflammatory cell migration process in familial Mediterranean fever**  
Ulum Y. A., Avci E., Batu E., KARADAĞ Ö., ÖZEN S., PURALI N., YILMAZ E., PEYNİRCİOĞLU B.  
Pediatric Rheumatology, vol.13, no.1, 2015 (SCI-Expanded)
- XXIX. **Familial Mediterranean Fever -- an increasingly important childhood disease in Sweden.**  
Wekell P., Friman V., Balci-Peynircioglu B., Yilmaz E., Fasth A., Berg S.  
Acta paediatrica (Oslo, Norway : 1992), vol.102, no.2, pp.193-8, 2013 (SCI-Expanded)
- XXX. **The effect of colchicine on pyrin and pyrin interacting proteins.**  
Taskiran E. Z., Cetinkaya A., Balci-Peynircioglu B., Akkaya Y. Z., Yilmaz E.  
Journal of cellular biochemistry, vol.113, no.11, pp.3536-46, 2012 (SCI-Expanded)
- XXXI. **Expression of ASC in post-mortem brain samples of alzheimer's disease patients: A possible role for ASC in a $\beta$  amyloid formation**  
**alzheimer hastalarının post-mortem beyin dokusu örneklerinde ASC ifadesi: A $\beta$  amyloid oluşumunda ASC'nin rolü**  
Taskiran E. Z., Balci-Peynircioglu B., Soylemezoglu F., Yilmaz E.  
Turkish Journal of Biochemistry, vol.36, no.4, pp.350-355, 2011 (SCI-Expanded)
- XXXII. **Expression of ASC in post-mortem brain samples of Alzheimer's disease patients: A possible role for ASC in A beta amyloid formation**  
Taskiran E. Z., Balci-Peynircioglu B., Soylemezoglu F., YILMAZ E.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.36, no.4, pp.350-355, 2011 (SCI-Expanded)
- XXXIII. **Pyrin Modulates the Intracellular Distribution of PSTPIP1**  
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- XXXIV. **Pyrin and ASC co-localize to cellular sites that are rich in polymerizing actin.**  
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- XXXV. **Expression of ASC in renal tissues of familial mediterranean fever patients with amyloidosis: postulating a role for ASC in AA type amyloid deposition.**  
Balci-Peynircioglu B., Waite A. L., Schaner P., TAŞKIRAN Z. E., Richards N., ORHAN D., Gucer S., ÖZEN S., Gumucio D., Yilmaz E.  
Experimental biology and medicine (Maywood, N.J.), vol.233, no.11, pp.1324-33, 2008 (SCI-Expanded)
- XXXVI. **Pyrin, product of the MEFV locus, interacts with the proapoptotic protein, Siva.**  
Balci-Peynircioglu B., Waite A. L., Hu C., Richards N., Staubach-Grosse A., YILMAZ E., Gumucio D. L.  
Journal of cellular physiology, vol.216, no.3, pp.595-602, 2008 (SCI-Expanded)
- XXXVII. **The analysis of interleukin-1 receptor antagonist and interleukin-1beta gene polymorphisms in Turkish FMF patients: do they predispose to secondary amyloidosis?**  
Balci-Peynircioglu B., Taşkıran Z. E., Türel B., Arici M., Bakkaloğlu A., Ozen S., Yilmaz E.  
Clinical and experimental rheumatology, vol.26, 2008 (SCI-Expanded)
- XXXVIII. **The analysis of Interleukin-1 Receptor Antagonist and Interleukin-1 beta gene polymorphisms in Turkish FMF patients: Do they predispose to secondary amyloidosis?**  
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CLINICAL AND EXPERIMENTAL RHEUMATOLOGY, vol.26, no.2, pp.184, 2008 (SCI-Expanded)
- XXXIX. **Expression of ASC in renal tissues of IMF patients with amyloidosis; postulating a role for ASC in AA type amyloid deposition**  
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CLINICAL AND EXPERIMENTAL RHEUMATOLOGY, vol.26, no.2, pp.173, 2008 (SCI-Expanded)
- XL. **Identification of the difference in extracellular matrix and adhesion molecules of cultured human**

**gingival fibroblasts versus juvenile hyaline fibromatosis gingival fibroblasts using cDNA microarray analysis.**

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Journal of periodontology, vol.76, no.12, pp.2244-53, 2005 (SCI-Expanded)

- XLII. **Genetic risk factors of amyloidogenesis in familial Mediterranean fever.**  
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American journal of nephrology, vol.25, no.5, pp.434-40, 2005 (SCI-Expanded)
- XLIII. **Familial Mediterranean fever (FMF) in Turkey - Results of a nationwide multicenter study**  
Tunca M., Akar S., Onen F., Ozdogan H., KASAPÇOPUR Ö., Yalcinkaya F., Tutar E., Ozen S., Topaloglu R., Yilmaz E., et al.  
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- XLIII. **Influence of Serum Amyloid A (SAA1) and SAA2 gene polymorphisms on renal amyloidosis, and on SAA/C-reactive protein values in patients with familial mediterranean fever in the Turkish population.**  
Bakkaloglu A., Duzova A., Ozen S., Balci B., Besbas N., Topaloglu R., Ozaltin F., Yilmaz E.  
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- XLIV. **Mutations in the gene for familial Mediterranean fever: do they predispose to inflammation?**  
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- XLV. **Analysis of the modifying effects of SAA1, SAA2 and TNF-alpha gene polymorphisms on development of amyloidosis in FMF patients.**  
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- XLVI. **MEFV gene mutations in familial Mediterranean fever phenotype II patients with renal amyloidosis in childhood: a retrospective clinicopathological and molecular study.**  
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Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association, vol.17, no.11, pp.1921-3, 2002 (SCI-Expanded)
- XLVII. **Mutation frequency of Familial Mediterranean Fever and evidence for a high carrier rate in the Turkish population**  
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EUROPEAN JOURNAL OF HUMAN GENETICS, vol.9, no.7, pp.553-555, 2001 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Potential Impacts of Gut Microbiota On Immune System Related Diseases: Current Studies and Future Challenges**  
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Acta Medica, vol.49, pp.31-37, 2018 (Peer-Reviewed Journal)
- II. **Data of indirect immunofluorescence labeling of the mouse brain sections with sera from SLE and MS patients.**  
ÇOLPAK İŞIKAY A. İ., Balci-Peynircioglu B., CAN A., Gursoy-Ozdemir Y., LÜLE S., KALYONCU U., DALKARA T.  
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- III. **CVID Associated with Systemic Amyloidosis**  
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## Refereed Congress / Symposium Publications in Proceedings

- I. **Children with Congenital Heart Diseases: Any Correlation between Mitochondrial Functions of**

## **Myocardium, Cardiac Markers, and Histopathological Changes?**

Ucar Z., Aydinoglu A. T., AKBABA T. H., ÖNDER S. Ç., Balci-Peynircioglu B., Balci-Hayta B., DEMİRCİN M.  
Annual Clinical Congress of the American-College-of-Surgeons / 5th Annual Sessions of the Owen-H-Wangenstein-Scientific-Forum, San-Francisco, Costa Rica, 27 - 31 October 2019, vol.229

- II. **Possible relationship between mevalonate kinase and cell migration from perspective of mevalonate kinase deficiency**  
AKBABA T. H., AKKAYA ULUM Z. Y., DEMİR S., ÖZEN S., PEYNİRCİOĞLU B.  
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- III. **Possible Regulatory Effects Of miRNAs In The Pathogenesis Of Systemic Auto Inflammatory Diseases From The Perspective Of Familial Mediterranean Fever**  
AKKAYA ULUM Z. Y., TAVUKÇUOĞLU Z., BATU E. D., AKBABA T. H., SÖNMEZ H. E., PEYNİRCİOĞLU B., ÖZEN S.  
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- IV. **miR-197 Regulates Inflammation In Monocytes And Synovial Fibroblasts By Targeting IL1R1**  
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- V. **Cell Migration Defect In Hyperimmunoglobulin D Syndrome**  
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- VI. **Investigation of inflammasome components in the process of cell migration in FMF patients**  
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- VII. **MiRNAs as Possible Modulators in the Pathogenesis of Systemic Auto Inflammatory Diseases**  
AKKAYA ULUM Z. Y., AKBABA T. H., TAVUKÇUOĞLU Z., ÖZEN S., PEYNİRCİOĞLU B.  
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- VIII. **The Existence Of Exosomal MiRNAs In The Circulation In Familial Mediterranean Fever (FMF) Patients**  
tavukcuoglu z., AKKAYA ULUM Z. Y., YERSAL N., AKBABA T. H., yardimci g. k., karadag o., KORKUSUZ P., PEYNİRCİOĞLU B.  
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- IX. **Characterization of Circulating Exosomes and Analysis of Exosomal microRNAs**  
zeynep t., AKKAYA ULUM Z. Y., YERSAL N., AKBABA T. H., Horzum U., ESENDAĞLI G., KORKUSUZ P., peynircioglu b.  
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- X. **Analysis of genetic background in Turkish early onset Parkinson's disease patients**  
AKBABA T. H., ÖNAL G., YÜZBAŞIOĞLU A., YALÇIN ÇAKMAKLI G., PEYNİRCİOĞLU B., ÖZGÜÇ M., DÖKMECİ S., ELİBOL B.  
6th International Congress of the Molecular Biology Association of Turkey, İzmir, Turkey, 05 September 2018, pp.46
- XI. **Analysis of genomic rearrangements in a Turkish cohort of early onset Parkinson's disease**  
ÖNAL G., YÜZBAŞIOĞLU A., YALÇIN ÇAKMAKLI G., PEYNİRCİOĞLU B., DÖKMECİ S., ÖZGÜÇ M., ELİBOL B.  
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- XII. **How common are the genomic rearrangements among possibly autosomal recessive PD cases in Turkey?**  
YALÇIN ÇAKMAKLI G., YÜZBAŞIOĞLU A., ÖNAL G., PEYNİRCİOĞLU B., ÖZGÜÇ M., DÖKMECİ S., ELİBOL B.  
International Congress of Parkinson's Disease and Movement Disorders, 4 - 08 June 2017
- XIII. **Analysis of Genomic Rearrangements in a Turkish cohort of early onset Parkinson's Disease**  
YÜZBAŞIOĞLU A., ÖNAL G., YALÇIN ÇAKMAKLI G., PEYNİRCİOĞLU B., ÖZGÜÇ M., ELİBOL B., DÖKMECİ S.  
43rd International Parkinson Disease Symposium, 6 - 08 October 2016
- XIV. **Effects of Calcium Hydroxide and N acetyl cystein on Destruction Enzyme Activity in Inflamed Cells**  
ASLANTAŞ E. E., DOĞAN BUZOĞLU H., CEYHAN D., AKSOY Y., AKKAYA ULUM Z. Y., PEYNİRCİOĞLU B.

European Society of Endodontology 17. Biennial Congress, Barcelona, Spain, 16 - 19 September 2015

**XV. EVALUATION OF ELK-1 ACTIVATION BY PHOSPHATIDYLINOSITOL 3-KINASE/AKT PATHWAY IN GLIOBLASTOMA**

Mut M., Isik S., Demir O., PEYNİRCİOĞLU B.

3rd Quadrennial Meeting of the World-Federation-of-Neuro-Oncology/6th Meeting of the Asian-Society-for-Neuro-Oncology, Yokohama, Japan, 11 - 14 May 2009, vol.11, pp.957

## Supported Projects

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## **Metrics**

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## **Non Academic Experience**

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