

## Department of Biochemistry (PHA)

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### **Research Areas:**

Vitamin K dependent proteins  
Growth Arrest-Specific 6 (Gas6)  
Periostin  
Carbonic anhydrase  
ROS/RNS-Oxidative stress  
Apoptosis and Autophagy  
Nitric oxide: Physiology and pathophysiology  
Cancer Biochemistry  
Genetic Polymorphisms in Human Diseases  
Biosensors (strip, polymer, nanofiber),  
Boron metabolism,  
Medicinal plants,  
Endocrine disrupting chemical toxicity mechanism,  
WNT Beta catenin pathway,  
Gene expression evaluation in zebrafish,  
Breast milk,  
Nano structured filters,  
Antibody immobilization,  
Tissue factor,  
Skin and burn,  
Diabetes mellitus  
Trombosis and Haemostasis,

Atherotrombosis  
Genetic biomarkers research in metabolic diseases  
Proteomics  
Atherosclerosis  
Lipoproteins  
Platelet Biochemistry  
Aizheimer Disease  
Molecular genetics of influenza viruses  
Gene regulation  
Viral and non-viral vectors  
Recombinant protein production

### **Recent Publications (2013- 2016)**

- Eksi Alp E, Altinkaya N, Cagman Z, Uras F. Plasma growth arrest-specific 6 levels in term and preterm newborns. *J Matern Fetal Neonatal Med.* 2017 Apr 11;11:1-8. doi: 10.1080/14767058.2017.1311311. [Epub ahead of print]. PMID: 28335649
- Cagman Z, Bingol Ozakpinar O, Cirakli Z, Gedikbasi A, Ay P, Colantonio D, Uras AR, Adeli K, Uras F. Reference intervals for growth arrest-specific 6 protein in adults. *Scand J Clin Lab Invest.* 2017 Apr;77(2):109-114. doi: 10.1080/00365513.2016.1275768. Epub 2017 Feb 2. PMID: 28150505
- Aksoy H, Sen A, Sancar M, Sekerler T, Akakin D, Bitis L, Uras F, Kultur S, Izzettin FV. Ethanol extract of *Cotinus coggygia* leaves accelerates wound healing process in diabetic rats. *Pharm Biol.* 2016 Nov;54(11):2732-2736. Epub 2016 May 14. PMID: 27180800
- Ozakpinar OB, Sahin S, Verimli N, Simsek GG, Maurer AM, Eroglu M, Tetik S, Uras F. Association between the growth arrest-specific 6 (Gas6) gene polymorphism c.834 + 7G>A and preeclampsia. *J Matern Fetal Neonatal Med.* 2016;29(7):1149-53. doi: 10.3109/14767058.2015.1038516. Epub 2015 Apr 27. PMID: 25915719
- Uras F, Küçük B, Bingöl Özakpinar Ö, Demir AM. Growth Arrest-Specific 6 (Gas6) and TAM Receptors in Mouse Platelets. *Turk J Haematol.* 2015 Mar 5;32(1):58-63. doi: 10.4274/tjh.2013.0097. PMID: 25805676
- Aksoy H, Sancar M, Sen A, Okuyan B, Bitis L, Uras F, Akakin D, Cevik O, Kultur S, Izzettin FV. The effect of topical ethanol extract of *Cotinus coggygia* Scop. on cutaneous wound healing in rats. *Nat Prod Res.* 2016;30(4):452-5. doi: 10.1080/14786419.2015.1019349. Epub 2015

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- Sunbul M, Cagman Z, Gerin F, Ozgen Z, Durmus E, Seckin D, Ahmad S, Uras F, Agirbasli M. Growth arrest-specific 6 and cardiometabolic risk factors in patients with psoriasis. *Cardiovasc Ther.* 2015 Apr;33(2):56-61. doi: 10.1111/1755-5922.12112.PMID: 25752901
- Koroglu P, Senturk GE, Yucel D, Ozakpinar OB, Uras F, Arbak S. The effect of exogenous oxytocin on streptozotocin (STZ)-induced diabetic adult rat testes. *Peptides.* 2015 Jan;63:47-54. doi: 10.1016/j.peptides.2014.10.012. PMID: 25451466
- Eroglu M, Ozakpinar OB, Turkgeldi L, Sahin S, Herkiloglu D, Durukan B, Uras F. Plasma levels of growth arrest specific protein 6 are increased in idiopathic recurrent pregnancy loss. *Eur Rev Med Pharmacol Sci.* 2014;18(10):1554-8.PMID: 24899617
- Sahin S, Ozakpinar OB, Eroglu M, Tulunay A, Ciraci E, Uras F, Tetik S. The impact of platelet functions and inflammatory status on the severity of preeclampsia. *J Matern Fetal Neonatal Med.* 2015 Apr;28(6):643-8. doi: 10.3109/14767058.2014.927860. Epub 2014 Jun 20.PMID: 24853491
- Erek-Toprak A, Bingol-Ozakpinar O, Karaca Z, Cikrikcioglu MA, Hursitoglu M, Uras AR, Adeli K, Uras F. Association of plasma growth arrest-specific protein 6 (Gas6) concentrations with albuminuria in patients with type 2 diabetes. *Ren Fail.* 2014 Jun;36(5):737-42. doi: 10.3109/0886022X.2014.883997. Epub 2014 Feb 11.PMID: 24512357
- Sahin S, Ozakpinar OB, Ak K, Eroglu M, Acikel M, Tetik S, Uras F, Cetinel S. The protective effects of tacrolimus on rat uteri exposed to ischemia-reperfusion injury: a biochemical and histopathologic evaluation. *Fertil Steril.* 2014 Apr;101(4):1176-82. doi: 10.1016/j.fertnstert.2013.12.044. Epub 2014 Feb 4.PMID: 24502894
- Lopez SM, Hodgson MC, Packianathan C, Bingol-Ozakpinar O, Uras F, Rosen BP, AgoulNIK IU. Determinants of the tumor suppressor INPP4B protein and lipid phosphatase activities. *Biochem Biophys Res Commun.* 2013 Oct 18;440(2):277-82. doi: 10.1016/j.bbrc.2013.09.077. PMID: 2407061
- Cevik O, Baykal AT, Sener A. Platelets Proteomic Profiles of Acute Ischemic Stroke Patients. *PLoS One.* 2016 Jun 23;11(6):e0158287. doi: 10.1371/journal.pone.0158287. PMID: 27336623
- Şenkardeş S, Özakpinar ÖB, Özsavcı D, Şener A, Çevik Ö, Küçükgülzel ŞG.Synthesis of Diflunisal Thiazolidinones as Anticancer Agents.*Anticancer Agents Med Chem.* 2016;16(10):1266-74.PMID: 26320814
- Çıkla P, Özsavcı D, Bingöl-Özakpinar Ö, Şener A, Çevik Ö, Özbaş-Turan

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- Cevik O, Erşahin M, Sener TE, Tinay I, Tarcan T, Cetinel S, Sener A, Toklu HZ, Sener G Beneficial effects of quercetin on rat urinary bladder after spinalcord injury.J Surg Res. 2013 Aug;183(2):695-703. doi: 10.1016/j.jss.2013.02.016. Epub 2013 Mar 6. PMID:23490140
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- O.Cevik, H.Akpınar, **R.Oba** ,ÖT.Çilingir ,Z N.Ozdemir, S. Cetinel, Tevfik Yoldemir.The Effect of Momordica Charantia intake on the estrogen receptors ESRa/ESRb gene levels and apoptosis on uterine tissue in ovariectomy rats.Mol.Biol.Res.2015 42:167-177.DOI 10.1007/s 11033-014-3756-7
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