

## Asst. Prof. Nurdan GÖNÜL BALTACI

### Personal Information

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### Education Information

Doctorate, Ataturk University, Fen Fakültesi, Moleküler Biyoloji ve Genetik, Turkey 2013 - 2018

Postgraduate, Ataturk University, Fen Fakültesi, Moleküler Biyoloji ve Genetik, Turkey 2011 - 2013

Undergraduate, Ataturk University, Fen Fakültesi, Kimya, Turkey 2006 - 2010

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Life Sciences, Biotechnology, Molecular Biology and Genetics, Natural Sciences

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

- I. **Green alternatives to petroleum-based plastics: production of bioplastic from *Pseudomonas neustonica* strain NGB15 using waste carbon source.**  
Baltacı N., Baltacı M. Ö., Görmez A., Örtücü S.  
Environmental science and pollution research international, vol.31, no.21, pp.31149-31158, 2024 (SCI-Expanded)
- II. **Depletion of *Tip60/Kat5* affects the hepatic antioxidant system in mice**  
Koçpınar E. F., Baltacı N., AKKEMİK E., BUDAK H.  
JOURNAL OF CELLULAR BIOCHEMISTRY, vol.124, no.1, pp.103-117, 2023 (SCI-Expanded)
- III. ***Tip60/Kat5* may be a novel candidate histone acetyltransferase for the regulation of liver iron localization via acetylation**  
Baltacı N., TORAMAN E., Akyuz M., Kalın S. N., BUDAK H.  
BIOMETALS, vol.35, no.6, pp.1187-1197, 2022 (SCI-Expanded)
- IV. **Effect of Titanium Dioxide and Silver Nanoparticles on Mitochondrial Dynamics in Mouse Testis Tissue**  
Arslan N. P., Keleş O. N., Gonul-Baltacı N.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.200, no.4, pp.1650-1658, 2022 (SCI-Expanded)
- V. ***Tip60* might be a candidate for the acetylation of hepatic carbonic anhydrase I and III in mice**  
Gonul Baltacı N., Koçpınar E. F., Budak H.  
MOLECULAR BIOLOGY REPORTS, no.11, pp.7397-7404, 2021 (SCI-Expanded)
- VI. **Co-production of Amylase and Protease by Locally Isolated Thermophilic Bacterium *Anoxybacillus rupiensis* T2 in Sterile and Non-sterile Media Using Waste Potato Peels as**

### **Substrate**

Tuysuz E., Gonul-Baltaci N., Ömeroğlu M. A., Adigüzel A., Taşkın M., Özkan H.

WASTE AND BIOMASS VALORIZATION, no.12, pp.6793-6802, 2020 (SCI-Expanded)

- VII. **Effect of a Prolonged Dietary Iron Intake on the Gene Expression and Activity of the Testicular Antioxidant Defense System in Rats**  
Kocpinar E. F., Gönül Baltacı N., Ceylan H., Kalın S. N., Erdoğan O., Budak H.  
BIOLOGICAL TRACE ELEMENT RESEARCH, no.1, pp.135-141, 2020 (SCI-Expanded)
- VIII. **Examining the link between dose-dependent dietary iron intake and Alzheimer's disease through oxidative stress in the rat cortex**  
Ceylan H., Budak H., Kocpinar E. F., Baltacı N., Erdoğan O.  
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, pp.198-206, 2019 (SCI-Expanded)
- IX. **In vitro and in vivo effects of iron on the expression and activity of glucose 6-phosphate dehydrogenase, 6-phosphogluconate dehydrogenase, and glutathione reductase in rat spleen**  
Gonul B., Guler C., Ceylan H., Kalın S., Adem S., Kocpinar E. F., Erdogan O., Budak H.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, no.1, 2019 (SCI-Expanded)
- X. **Stimulation of gene expression and activity of antioxidant related enzyme in Sprague Dawley rat kidney induced by long-term iron toxicity**  
Budak H., Kocpinar E. F., Gonul N., Ceylan H., Erol H. S., Erdoğan O.  
COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY, pp.44-50, 2014 (SCI-Expanded)
- XI. **Expression of Glucose-6-Phosphate Dehydrogenase and 6-Phosphogluconate Dehydrogenase in Oxidative Stress Induced by Long- Term Iron Toxicity in Rat Liver**  
BUDAK H., CEYLAN H., Kocpinar E. F., Gonul N., ERDOĞAN O.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, no.5, pp.217-223, 2014 (SCI-Expanded)
- XII. **Impact of long term Fe<sup>3+</sup> toxicity on expression of glutathione system in rat liver**  
BUDAK H., GONUL N., Ceylan H., KOCPINAR E.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, no.1, pp.365-370, 2014 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **Microbial conversion of waste baklava syrup to biofuels and bioproducts**  
ÖMEROĞLU M. A., Gonul-Baltaci N., Arslan N. P., ADIGÜZEL A., TAŞKIN M.  
BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, vol.42, 2022 (ESCI)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **How TrxR activity changes in an iron-overload mouse heart?**  
Altun S., Gönül Baltacı N., Budak H.  
Molecular Biology and Biotechnology Congress, Konya, Turkey, 25 - 27 April 2018, pp.228
- II. **Effects of long term iron toxicity on antioxidant related enzyme in rat spleen at gene and protein level**  
Gönül Baltacı N., Ceylan H., Koçpinar E. F., Kalın Ş. N., Erdoğan O., Budak H.  
7th International Molecular Biology and Biotechnology Congress, Konya, Turkey, 25 - 27 April 2018, pp.130
- III. **The impact of Tip60 gene on antioxidant system**  
Kocpinar E. F., Gonul N., Akkemik E., Eichele G., BUDAK H.  
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, pp.407
- IV. **The role of Tip60 in the inflammation process**  
ÇAKIR Ş. N., GÖNÜL N., AKYÜZ M., BASTEM A., AKMAN O., ALBAYRAK M., GÜNDOĞDU C., EICHELE G., BUDAK H.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, pp.358-359

V. **Oxidative Stress in Rat Cortex**

Ceylan H., Koçpınar E. F., Gönül Baltacı N., Erdoğan O., Budak H.

III. International Congress of the Molecular Biology Association, İzmir, Turkey, 10 - 12 October 2014, pp.1

## **Supported Projects**

Budak H., TUBITAK Project, Tip60 Geninin Demir Homeostazisi ve İnflamasyon Üzerine Etkisinin Fare Karaciğerinde Araştırılması, Burslu, Sonuçlandı, KBAG - Kimya Biyoloji Araştırma Destek Grubu, 2014 - 2017

## **Mobility Activity**

Research Scholarship Program, Post Doc, Erzurum Technical University, Turkey, 2024 - Continues

Post Doc, Post Doc, Erzurum Technical University, Turkey, 2021 - 2023

## **Metrics**

Publication: 19

Citation (WoS): 170

Citation (Scopus): 206

H-Index (WoS): 7

H-Index (Scopus): 8