

## CURRICULUM VITAE



### 1- PERSONAL INFORMATIONS

NAME-SURNAME BELMA NURAL YAMAN  
ADDRES Eskişehir Osmangazi Üniversitesi, Mühendislik Mimarlık Fakültesi,  
Biyomedikal Mühendisliği Bölümü, Eskişehir  
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### 2- EDUCATIONAL BACKGROUND

2019 PhD Eskişehir Osmangazi University, Graduate School of Natural and Applied Sciences, Department of Biotechnology and Bioasfety  
2014 MASTER Yıldız Teknik University, Graduate School of Natural and Applied Sciences, Department of Bioengineering.  
2012 BACHELOR Yıldız Teknik University, The Faculty of Chemistry-Metallurgy, Department of Bioengineering, Bioengineering Program

### 3- ACADEMICAL DUTIES

Research Assistant 24.01.2014  
Research Assistant Doctor 17.12.2019

### 4- YABANCI DİL BİLGİSİ

İngilizce İyi

### 5- THESES

2012-2014 Master Yıldız Teknik University, Graduate School of Natural and Applied Sciences, Department of Bioengineering Analysis of gene from *Theileria annulata* coding lactate dehydrogenase enzyme  
2014-2019 PhD Eskişehir Osmangazi University, Graduate School of Natural and Applied Sciences, Department of Biotechnology and Bioasfety Identification of prokaryotic diversity in acid mine drainage by conventional methods in combination with culture independent methods and biotechnological applications

## 7- PROJECTS

1. Genotoxicity / Mutagenicity Potentials of Boron Contaminated Environments and Determination of Boron Tolerances of Microbial Community Isolated from These Environments, Eskisehir Osmangazi University, BAPK-D (2016/19D51), Researcher, 2014-2016.
2. Metagenomic analysis of bacterial community of acidic mine drainage, Eskisehir Osmangazi University BAPK-D (2017/19D12), Rsearcher, 2017- 2018.
3. Identification of Prokaryotic Diversity from Acidic Environment by Culture Dependent and Culture Independent New Generation Methods, Eskisehir Osmangazi University, BAPK-B2 (2017/19047), Researcher, 2017-2020.
4. Investigation of Bacterial Diversity from environment with high boron content by Culture Dependent and Culture Independent New Generation Methods, Eskisehir Osmangazi University BAPK-B2 (2018/38064), Researcher, 2018-continue.
5. Immobilized laccase on micromaterial as novel biocatalytic systems for environmental application, Eskisehir Osmangazi University BAPK-B1 (2018/19071), Researcher, 2018-continue.
6. Geleceğin Biyoteknologları Aranyor, TUBİTAK 4004 (2018/118B969), Trainer, 2018.
7. Arsenic removal from acid mine drainage with simultaneous Fe<sup>+2</sup> and As<sup>+3</sup> oxidation and schwertmannite precipitation, Eskisehir Osmangazi University BAPK-D (2019/38D13), Researcher, 2019-continue.
8. Investigation of the effect of microbiota on chemotherapy in patients with colon cancer, Eskisehir Osmangazi University BAPK(B1)(), Researcher, 2020-continue.

## 8. PUBLICATIONS

### A-1 Articles in international scientific journals with referee practice (SCI-Expanded , SSCI, AHCI journals)

1. Yakarsönmez S., Çayır E., Mutlu Ö., **Nural B.**, Saryer E., Topuzoğulları M., Milward R. M., Cooper R. P., Erdemir A. & Turgut-Balık D. Cloning, Expression and Characterization of The Gene Encoding The Enolase From *Fusobacterium nucleatum*. Applied Biochemistry and Microbiology. 52(1):23-30. DOI. 10.7868/S0555109916010141.(2016).
2. **Nural B.**, Erdemir A., Mutlu O., Yakarsonmez S., Danis O., Topuzoğulları M. & Turgut-Balik D. Biochemicaland in silicoCharacterization of L-LactateDehydrogenase of *Theileriaannulata*. Molecular Biotechnology. 58(4):256-267. DOI 10.1007/s12033-016-9924-3 (2016).

3. **Nural Yaman, B.,** Deniz Sonmez, G., AytarCelik, P., Korkmaz, F., Mutlu, M. B., &Cabuk, A.  
Culture-dependent diversity of boron-tolerant bacteria from boron mine tailings pond and solid

wastes. Water and Environment Journal. 33:574-581. <https://doi.org/10.1111/wej.12429> (2019).

4. **Nural Yaman B.**, Aytar Celik P., Mutlu MB., Çabuk A. “Acidophile diversity of an iron-rich environment” Geomicrobiology Journal, **under review**.
5. Demir EK., **Nural Yaman B.**, Aytar Celik P., Şahinkaya E. “Iron oxidation in a Ceramic Membrane Bioreactor Using Heterotrophic Acidophilic Bacteria Isolated from an Acid Mine Drainage” Separation and Purification Technology, **under review**.
6. Abutaha A., **Nural Yaman B.**, Cakmak H., Erol S., Aytar Çelik P., Cabuk A., Efficient removal of anionic dyes with magnetic *Mucor circinelloides* from mill scale, Separation Science and technology, **under review**.

#### **A-2 Articles in international scientific journals with referee practice (excluding SCI-Expanded, SSCI, AHCI journals.**

1. **Nural Yaman B.**, Mutlu MB., Aytar Çelik P., Çabuk A. Metagenomics (16S Amplicon Sequencing) and DGGE Analysis of Bacterial Diversity of Acid Mine Drainage. Journal of Microbiology, Biotechnology and Food Sciences 9(5):932-936 (2020) 10.15414/jmbfs.2020.9.5.932-936.
2. Yiğit Şat E., **Nural Yaman B.**, Gedikli S., Aytar Çelik P., Çabuk A. Heat and pH Stable Protease Produced By a Bacterium Isolated From Fields With High Boron. Journal of Microbiology, Biotechnology and Food Sciences. 9(6) (2020).
3. Erdönmez O., Gedikli S., **Nural Yaman B.**, Aytar Çelik P., Çabuk A., Thermophilic Prokaryotic Diversity of Eynal Spring, Eskişehir Technical University Journal of Science and Technology A- Applied Sciences and Engineering, under review

### **9-BİLDİRİLER**

#### **B-2 Papers presented oral and published as abstract text at international congresses, symposium, panel discussions, workshops, scientific, artistic meetings**

1. **Nural Yaman B.**, Mutlu MB., Aytar Çelik P., Çabuk A. Metagenomics Analysis of Acidic Mine Drainage in Çan, Çanakkale. BioMicroWorld2018, Torremolinos İspanya, 24-25 Mayıs 2018

#### **B-3 Papers presented poster and published as abstract text at international congresses, symposia, panel discussions, workshops, scientific, artistic meetings.**

1. **Nural B.**, Erdemir A., Aktaş M., Dumanlı N., Turgut-Balık D. “Evaluation Of The Lactate Dehydrogenase Gene Sequence Of *Theileria annulata* To Find A Possible Solution For Protein Being

Synthesised From Inacti ve To Active Form.” 2nd International Congress of Molecular Biology Association of Turkey. Istanbul, Türkiye, 22-23 Kasım 2013.

2. **Nural B.**, Erdemir A., Turgut-Balık D. " Production of Lactate Dehydrogenase from *Theileria annulata* in High Purity." 2nd International BAU Drug Design Congress. Istanbul Türkiye, 17-19 Nisan 2014.
3. **Nural B.**, Erdemir A., Danis O., Turgut-Balık D. Kinetic Analysis of Lactate Dehydrogenase from *Theileria annulata*. MOLCHEM2014. Istanbul, Türkiye, 19 Aralık 2014.
4. Yakarsonmez S., **Nural B.**, Sariyer E., Turgut-Balık D. Optimum pH Determination and Thermostability Analysis of Recombinant *Fusobacterium nucleatum* Enolase Enzyme MOLCHEM2014. Istanbul, Türkiye, 19 Aralık 2014.
5. **Nural B.**, Erdemir A, Mutlu Ö., Turgut-Balık D. “Homology Modelling of Lactate Dehydrogenase from *Theileria annulata*." 3rd International BAU Drug Design Congress. Istanbul Türkiye, 01-03Ekim 2015.
6. **Nural Yaman B.**, Deniz Sonmez G., Aytar Çelik P., Korkmaz F., Mutlu MB., Çabuk A. Bacterial Diversity of Boron Mine Distrinct in Kırka, Turkey. 4th Conference on Microbial Diversity., Bari, İtalya, 24-26 Ekim 2017.
7. **Nural Yaman B.**, Aytar Çelik P., Mutlu MB., Çabuk A. Microbial Diversity of Acidic Mine Drainage in Kahramanmaras, Turkey. BioMicroWorld2018, Torremolinos İspanya, 24-25 Mayıs 2018.
8. Çabuk A., **Nural Yaman B.**, Gedikli S., Aytar Çelik P., Korkmaz F., Mutlu MB. The Metagenomics Analysis of Two Waste Mine Ponds fromTurkey. 5 ECCA, Floransa İtalya, 15-19 Eylül 2019.

**B-5 Papers presented oral and published as abstract text at national congresses, symposium, panel discussions, workshops, scientific, artistic meetings.**

1. Yiğit E., **Nural Yaman B.**, Gedikli S., Aytar Çelik A., Çabuk A. Bor Tolerant Mikroorganizmalardan Proteaz Üretimi. Uluslararası Katılımlı 19. Biyoteknoloji Kongresi, Eskişehir, Türkiye, 01-03 Aralık 2017.
2. Abutaha MK Abdulsamee, **Nural Yaman B.**, Çakmak H., Hoşgün S., Aytar Çelik P., Çabuk A. Tekstil Endüstrisinde Kullanılan Boyarmadde Gideriminde Manyetik Biyosorbentin Değerlendirilmesi. Uluslararası Katılımlı 20. Biyoteknoloji Kongresi, Ankara, Türkiye, 10-12 Ekim 2019.

**B-6 Papers presented poster and published as abstract text at national congresses, symposia, panel**

### **discussions, workshops, scientific, artistic meetings**

1. **Nural B.**, Erdemir A., Turgut-Balık D. *Theileria annulata* Laktat Dehidrogenaz Enziminin Gen Dizisinde Tespit Edilen Mutasyonların Yönlendirilmiş Mutagenез ile Uzaklaştırılarak Aktif Protein Üretimi. 22. Ulusal Biyoloji Kongresi. Eskişehir, Türkiye. 23-27 Haziran 2014.
2. **Nural B.**, Yakarsönmez S., Erdemir A., Turgut-Balık D *Theileria annulata*'nın Laktat Dehidrogenaz Enziminin Optimum pH Değerinin Belirlenmesi ve Termal Stabilite Analizi. 4. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Afyon, Türkiye 21-24 Ağustos 2015
3. Erdönmez O., Gedikli S., **Nural Yaman B.**,Aytar Çelik P., Çabuk A. Eynal Termal Kaplıcasının Prokaryotik Çeşitliliği. Uluslararası Katılımlı 20. Biyoteknoloji Kongresi, Ankara, Türkiye, 10-12 Ekim 2019.

### **10- AWARDS/SCHOLARSHİPS**

- 1) TÜBİTAK-Bilim İnsanı Destekleme Daire Başkanlığı Yurtiçi Yüksek Lisans Bursu
- 2) TÜBİTAK-Bilim İnsanı Destekleme Daire Başkanlığı Yurtiçi Doktora Bursu