

## Asst. Prof. BARIŞ GÖKALSIN

### Personal Information

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### International Researcher IDs

ScholarID: 3hIAyKgAAAAJ

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Publons / Web Of Science ResearcherID: AAE-2163-2020

ScopusID: 57189220818

Yoksis Researcher ID: 368302

### Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Biology, Turkey 2015 - 2021

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Biology, Turkey 2014 - 2015

Undergraduate, Marmara University, Faculty of Arts and Sciences, Biology, Turkey 2010 - 2014

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, Pseudomonas aeruginosa quorum sensing inhibitörü liken sekonder metabolitlerinin ve inhibisyon mekanizmalarının belirlenmesi, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Biology, 2020

### Research Areas

Biophysics, Biochemistry, Bioinformatics, Biotechnology, Microbiology, Molecular Biology and Genetics

### Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Biology, 2022 - Continues

### Academic and Administrative Experience

Deputy Head of Department, Marmara University, Faculty of Sciences, Department of Biology, 2023 - Continues

Fakülte Kurulu Üyesi, Marmara University, Faculty of Sciences, Department of Biology, 2022 - Continues

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

- I. **Continental scale comparison of mycobiomes in Parmelia and Peltigera lichens from Turkey and South Korea**  
Yang J, Woo J, Sesal C., GÖKALSIN B., Eldem V., Açıkgöz B., Başaran T. I., Kurtuluş G., Hur J.  
BMC Microbiology, vol.24, no.1, 2024 (SCI-Expanded)
- II. **Chrysophanol inhibits of colorectal cancer cell motility and energy metabolism by targeting the KITENIN/ErbB4 oncogenic complex**  
Varlı M., Kim E., Oh S., Pulat S., Zhou R., Gamage C. D. B., GÖKALSIN B., SESAL N. C., Kim K. K., Paik M., et al.  
Cancer Cell International, vol.24, no.1, 2024 (SCI-Expanded)
- III. **Innovative Fluorescent Polymers in Niosomal Carriers: A Novel Approach to Enhancing Cancer Therapy and Imaging**  
Tornaci S., ERGİNER HASKÖYLÜ M., BULUT U., Sener B., Persilioglu E., KALAYCILAR İ. B., Celik E. G., YARDİBİ H., Siyah P., Karakurt O., et al.  
Macromolecular Bioscience, vol.24, no.10, 2024 (SCI-Expanded)
- IV. **Investigating the cryoprotective efficacy of fructans in mammalian cell systems via a structure-functional perspective**  
Tornacı S., ERGİNER HASKÖYLÜ M., GÖKALSIN B., Aysan A., Çetin M., Sadauki M., Fındıklı N., GENÇ S., Sesal C., TOKSOY ÖNER E.  
Carbohydrate Polymers, vol.328, 2024 (SCI-Expanded)
- V. **Using proteomics, q-PCR and biochemical methods complementing as a multiapproach to elicit the crucial responses of zebrafish liver exposed to neonicotinoid pesticide**  
Kizilkaya S., AKPINAR G., SESAL N. C., KASAP M., GÖKALSIN B., KAYHAN F. E.  
Comparative Biochemistry and Physiology - Part D: Genomics and Proteomics, vol.47, 2023 (SCI-Expanded)
- VI. **Exploring the potential of Halomonas levan and its derivatives as active ingredients in cosmeceutical and skin regenerating formulations**  
Hasköylü M. E., Gökalsin B., Tornaci S., Sesal C., Öner E.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.240, 2023 (SCI-Expanded)
- VII. **Quorum sensing attenuation properties of ethnobotanically valuable lichens against Pseudomonas aeruginosa**  
Gökalsin B., Berber D., Özyiğitoğlu G., Yeşilada E., Sesal N. C.  
PLANT BIOSYSTEMS, vol.154, no.6, pp.792-799, 2020 (SCI-Expanded)
- VIII. **Extremophilic Natrinema versiforme Against Pseudomonas aeruginosa Quorum Sensing and Biofilm**  
Basaran T. I., Berber D., Gokalsin B., Tramice A., Tommonaro G., Abbamondi G. R., Erginer Haskoylu M., TOKSOY ÖNER E., Iodice C., SESAL N. C.  
FRONTIERS IN MICROBIOLOGY, vol.11, 2020 (SCI-Expanded)
- IX. **Anti-quorum sensing and anti-biofilm activities of Hypericum perforatum extracts against Pseudomonas aeruginosa**  
Dogan S., Gokalsin B., ŞENKARDEŞ İ., DOĞAN A., SESAL N. C.  
JOURNAL OF ETHNOPHARMACOLOGY, vol.235, pp.293-300, 2019 (SCI-Expanded)
- X. **Reducing Virulence and Biofilm of Pseudomonas aeruginosa by Potential Quorum Sensing Inhibitor Carotenoid: Zeaxanthin**  
Gokalsin B., Aksoydan B., Erman B., SESAL N. C.  
MICROBIAL ECOLOGY, vol.74, no.2, pp.466-473, 2017 (SCI-Expanded)
- XI. **Lichen secondary metabolite evernic acid as potential quorum sensing inhibitor against Pseudomonas aeruginosa**  
Gokalsin B., SESAL N. C.  
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.32, no.9, 2016 (SCI-Expanded)
- XII. **Effects of Chlorine Stress on Pseudomonas aeruginosa Biofilm and Analysis of Related Gene Expressions**  
Kekec O., Gokalsin B., KARALTI İ., KAYHAN F. E., SESAL N. C.

## Articles Published in Other Journals

- I. **Morphological and molecular diagnosis of the pine processionary moth in Marmara University Göztepe Campus**  
Yazıcı S., AYDOĞAN İ. S., DALKIRAN B. E., CODUR H., Başaran T. I., GÖKALSIN B., SESAL N. C., TURAN Y.  
International journal of advances in engineering and pure sciences (Online), vol.36, no.2, pp.173-177, 2024 (Peer-Reviewed Journal)
- II. **Effects of Ultrasonic Specific Energy on Time-Dependent Inactivation Rate of *Proteus mirabilis* and *Streptococcus sanguinis***  
Kekeç Ö., GÖKALSIN B., Açıkgöz B., Özdaş D. Ö., Sesal C.  
Acta Microbiologica Bulgarica, vol.39, no.1, pp.59-64, 2023 (Scopus)
- III. **Inhibition of *Pseudomonas aeruginosa* Biofilm Formation and Quorum Sensing System by Extracts of *Prunus avium* Stalk**  
YILDIZ A., BALKAN A. A., GÖKALSIN B., BERBER D., SESAL C.  
International journal of advances in engineering and pure sciences (Online), vol.33, no.2, pp.187-194, 2021 (Peer-Reviewed Journal)
- IV. **Infusion or Decoction Extracts of *Helianthus annuus* Leaves: Potential Inhibitors for QS system and Biofilm Formation in *Pseudomonas aeruginosa***  
Balkan A. A., Yıldız A., Berber D., Gökalsın B., Sesal N. C.  
International journal of advances in engineering and pure sciences (Online), vol.32, no.4, pp.499-506, 2020 (Peer-Reviewed Journal)
- V. **Antibacterial Activities of Extracts of Lichen Samples Collected from Balıkesir Region on *Escherichia coli* ATCC 25922**  
UÇARKUŞ E., GÖKALSIN B., YILDIRIM N., AÇIKGÖZ B., ÖZYİĞİTOĞLU G., SESAL N. C.  
Türk Mikrobiyoloji Cemiyeti Dergisi, vol.47, no.1, pp.26-32, 2017 (Peer-Reviewed Journal)
- VI. **Antibacterial Activities of Extracts of Lichen Samples Collected from Balıkesir Region on *Escherichia coli* ATCC 25922**  
Uçarkuş E., Gökalsın B., Yıldırım N., Açıkgöz B., Özyiğitoğlu G., Cenk Sesal N.  
Türk Mikrobiyoloji Cemiyeti Dergisi, vol.47, no.1, pp.26-32, 2017 (Peer-Reviewed Journal)

## Books

- I. ***Pseudomonas aeruginosa* Quorum Sensing and Biofilm Inhibition**  
GÖKALSIN B., BERBER D., SESAL N. C.  
in: Quorum Sensing Molecular Mechanism and Biotechnological Application, Giuseppina Tommonaro, Editor, Academic Press, pp.227-256, 2019

## Supported Projects

Gökalsın B., Sesal N. C., TÜBİTAK International Multi-Cooperation Project, *Staphylococcus aureus* Enfeksiyonlarının Tedavisi ve Cilt Homeostazının Sağlanmasında Antimikrobiyal Taşıyıcı Hedefe Yönelik Uyarılara Duyarlı Nano-yapılar, 2022 - 2025

Gökalsın B., Sesal N. C., Durdağı S., Şen B., Çobanoğlu G., TÜBİTAK International Bilateral Joint Cooperation Program Project, Uzak Doğu Asya Ve Uzak Batı Asya Arasındaki Benzer Konak Liken Soyundan İzole Edilen Endolikenik Mantarların (Elf) Biyoçeşitliliği, 2022 - 2024

Gökalsın B., Eldem V., TÜBİTAK Project, Quorum Sensing İnhibitörü Evernik Asitin *Pseudomonas aeruginosa*

Transkriptomuna Etkisi, 2021 - 2022

Dođan Ö. K., Açıkğöz B., Sesal N. C., Çobanođlu G., TÜBİTAK International Bilateral Joint Cooperation Program Project, Akciđer Kanserinde İmmün Kontrol Noktası (Checkpoint) İle Çođunluđu Algılama Sistemi (QS) Arasındaki Potansiyel İlişkinin Liken Sekonder Metabolitleriyle İnhibisyonun Araştırılması, 2019 - 2021

Özyiđitođlu G., Sesal N. C., TÜBİTAK International Bilateral Joint Cooperation Program Project, Türk Liken biyokaynakları kullanılarak bakteriyel Quorum sensing inhibitörü yeni antimikrobiyal bileşenlerin geliştirilmesi ve sanayiye aktarılması, 2017 - 2019

Sesal N. C., Toksoy Öner E., TÜBİTAK International Bilateral Joint Cooperation Program Project, Bakteri Virulansına Karşı Mücadele İçin Ekstremofilik QS ve QQ Metabolitlerinin Araştırılması, 2017 - 2019

Özyiđitođlu G., Sesal N. C., TÜBİTAK - AB COST Project, Acne Vulgaris Hastalığının Etmenlerinin Propionibacterium acnes Bakterisinin Liken Türlerinden İzole Edilen Sekonder Metabolitler Kullanılarak Biyofilm Oluşturulmasının Engellenmesi, 2015 - 2018

## Activities in Scientific Journals

Frontiers in Life Sciences and Related Technologies (Online), Committee Member, 2021 - Continues

## Metrics

Publication: 21

Citation (WoS): 168

Citation (Scopus): 179

H-Index (WoS): 6

H-Index (Scopus): 6

## Scholarships

Yurt dışı DOSAP, YOK, 2023 - 2024

2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, TUBİTAK, 2021 - 2023

2214-A Yurt Dışı Araştırma Burs Programı, TUBİTAK, 2019 - 2020