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International Researcher IDs

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Publons / Web Of Science ResearcherID: P-3158-2015

ScopusID: 56913299900

Yoksis Researcher ID: 310949

Education

Doctorate, Utah State University, College of Engineering, Biological Engineering, United States Of America 2013 - 2019
Undergraduate, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Chemistry Engineering (English), Turkey 2005 - 2010

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Doğal ürün biyosentezi için bakterilerin kapasitesinin araştırılması, Utah State University, College of Engineering, Biological Engineering, 2019

Research Areas

Metabolic Engineering, Industrial Biotechnology, Microbial Biotechnology, Genetic Engineering, Microbial Genetics, Biosynthesis, Biotransformations, Enzyme Kinetics, Chemistry of Natural Products

Academic Positions

Assistant Professor, Abdullah Gul University, Yaşam Ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2021 - Continues

Academic and Administrative Experience

Erasmus Coordinator, Abdullah Gul University, Yaşam ve Doğa Bilimleri Fakültesi, BİYOMÜHENDİSLİK, 2019 - Continues

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Discovery of a C-S lyase inhibitor for the prevention of human body malodor formation: tannic acid inhibits the thioalcohol production in *Staphylococcus hominis***
Fidan O., Karipcin A. D., Köse A. H., Anaz A., Demirsoy B. N., Arslansoy N., Sun L., Mujwar S.
International Microbiology, 2024 (SCI-Expanded)
- II. **Can mesenchymal stem/stromal cells and their secretomes combat bacterial persisters?**
Bicer M., FİDAN Ö.
World Journal of Microbiology and Biotechnology, vol.39, no.10, 2023 (SCI-Expanded)
- III. **Inhibition of pathologic immunoglobulin E in food allergy by EBF-2 and active compound berberine associated with immunometabolism regulation**
Yang N., Maskey A. R., Srivastava K., Kim M., Wang Z., Musa I., Shi Y., Gong Y., FİDAN Ö., Wang J., et al.
Frontiers in Immunology, vol.14, 2023 (SCI-Expanded)
- IV. **In Silico Analysis of Bacteriocins from Lactic Acid Bacteria Against SARS-CoV-2**
Erol I., Kotil S. E., FİDAN Ö., YETİMAN A. E., Durdagi S., ORTAKCI F.
PROBIOTICS AND ANTIMICROBIAL PROTEINS, vol.15, no.1, pp.17-29, 2023 (SCI-Expanded)
- V. **Discovery of adapalene and dihydrotachysterol as antiviral agents for the Omicron variant of SARS-CoV-2 through computational drug repurposing**
FİDAN Ö., Mujwar S., Kciuk M.
MOLECULAR DIVERSITY, vol.27, no.1, pp.463-475, 2023 (SCI-Expanded)
- VI. **Editorial: Microbial production of medicinally important agents**
Zeng J., Zhan J., Qiao X., FİDAN Ö.
Frontiers in Microbiology, vol.14, 2023 (SCI-Expanded)
- VII. **Berberine-containing natural-medicine with boiled peanut-OIT induces sustained peanut-tolerance associated with distinct microbiota signature**
Srivastava K., Cao M., FİDAN Ö., Shi Y., Yang N., Nowak-Wegrzyn A., Miao M., Zhan J., Sampson H. A., Li X.
Frontiers in Immunology, vol.14, 2023 (SCI-Expanded)
- VIII. **In silico evaluation of food-derived carotenoids against SARS-CoV-2 drug targets: Crocin is a promising dietary supplement candidate for COVID-19**
Mujwar S., Sun L., FİDAN Ö.
JOURNAL OF FOOD BIOCHEMISTRY, vol.46, no.9, 2022 (SCI-Expanded)
- IX. **Biosynthesis of Novel Naphthoquinone Derivatives in the Commonly-used Chassis Cells *Saccharomyces cerevisiae* and *Escherichia coli***
Wu W., Wang S., Zhang H., Guo W., Lu H., Xu H., Zhan R., FİDAN Ö., Sun L.
Applied Biochemistry and Microbiology, vol.57, 2021 (SCI-Expanded)
- X. **Discovery and engineering of an endophytic *Pseudomonas* strain from *Taxus chinensis* for efficient production of zeaxanthin diglucosided**
Fidan Ö., Zhan J.
JOURNAL OF BIOLOGICAL ENGINEERING, vol.13, no.1, 2019 (SCI-Expanded)
- XI. **Improved production of antifungal angucycline Sch47554 by manipulating three regulatory genes in *Streptomyces* sp. SCC-2136**
Fidan Ö., Yan R., Zhu D., Zhan J.
BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, vol.66, no.4, pp.517-526, 2019 (SCI-Expanded)
- XII. **Identification of new glutamate decarboxylases from *Streptomyces* for efficient production of γ -aminobutyric acid in engineered *Escherichia coli***
Yuan H., Wang H., Fidan Ö., Qin Y., Xiao G., Zhan J.
JOURNAL OF BIOLOGICAL ENGINEERING, vol.13, 2019 (SCI-Expanded)
- XIII. **New Insights into the Glycosylation Steps in the Biosynthesis of Sch47554 and Sch47555**
Fidan Ö., Yan R., Gladstone G., Zhou T., Zhu D., Zhan J.
CHEMBIOCHEM, vol.19, no.13, pp.1424-1432, 2018 (SCI-Expanded)
- XIV. **Recent advances in engineering yeast for pharmaceutical protein production**

Fidan Ö., Zhan J.

RSC ADVANCES, vol.5, no.105, pp.86665-86674, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Draft genome of carotenoid-producing endophytic *Pseudomonas* sp. 102515 from *Taxus chinensis***
Fidan O.
Microbiology Resource Announcements, vol.13, no.6, 2024 (ESCI)
- II. **In silico Evaluation of the Potential of Natural Products from Chili Pepper as Antiviral Agents Against Dna-Directed Rna Polymerase of the Monkeypox Virus**
Fidan O., MUJWAR S.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.13, no.1, pp.277-291, 2024 (Peer-Reviewed Journal)
- III. **Investigation of Antiviral Potential of Food Carotenoids and Apocarotenoids against RNA-dependent RNA Polymerase of Hepatitis C Virus**
Fidan O.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.11, no.3, pp.931-942, 2022 (Peer-Reviewed Journal)
- IV. **Engineered production of bioactive natural products from medicinal plants**
FİDAN Ö., Ren J., Zhan J.
WORLD JOURNAL OF TRADITIONAL CHINESE MEDICINE, vol.8, no.1, pp.59-76, 2022 (ESCI)

Books

- I. **Carotenoids and Their Antioxidant Power**
Arslansoy N., Fidan Ö.
in: The Power of Antioxidants - Unleashing Nature's Defense Against Oxidative Stress, Ana Novo Barros, Ana Cristina Santos Abraão, Editor, IntechOpen, London, pp.1-15, 2024
- II. **Molecular Farming for the Production of Recombinant Pharmaceutical Proteins in Plants**
Fidan Ö., Secgin Z.
in: Applications of Plant Molecular Farming, Chittaranjan Kole, Anurag Chaurasia, Kathleen L. Hefferon, Jogeswar Panigrahi, Editor, Springer, London/Berlin, Singapore, pp.235-258, 2024
- III. **Microbial Production of Pharmaceutically Important Plant Natural Products**
Fidan Ö.
in: Applications of Plant Molecular Farming, Chittaranjan Kole, Anurag Chaurasia, Kathleen L. Hefferon, Jogeswar Panigrahi, Editor, Springer, London/Berlin, Singapore, pp.487-513, 2024
- IV. **Reconstitution of Medicinally Important Plant Natural Products in Microorganisms**
FİDAN Ö., Zhan J.
in: Molecular Pharming: Applications, Challenges, and Emerging Areas, Kermode Allison R., Jiang Liwen, Editor, John Wiley Sons, Inc., Hoboken, NJ, pp.383-415, 2019

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Microbial production of carotenoids in engineered endophytic *Pseudomonas* sp. 102515.**
Fidan Ö., Arslansoy N.
6th Eurasia Biochemical Approaches & Technologies Congress (EBAT), Tokat, Turkey, 24 - 27 October 2024, pp.1
- II. **Biosynthesis of high value-added carotenoids by engineered microorganisms**
Fidan Ö., Arslansoy N.
6th International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 11 - 13 October 2023, pp.179

- III. **Enzymatic halogenation of flavonoids by a fungal flavin-dependent halogenase**
Fidan Ö.
III. International Enzyme and Bioprocess Days, Tokat, Turkey, 9 - 11 September 2022, pp.1
- IV. **Berberine-containing Natural Medicine Confers Sustained Peanut Tolerance Associated with Distinct Microbiota Signature**
FİDAN Ö., Zhan J.
Annual Meeting of the American Academy of Allergy Asthma and Immunology, Philadelphia, United States Of America, 13 - 16 March 2020
- V. **The Roles of Three Regulatory Proteins in the Biosynthesis of Angucyclines Sch47554 and Sch47555**
FİDAN Ö., Zhan J.
Institute of Biological Engineering (IBE) Annual Conference, 5 - 07 April 2018
- VI. **Isolation of an endophytic carotenoid-producing Pseudomonas strain and functional analysis of the carotenoid biosynthetic genes**
FİDAN Ö., Zhan J.
Institute of Biological Engineering (IBE) Annual Conference, 5 - 07 April 2018
- VII. **Functional characterization of three glycosyltransferases involved in the biosynthesis of Sch47554 and Sch47555**
FİDAN Ö., Yan R., Zhan J.
Institute of Biological Engineering (IBE) Annual Conference, 30 March - 01 April 2017
- VIII. **Vapor phase deposition of alkyl- and fluoro-silanes on nanoporous glass**
FİDAN Ö., Britt D.
ACS 2014 Colloid Surface Science Symposium, 22 - 25 June 2014

Peer Reviews in Scientific Publications

Journal of Bioscience and Bioengineering, Journal Indexed in SCI-E, September 2024
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi , National Scientific Refreed Journal, March 2024
BMC Microbiology, Journal Indexed in SCI-E, January 2024
Journal of Basic and Clinical Health Sciences, National Scientific Refreed Journal, November 2023
BMC Microbiology, Journal Indexed in SCI-E, November 2023
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, Journal Indexed in SCI-E, September 2023
Acta Virologica, Journal Indexed in SCI-E, July 2023
BMC Genomics, Journal Indexed in SCI-E, April 2023
Catalysis Science & Technology, Journal Indexed in SCI-E, April 2023
Frontiers in Microbiology, Journal Indexed in SCI-E, March 2023
Current Protein & Peptide Science, Other Indexed Journal, January 2023
ACTA VIROLOGICA, Journal Indexed in SCI-E, August 2022
Biotechnology And Applied Biochemistry, Journal Indexed in SCI-E, January 2021

Metrics

Publication: 31
Citation (WoS): 60
Citation (Scopus): 190
H-Index (WoS): 5
H-Index (Scopus): 8

Awards

Fidan Ö., Outstanding Engineering Graduate Scholar of 2018, Utah State University, February 2019