

Dr. CEYDA KASAVİ

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International Researcher IDs

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Publons / Web Of Science ResearcherID: GVS-6400-2022

ScopusID: 37050061300

Yoksis Researcher ID: 309576

Biography

Ceyda Kasavi received her Ph.D. degree in Chemical Engineering from Boğaziçi University in 2013 and she is currently working as an Assistant Professor at the Bioengineering Department of Marmara University (Istanbul, Turkey). Her research activities have been focused on systems biology. She has an experience on the development of biological production processes by yeast and extremophiles, the reconstruction and analysis of biological networks to understand the mechanisms behind the cellular processes, the integration and analysis of different omics data, and development of new diagnosis and treatment strategies for complex human diseases by employing systems biology approaches.

Education Information

Doctorate, Bogazici University, Institute Of Science, Chemical Engineering, Turkey 2007 - 2013

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 2003 - 2006

Undergraduate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, Turkey 1998 - 2003

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, A System Based Rational Approach to Improve First and Second Generation Bioethanol Production by *Saccharomyces cerevisiae*, Bogazici University, Institute Of Science, Kimya Mühendisliği, 2013

Postgraduate, Kovalent Bağlanma ve Fiziksel Adsorpsiyon Metotları ile Proteaz Enziminin İmmobilizasyonu, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 2006

Research Areas

Biotechnology, Life Sciences, Bioinformatics, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Engineering, Bioengineering, 2019 - Continues

Courses

Biostatistics, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

System Biology, Postgraduate, 2020 - 2021, 2019 - 2020

Bioconversion of Lignocellulosics, Undergraduate, 2020 - 2021, 2017 - 2018, 2016 - 2017

Bioengineering Project II, Undergraduate, 2020 - 2021

Modern Techniques in Biochemical Engineering , Undergraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018

Bioengineering Principles, Undergraduate, 2020 - 2021, 2019 - 2020

Bioengineering Project I, Undergraduate, 2020 - 2021

Mathematical Applications in Bioengineering Systems, Undergraduate, 2019 - 2020

Regulation of Gene Expression, Doctorate, 2020 - 2021

Biomass and Biorefineries, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Idiopathic Pulmonary Arterial Hypertension: Network-Based Integration of Multi-Omics Data Reveals New Molecular Signatures and Candidate Drugs**
KASAVI C.
OMICS A Journal of Integrative Biology, vol.27, no.7, pp.315-326, 2023 (SCI-Expanded)
- II. **Gene co-expression network analysis revealed novel biomarkers for ovarian cancer**
KASAVI C.
FRONTIERS IN GENETICS, vol.13, 2022 (SCI-Expanded)
- III. **Genomic Analysis Provides New Insights Into Biotechnological and Industrial Potential of *Parageobacillus thermantarcticus* M1**
YILDIZ S. Y., Finore I., Leone L., Romano I., Lama L., KASAVI C., Nicolaus B., TOKSOY ÖNER E., Poli A.
FRONTIERS IN MICROBIOLOGY, vol.13, 2022 (SCI-Expanded)
- IV. **Multimomics Data Integration Identifies New Molecular Signatures for Abdominal Aortic Aneurysm and Aortic Occlusive Disease: Implications for Early Diagnosis, Prognosis, and Therapeutic Targets**
Kori M., Cig D., Arga K. Y., Kasavi C.
OMICS A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, no.5, pp.1-15, 2022 (SCI-Expanded)
- V. **Developments in effective use of volatile organic compound analysis to assess flavour formation during cheese ripening**
Yavuz M., KASAVI C., Oner E. T.
JOURNAL OF DAIRY RESEARCH, vol.88, pp.461-467, 2021 (SCI-Expanded)
- VI. **Process development for the continuous production of heterologous proteins by the industrial yeast, *Komagataella phaffii***
Cankorur-Cetinkaya A., Narraidoo N., Kasavi C., Slater N. K. H., Archer D. B., Oliver S. G.
BIOTECHNOLOGY AND BIOENGINEERING, vol.115, no.12, pp.2962-2973, 2018 (SCI-Expanded)
- VII. ***Halomonas smyrnensis* as a cell factory for co-production of PHB and levan**
Tohme S., Haciosmanoğlu G. G., Eroğlu M. S., Kasavi C., Genç S., Can Z. S., Oner E. T.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.118, pp.1238-1246, 2018 (SCI-Expanded)
- VIII. **An integrative analysis of transcriptomic response of ethanol tolerant strains to ethanol in *Saccharomyces cerevisiae***
Kasavi C., Eraslan S., Oner E., Kirdar B.
MOLECULAR BIOSYSTEMS, vol.12, no.2, pp.464-476, 2016 (SCI-Expanded)

- IX. **The global transcriptional response of a raw starch-degrading amylolytic *Saccharomyces cerevisiae* strain to oxygen limitation and genetic modification**
Kasavi C., Eraslan S., TOKSOY ÖNER E., KIRDAR B.
TURKISH JOURNAL OF BIOLOGY, vol.40, no.3, pp.684-723, 2016 (SCI-Expanded)
- X. **A system based network approach to ethanol tolerance in *Saccharomyces cerevisiae***
Kasavi C., Eraslan S., ARĞA K. Y., Oner E. T., KIRDAR B.
BMC SYSTEMS BIOLOGY, vol.8, 2014 (SCI-Expanded)
- XI. **Evaluation of industrial *Saccharomyces cerevisiae* strains for ethanol production from biomass**
Kasavi C., Finore I., Lama L., Nicolaus B., Oliver S. G., Oner E. T., KIRDAR B.
BIOMASS & BIOENERGY, vol.45, pp.230-238, 2012 (SCI-Expanded)
- XII. **Purification, biochemical characterization and gene sequencing of a thermostable raw starch digesting alpha-amylase from *Geobacillus thermoleovorans* subsp *stromboliensis* subsp nov.**
Finore I., Kasavi C., Poli A., Romano I., Oner E. T., KIRDAR B., Dipasquale L., Nicolaus B., Lama L.
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.27, no.10, pp.2425-2433, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Potential biomarkers for lung adenocarcinoma identified by integrative transcriptomics analysis**
KASAVI C.
Biotech Studies, vol.30, no.1, pp.33-42, 2021 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Research and Production of Microbial Polymers for Food Industry**
Selvi S. S., Eminagic E., Kandur M. Y., Ozcan E., Kasavi C., Toksoy Öner E.
in: Bioprocessing for Biomolecules Production, Gustavo Molina, Vijai Gupta, Brahma Singh, Nicholas Gathergood, Editor, John Wiley & Sons, West Sussex, UK , New-Jersey, pp.211-238, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Molecular Substrates of COVID-19 and Pulmonary Arterial Hypertension Identified Through Signalling Network Construction**
Cig D., KASAVI C.
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 - 13 October 2023, pp.429
- II. **Analysis of multi-omics data revealed candidate drugs for COVID-19**
Cig D., KASAVI C.
16th International Symposium on Health Informatics and Bioinformatics (HIBIT), Ankara, Turkey, 4 - 06 October 2023
- III. **İdiyopatik pulmoner fibrozise yönelik moleküler belirteçlerin sistem biyolojisi yaklaşımları ile belirlenmesi**
AKÇA M. N., KASAVI C.
25. Ulusal Biyoloji Kongresi, İzmir, Turkey, 13 - 15 July 2023, pp.199
- IV. **Identification of common signatures in pulmonary diseases by bioinformatic analysis**
KASAVI C.
International Congress of Multidisciplinary Medical and Health Sciences Studies, Ankara, Turkey, 27 May 2023
- V. **Microbial and Enzymatic Production of Halomonas Levan**
KIRTEL O., KASAVI C., TOKSOY ÖNER E.

IX. International Fructan Symposium, İstanbul, Turkey, 10 October 2022

VI. Biyoinformatik analizlerle COVID-19 ve pulmoner arteriyel hipertansiyon ile ilişkili aktif modüllerin belirlenmesi

Cig D., KASAVI C.

11. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Online, Turkey, 08 October 2022

VII. Differential co-expression network analysis revealed a novel prognostic module in thyroid cancer
KASAVI C.

2nd International Symposium of Scientific Research and Innovative Studies (ISSRIS'22), Online, Turkey, 02 March 2022

VIII. A System-based network approach to identify prognostic biomarker candidates for lung adenocarcinoma
KASAVI C.

4. Uluslararası Erciyes Bilimsel Araştırmalar Kongresi, Kayseri, Turkey, 16 October 2020

IX. A systems based approach to understand transcriptional differences of amylolytic saccharomyces cerevisiae strains developed for bioethanol production

Kasavi C., Oner E. T., Kirdar B.

22nd IUBMB Congress/37th FEBS Congress, Sevilla, Spain, 4 - 09 September 2012, vol.279, pp.521-522

Supported Projects

Kasavi C., Soyer S. M., Project Supported by Higher Education Institutions, Glioma Alt Türlerine Özgü Aday Biyobelirteç ve Terapötiklerin Belirlenmesi için Makine Öğrenmesi Yöntemleri, 2024 - 2025

Toksoy Öner E., Kasavi C., Yıldız S. Y., TÜBİTAK International Bilateral Joint Cooperation Program Project, Biyorafineri Yaklaşımları ve Termozimlerle Ksılan İçerikli Biyokütlenin Değerlendirilmesi, 2023 - 2025

Kasavi C., Arğa K. Y., Erzik C., Çalışkan M., Yılmaz B., TUBITAK Project, Abdominal aort anevrizmasının erken teşhis ve tedavisine yönelik biyobelirteç ve ilaç adayların belirlenmesi, 2021 - 2023

Orešič M., Gonzalez E., Eerola T., Rousu J., Aldana J., Greiner- Stöffele T., Oliver S., Kasavi C., FP7 Project, BIOLEDGE (BIO knowLEDGE Extractor and Modeller for Protein Production), 2011 - 2015

Student Project

R & D Project, Polikistik Over Sendromu için Sistem Biyolojisi Yaklaşımı ile Farklı Seviyelerde Biyolojik Moleküller Üzerinden İlaç Repozisyonu , Marmara University, Faculty of Engineering, Bioengineering, Turkey, 2023 - Continues

R & D Project, Transkriptomik Verilerin Genom-Seviyeli Biyolojik Modeller ile Bütünleşik İncelenmesi Sonucunda Pulmoner Arteriyel Hipertansiyon Hastalığına Yönelik Biyobelirteç Adaylarının Belirlenmesi, Marmara University, Faculty of Engineering, Bioengineering, Turkey, 2021 - 2022

Metrics

Publication: 23

Citation (WoS): 132

Citation (Scopus): 172

H-Index (WoS): 6

H-Index (Scopus): 6

Non Academic Experience

Cambridge University