

Assoc. Prof. YEŞİM SOYER

Personal Information

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Education Information

Doctorate, Cornell University, United States Of America 2004 - 2009

Postgraduate, Ankara Üniversitesi, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, Turkey 1999 - 2001

Undergraduate, Ankara Üniversitesi, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, Turkey 1995 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, TRANSMISSION AND EVOLUTION OF SALMONELLA, Cornell University, 2009

Postgraduate, Beyaz üzümelerde ve üzüm sularında organik asit dağılımı, Ankara Üniversitesi, 2001

Research Areas

Food Engineering

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2017 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2011 - 2017

Assistant Professor, Harran Üniversitesi, Ziraat Fakültesi, Gıda Mühendisliği Bölümü, 2010 - 2011

Research Assistant, Harran Üniversitesi, Ziraat Fakültesi, Gıda Mühendisliği Bölümü, 2009 - 2010

Expert, Cornell University, Agriculture And Life Sciences, Food Science, 2009 - 2009

Research Assistant, Cornell University, Agriculture And Life Sciences, Food Science , 2004 - 2009

Academic and Administrative Experience

Head of Department, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biochemistry, 2018 - Continues

Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2013 - 2016

Courses

FOOD BIOTECHNOLOGY, Undergraduate, 2017 - 2018

Food Microbiology Lab, Undergraduate, 2012 - 2013

Advising Theses

SOYER Y., Characterization of plasmids from multi drug resistant Salmonella infantis isolates, Postgraduate, S.ÖZLEM(Student), 2018

SOYER Y., Conjugative transfer of antibiotic resistance genes from Salmonella enterica serovar infantis to Escherichia coli, Postgraduate, A.CESUR(Student), 2018

SOYER Y., Virulence and antimicrobial resistance genes transfer mechanism between salmonella strains by means of Salmonella genomic island 1, Postgraduate, Ş.NAMLI(Student), 2018

SOYER Y., Characterization of plasmids form multi drug resistance salmonella infantis isolates, Postgraduate, S.Özlem(Student), 2018

ÜNALAN H. E. , SOYER Y., Detection of antimicrobial effect of silver nanowires embedded in poly lactic acid (PLA) and filter paper on pathogenic bacteria, Postgraduate, C.PERK(Student), 2016

SOYER Y., ÖZTOP H. M. , Formulation, characterization and antimicrobial effect of cinnamon oil nanoemulsions, Postgraduate, S.TUTKU(Student), 2015

SOYER Y., Phenotypic and genetic characterization of antimicrobial resistance in salmonella isolates from different sources in Turkey, Doctorate, S.ACAR(Student), 2015

AKKAYA M., SOYER Y., Molecular characterization of Salmonella isolates from animals and various foods, Postgraduate, B.DURUL(Student), 2014

SOYER Y., Molecular evaluation and antimicrobial susceptibility testing of escherichia coli isolates collected from various food products in Turkey/, Postgraduate, E.OWUSU(Student), 2014

SOYER Y., ÖZCENGİZ G., Subtyping of Salmonella isolated from human clinical and animal non-clinical cases, as well as different food samples using pulsed field gel electrophoresis (PFGE), Postgraduate, E.BULUT(Student), 2014

ALPAS H., SOYER Y., Salmonella surveillance on fresh produce and inactivation by high hydrostatic pressure, Postgraduate, E.GÜNEL(Student), 2014

ALPAS H., SOYER Y., Surveillance study of Salmonella in fresh peppers (Capsicum annum L.) and inactivation by high hydrostatic pressure treatment, Postgraduate, Ö.GÖZDE(Student), 2014

SOYER Y., Molecular characterization of salmonella isolates from animals and various foods /, Postgraduate, B.Durul(Student), 2014

SOYER Y., ÖZCENGİZ G., Subtyping of salmonella isolated from human clinical and animal non-clinical cases, as well as different food samples using pulsed field gel electrophoresis (PFGE) /, Postgraduate, E.Bulut(Student), 2014

Designed Lessons

Soyer Y., Microbial Genotyping in Food Microbiology, Postgraduate, 2010 - 2011

Taught Courses And Trainings

Soyer Y., Food Microbiology Workshop for Afghan Government Food Safety Personnel, 2013 - 2013

Soyer Y., Training on Foodborne pathogens: diagnostics, safety, bio-security, molecular typing and food protection, 2012 - 2012

Soyer Y., Second International Molecular Methods in Food Microbiology Symposium and Workshop Series, 2010 - 2010

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **The effect of polyacid on the physical and biological properties of chitosan based layer-by-layer films**
Saracogullari N., GÜNDOĞDU D., ÖZDEMİR F. N. , SOYER Y., EREL GÖKTEPE İ.
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.617, 2021 (Journal Indexed in SCI)
- II. **Effect of Non-LAB Probiotics on Foodborne Enteric Pathogens: A Systematic Review**
Yeni F., Samut H., Soyer Y.
Food Reviews International, 2021 (Journal Indexed in SCI)
- III. **Genome analysis of antimicrobial resistance, virulence, and plasmid presence in Turkish Salmonella serovar Infantis isolates**
Acar S., Bulut E., Stasiewicz M. J. , SOYER Y.
INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY, vol.307, 2019 (Journal Indexed in SCI)
- IV. **Isolation and molecular characterization of Salmonella enterica and Escherichia coli from poultry samples**
Cesur A., Ulutas S. O. , Soyer Y.
TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, vol.43, no.3, pp.408-422, 2019 (Journal Indexed in SCI)
- V. **Cinnamon oil nanoemulsions by spontaneous emulsification: Formulation, characterization and antimicrobial activity**
YILDIRIM S. T. , Oztop M. H. , SOYER Y.
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.84, pp.122-128, 2017 (Journal Indexed in SCI)
- VI. **Phenotyping and genetic characterization of Salmonella enterica isolates from Turkey revealing arise of different features specific to geography**
Acar S., Bulut E., Durul B., Uner I., Kur M., AVŞAROĞLU ERKAN M. D. , KIRMACI H. A. , Tel Y. O. , YILDIZ ZEYREK F., SOYER Y.
INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY, vol.241, pp.98-107, 2017 (Journal Indexed in SCI)
- VII. **How can we improve foodborne disease surveillance systems: A comparison through EU and US systems**
Yeni F., Acar S., Soyer Y., Alpas H.
FOOD REVIEWS INTERNATIONAL, vol.33, pp.406-423, 2017 (Journal Indexed in SCI)
- VIII. **Vulnerabilities, Threats and Gaps in Food Biosecurity**
Fletcher J., ALPAS H., Henry C. M. , Haynes E., Dehne H. W. , Ma L. M. , SOYER Y., Yeni F., Colla P., Robb P.
PRACTICAL TOOLS FOR PLANT AND FOOD BIOSECURITY: RESULTS FROM A EUROPEAN NETWORK OF EXCELLENCE, VOL 8, vol.8, pp.61-75, 2017 (Journal Indexed in SCI)
- IX. **Recent Outbreaks of Human Pathogens on Plants (HPOPs) on Fresh Produce - Lessons Learned from the Practice**
ALPAS H., Yeni F., SOYER Y., Fletcher J.
PRACTICAL TOOLS FOR PLANT AND FOOD BIOSECURITY: RESULTS FROM A EUROPEAN NETWORK OF EXCELLENCE, VOL 8, vol.8, pp.77-96, 2017 (Journal Indexed in SCI)
- X. **Most Common Foodborne Pathogens and Mycotoxins on Fresh Produce: A Review of Recent Outbreaks**
Yeni F., Yavaş S., Alpas H., Soyer Y.
CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION, vol.56, pp.1532-1544, 2016 (Journal Indexed in SCI)
- XI. **Subtyping of Salmonella Food Isolates Suggests the Geographic Clustering of Serotype Telaviv**
Durul B., Acar S., Bulut E., Kyere E. O. , SOYER Y.
FOODBORNE PATHOGENS AND DISEASE, vol.12, no.12, pp.958-965, 2015 (Journal Indexed in SCI)
- XII. **Molecular evaluation and antimicrobial susceptibility testing of Escherichia coli isolates from food products in Turkey**
Kyere E. O. , Bulut E., AVŞAROĞLU ERKAN M. D. , SOYER Y.
FOOD SCIENCE AND BIOTECHNOLOGY, vol.24, no.3, pp.1001-1009, 2015 (Journal Indexed in SCI)
- XIII. **Salmonella surveillance on fresh produce in retail in Turkey**
Gunel E., Kilic G. P. , Bulut E., Durul B., Acar S., Alpas H., Soyer Y.

INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY, vol.199, pp.72-77, 2015 (Journal Indexed in SCI)

- XIV. **Rapid and standardized methods for detection of foodborne pathogens and mycotoxins on fresh produce**
YENI F., ACAR S., POLAT Ö., SOYER Y., ALPAS H.
FOOD CONTROL, vol.40, pp.359-367, 2014 (Journal Indexed in SCI)
- XV. **Antimicrobial Drug Resistance Patterns among Cattle- and Human-Associated Salmonella Strains**
SOYER Y., Richards J., Hoelzer K., Warnick L. D. , Fortes E., McDonough P., Dumas N. B. , Groehn Y. T. , Wiedmann M.
JOURNAL OF FOOD PROTECTION, vol.76, no.10, pp.1676-1688, 2013 (Journal Indexed in SCI)
- XVI. **The Prevalence of Multidrug Resistance Is Higher among Bovine than Human Salmonella enterica Serotype Newport, Typhimurium, and 4,5,12:i:- Isolates in the United States but Differs by Serotype and Geographic Region**
Hoelzer K., Soyer Y., Rodriguez-Rivera L. D. , Cummings K. J. , McDonough P. L. , Schoonmaker-Bopp D. J. , Root T. P. , Dumas N. B. , Warnick L. D. , Groehn Y. T. , et al.
APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.76, no.17, pp.5947-5959, 2010 (Journal Indexed in SCI)
- XVII. **Development and validation of a resistance and virulence gene microarray targeting Escherichia coli and Salmonella enterica**
Davis M. A. , Lim J. Y. , Soyer Y., Harbottle H., Chang Y., New D., Orfe L. H. , Besser T. E. , Call D. R.
JOURNAL OF MICROBIOLOGICAL METHODS, vol.82, no.1, pp.36-41, 2010 (Journal Indexed in SCI)
- XVIII. **Pulsed-Field Gel Electrophoresis Diversity of Human and Bovine Clinical Salmonella Isolates**
Soyer Y., Alcaine S. D. , Schoonmaker-Bopp D. J. , Root T. P. , Warnick L. D. , McDonough P. L. , Dumas N. B. , Groehn Y. T. , Wiedmann M.
FOODBORNE PATHOGENS AND DISEASE, vol.7, no.6, pp.707-717, 2010 (Journal Indexed in SCI)
- XIX. **Genome wide evolutionary analyses reveal serotype specific patterns of positive selection in selected Salmonella serotypes**
Soyer Y., Orsi R. H. , Rodriguez-Rivera L. D. , Sun Q., Wiedmann M.
BMC EVOLUTIONARY BIOLOGY, vol.9, 2009 (Journal Indexed in SCI)
- XX. **Salmonella enterica Serotype 4,5,12:i:-, an Emerging Salmonella Serotype That Represents Multiple Distinct Clones**
Soyer Y., Switt A. M. , Davis M. A. , Maurer J., McDonough P. L. , Schoonmaker-Bopp D. J. , Dumas N. B. , Root T. , Warnick L. D. , Groehn Y. T. , et al.
JOURNAL OF CLINICAL MICROBIOLOGY, vol.47, no.11, pp.3546-3556, 2009 (Journal Indexed in SCI)
- XXI. **Fecal shedding of, antimicrobial resistance in, and serologic response to SalmonellaTyphimurium in dairy calves**
Alexander K. A. , Warnick L. D. , Cripps C. J. , McDonough P. L. , Grohn Y. T. , Wiedmann M., Reed K. E. , James K. L. , Soyer Y., Ivanek R.
JAVMA-JOURNAL OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION, vol.235, no.6, pp.739-748, 2009 (Journal Indexed in SCI)
- XXII. **Multilocus Variable-Number Tandem-Repeat Method for Typing Salmonella enterica Serovar Newport**
Davis M. A. , Baker K. N. K. , Call D. R. , Warnick L. D. , Soyer Y., Wiedmann M., Grohn Y., McDonough P. L. , Hancock D. D. , Besser T. E.
JOURNAL OF CLINICAL MICROBIOLOGY, vol.47, no.6, pp.1934-1938, 2009 (Journal Indexed in SCI)
- XXIII. **Emergence, Distribution, and Molecular and Phenotypic Characteristics of Salmonella enterica Serotype 4,5,12:i:-**
Switt A. I. M. , Soyer Y., Warnick L. D. , Wiedmann M.
FOODBORNE PATHOGENS AND DISEASE, vol.6, no.4, pp.407-415, 2009 (Journal Indexed in SCI)
- XXIV. **Assessing genetic heterogeneity within bacterial species isolated from gastrointestinal and environmental samples: How many isolates does it take?**
Dopfer D., Buist W., Soyer Y., Munoz M. A. , Zadoks R. N. , Geue L., Engel B.
APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.74, no.11, pp.3490-3496, 2008 (Journal Indexed in SCI)
- XXV. **Multidrug-resistant Salmonella typhimurium, Pacific Northwest, United States**

Davis M. A. , Besser T. E. , Eckmann K, MacDonald J. K. , Green D., Hancock D. D. , Baker K. N. K. , Warnick L. D. , Soyer Y., Wiedmann M., et al.

EMERGING INFECTIOUS DISEASES, vol.13, no.10, pp.1583-1586, 2007 (Journal Indexed in SCI)

XXVI. Multilocus sequence typing supports the hypothesis that cow- and human-associated Salmonella isolates represent distinct and overlapping populations

Alcaine S. D. , Soyer Y., Warnick L. D. , Su W. -. , Sukhnanand S., Richards J., Fortes E. D. , McDonough P., Root T. P. , Dumas N. B. , et al.

APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.72, no.12, pp.7575-7585, 2006 (Journal Indexed in SCI)

XXVII. Antioxidant activity of selected fruits and vegetables grown in Turkey

Karadeniz F., Burdurlu H. S. , Koca N., Soyer Y.

Turkish Journal of Agriculture and Forestry, vol.29, no.4, pp.297-303, 2005 (Journal Indexed in SCI Expanded)

XXVIII. Organic acid profile of Turkish white grapes and grape juices

Soyer Y., Koca N., Karadeniz F.

JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.16, no.5, pp.629-636, 2003 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Determination of colistin resistance in Escherichia coli isolates from foods in Turkey, 2011-2015

GÜZEL M., Avşaroğlu M. D. , SOYER Y.

Food and Health, vol.6, no.3, pp.160-169, 2020 (Other Refereed National Journals)

II. Microbial Control of Milk and Milk Products

Guzel M., SOYER Y.

MICROBIAL CONTROL AND FOOD PRESERVATION: THEORY AND PRACTICE, pp.255-280, 2017 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

I. Tarçın Yağı ile Hazırlanmış Mikroemülsiyon Nanoemülsiyonların Karakterizasyonu ve Antimikrobiyel Etkisinin İncelenmesi

Yıldırım S. T. , SOYER Y., ÖZTOP H. M.

5. Gıda Güvenliği Kongresi, Turkey, 7 - 08 May 2015

II. Comparative Genomic Analysis of 5 fully Sequenced Salmonella Genomes

SOYER Y., Orsi R., Sun Q., Wiedmann M.

Annual Meeting of the American Society of Microbiology, Toronto, Canada, 21 - 25 May 2007

Supported Projects

SOYER Y., GÜZEL M., Project Supported by Higher Education Institutions, Gıda Kaynaklı Salmonella entericada sefalosporin ve kinolon direncinin genomik karakterizasyonu, 2020 - Continues

SOYER Y., KOÇ E., Project Supported by Higher Education Institutions, Farklı Yetiştirme Metodlarından Elde Edilen Yumurtalarda Salmonella Tehdinin Belirlenmesi, 2020 - 2021

SOYER Y., Güzel M., Project Supported by Higher Education Institutions, Salmonella izolatların Vuruşlu Alan Jel Elektroforezi (PFGE) kullanılarak serotiplendirilmesi, 2018 - 2019

SOYER Y., Cesur A., Project Supported by Higher Education Institutions, Maitake (Grifola frondosa), Nameko (Pholiota microspora) ve Shiitake (Lentinula edodes) Ekstraktların Gıda Ürünlerinde Biyofilm Oluşturan Bakterilerin Eliminasyonuna Olan Etkileri, 2017 - 2019

SOYER Y., Project Supported by Higher Education Institutions, ISIRGAN OTU EKSTRAKTIN GIDA ÜRÜNLERİNDE BİYOFİLM OLUŞTURAN BAKTERİLERİN ELİMİNASYONUNA OLAN ETKİLERİ, 2017 - 2017

SOYER Y., Project Supported by Higher Education Institutions, SIĞIRLARIN LENF DÜĞÜMLERİNDEN İZOLE EDİLEN SALMONELLA İZOLATLARININ FENOTİPİK VE GENETİK OLARAK KARAKTERİZASYONU, 2017 - 2017

SOYER Y., Project Supported by Higher Education Institutions, TÜRKİYEDEKİ ATIK ÖRNEKLERİNDE BULUNAN SALMONELLA SPP.KARAKTERİZASYONU, 2017 - 2017

SOYER Y., Project Supported by Higher Education Institutions, HASTALIK YAPICI GEN VE ANTİMİKROBİYAL GEN PROFİLİ TESPİTİ VE SALMONELLA SUŞLARI ARASINDA BU GENLERİN AKTARIM MEKANİZMASININ ARAŞTIRILMASI, 2017 - 2017

SOYER Y., TUBITAK Project, Sıcak Yemeklerin Raf Ömrünü Uzatmak İçin Buzdolabında İdeal Saklama Koşullarının Belirlenmesi ve Buna Uygun Özel Soğutucu Bölmenin Tasarlanarak Buzdolaplarına Uygulanması, 2015 - 2017

SOYER Y., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

SOYER Y., Cengiz S., Project Supported by Higher Education Institutions, SALMONELLA'NIN BİYOFİLM ÜRETİMİNİN VE DEZENFEKTANLARLA İLE ETKİLEŞİMİNİN İNCELENMESİ, 2014 - 2016

SOYER Y., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

SOYER Y., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

SOYER Y., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

SOYER Y., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

SOYER Y., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

SOYER Y., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

SOYER Y., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

SOYER Y., KYERE E. O. , Project Supported by Higher Education Institutions, SÜT VE SÜT ÜRÜNLERİNDEN İZOLE EDİLEN ESCHERICHIA COLI İZOLATLARININ MOLEKÜLER TİPLENDİRİLMESİ, 2013 - 2013

SOYER Y., ZORLUCAN T. F. , KYERE E. O. , Ozer E., Project Supported by Higher Education Institutions, HAYVANSAL GIDALARDA YAYGIN BULUNAN PATOJENLERİN ALT TİPLENDİRİLMESİ, 2013 - 2013

SOYER Y., BULUT E., Project Supported by Higher Education Institutions, KLİNİK İNSAN VE HAYVAN VAKALARI İLE GIDALARDAKİ SALMONELLA ÇEŞİTLİLİĞİNİN VURUŞLU ALAN JEL ELEKTROFOREZİ (PFGE) KULLANILARAK MOLEKÜLER DÜZEYDE BELİRLENMESİ, 2013 - 2013

SOYER Y., DURUL B., Project Supported by Higher Education Institutions, GIDALARDAKİ VE KLİNİK HAYVAN VAKALARINDAKİ SALMONELLA İZOLAT ÇEŞİTLİLİĞİNİN MOLEKÜLER DÜZEYDE BELİRLENMESİ, 2013 - 2013

SOYER Y., Gunel E., Polat O. G. , Project Supported by Higher Education Institutions, Taze Meyve Ve Sebzelere Yaygın Bulunan Patojenlerin Alt Tiplendirilmesi., 2012 - 2013

SOYER Y., Project Supported by Higher Education Institutions, Moleküler Alt Tipleme Kapasitesi Kurulması, 2012 - 2012

Scientific Refereeing

TUBITAK Project, 2232 - Dormitory Research Scholarship Program, TÜBİTAK, Turkey, December 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, September 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, September 2020

INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY, Journal Indexed in SCI-E, June 2020

TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, TÜBİTAK, Turkey, June 2020

TUBITAK Project, 1002 - Quick Support Program, TÜBİTAK, Turkey, May 2020

TUBITAK Project, 3501 - National Young Researcher Career Development Program, TÜBİTAK, Turkey, March 2020

PLOS ONE, Journal Indexed in SCI-E, February 2020

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, Turkey, January 2020

BMC GENOMICS, Journal Indexed in SCI-E, February 2019

Scientific Consultations

Tarım ve Orman Bakanlığı, Scientific Consultancy, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, Turkey, 2020 - Continues

Tarım ve Orman Bakanlığı, Scientific Consultancy, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, Turkey, 2016 - 2020

Citations

Total Citations (WOS):831

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