

Prof. Dr. MEHMET İNAN

Kişisel Bilgiler

İş Telefonu: [+90 242 310 2418](tel:+902423102418)

İş Telefonu: [+90 242 227 4400](tel:+902422274400) Dahili: 2575

Fax Telefonu: [+90 242 227 2058](tel:+902422272058)

E-posta: minan@akdeniz.edu.tr

Web: <https://avesis.akdeniz.edu.tr/minan>

Posta Adresi: Akdeniz Üniversitesi Mühendislik Fakültesi Gıda Mühendisliği Fakültesi Dumlupınar Bulvarı Kampus 07508
Antalya

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-1806-7927

Publons / Web Of Science ResearcherID: D-9890-2012

ScopusID: 7003503028

Yoksis Araştırmacı ID: 11806

Eğitim Bilgileri

Doktora, University of Nebraska-Lincoln, Collage Of Agricultural Sciences And Natural Resources, Food Science And Technology, Amerika Birleşik Devletleri 1996 - 2000

Yüksek Lisans, University of Nebraska-Lincoln, Collage Of Agricultural Sciences And Natural Resources, Food Science And Technology, Amerika Birleşik Devletleri 1994 - 1996

Lisans, Atatürk Üniversitesi, Ziraat Fakültesi, Gıda Bilimi Ve Teknolojisi, Türkiye 1986 - 1990

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Studies on the Alcohol oxidase I (AOX1) promoter of Pichia pastoris, University of Nebraska-Lincoln, Collage Of Agricultural Sciences And Natural Resources, Food Science And Technology, 2000

Yüksek Lisans, Optimization of temperature-glycerol-pH conditions for a fed-batch fermentation process for recombinant hookworm (Ancylostoma caninum) anticoagulant peptide (ACAP-5) production by Pichia pastoris, University of Nebraska-Lincoln, Collage Of Agricultural Sciences And Natural Resources, Food Science And Technology, 1996

Araştırma Alanları

Yaşam Bilimleri, Biyoteknoloji, Biyoreaktör, Endüstriyel Biyoteknoloji, Mikrobiyal Biyoteknoloji, Moleküler Biyoloji ve Genetik, Genetik Mühendisliği, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Akdeniz Üniversitesi, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 2013 - Devam Ediyor

Doç. Dr., Akdeniz Üniversitesi, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 2010 - 2013

Yrd. Doç. Dr., University of Nebraska-Lincoln, Collage Of Engineering, Chemical And Biomolecular Engineering, 2002 - 2008

Öğretim Görevlisi Dr., University of Nebraska-Lincoln, Collage Of Engineering, Chemical And Biomolecular Engineering, 2000 - 2002

Araştırma Görevlisi, Atatürk Üniversitesi, Ziraat Fakültesi, Gıda Mühendisliği, 1990 - 2000

Akademik İdari Deneyim

Akdeniz Üniversitesi, Mühendislik Fakültesi, Gıda Mühendisliği, 2013 - 2019

Akdeniz Üniversitesi, Mühendislik Fakültesi/ Gıda Mühendisliği, Gıda Mühendisliği, 2013 - 2015

Verdiği Dersler

Biyokimya, Lisans, 2012 - 2013

Biyoloji, Lisans, 2013 - 2014

Gıda Mikrobiyolojisi I, Lisans, 2011 - 2012

Yönetilen Tezler

İNAN M., Rekombinant kimoziin üretiminde glikozilasyonun etkisinin araştırılması, Yüksek Lisans, F.Ersöz(Öğrenci), 2016

İNAN M., Pichia pastoris alkol dehidrogenaz (ADH3) promotörü üzerine çalışmalar, Doktora, F.Erden(Öğrenci), 2016

İNAN M., Pichia pastoris Etanol metabolizması üzerine çalışmalar, Doktora, M.Karaoğlan(Öğrenci), 2016

İNAN M., Pichia pastoris mayasında rekombinant Tibet öküzü kimoziin ekspresyonu ve karakterizasyonu, Yüksek Lisans, Ö.Adıgüzel(Öğrenci), 2016

İNAN M., Pichia pastoris mayası ile rekombinant ksilanaz enzim üretiminin optimizasyonu, Yüksek Lisans, H.YILDIZ(Öğrenci), 2013

İNAN M., Pichia pastoris MIG1 GENİNİN MOLEKÜLER VE FONKSİYONEL KARAKTERİZASYONU, Yüksek Lisans, S.Yılmaz(Öğrenci), 2012

İNAN M., Pichia pastoris ALKOL OKSİDAZ (AOX1 ve AOX2) GENLERİNİN İNAKTİF EDİLMESİ ve ELDE EDİLEN SUŞUN REKOMBİNANT PROTEİN ÜRETİMİNDE KULLANILMASI, Yüksek Lisans, M.Karaoğlan(Öğrenci), 2012

İNAN M., Pichia pastoris M1G1 geninin moleküler ve fonksiyonel karakterizasyonu, Yüksek Lisans, S.Yılmaz(Öğrenci), 2012

İNAN M., Identification and characterization of secretory pathway Ca² ATPase (PMR1) gene of Pichia pastoris and utilization of null mutant for recombinant protein expression, Yüksek Lisans, M.P.(Öğrenci), 2006

İNAN M., Enhancement of protein secretion in Pichia pastoris by overexpression of protein disulfide isomerase, Yüksek Lisans, D.Aryasomayajula(Öğrenci), 2004

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Process development for an effective COVID-19 vaccine candidate harboring recombinant SARS-CoV-2 delta plus receptor binding domain produced by Pichia pastoris**
Kalyoncu S., Yılmaz S., Kuyucu A. Z., Sayili D., Mert O., Soyuturk H., Gullu S., Akinturk H., Citak E., Arslan M., et al.
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- Deletion analysis of Pichia pastoris alcohol dehydrogenase 2 (ADH2) promoter and development of**

synthetic promoters

Erden-Karaođlan F., KARAOĐLAN M., Yılmaz G., Yılmaz S., İNAN M.

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- III. **Effect of Recombinant Transglutaminase on the Quality Characteristics of Cooked Beef Meatballs**
ERSÖZ F., AYKIN DİNÇER E., ÖZÇELİK A., İNAN M.
KAFKAS UNIVERSİTESİ VETERİNER FAKULTESİ DERGİSİ, cilt.27, sa.2, ss.209-215, 2021 (SCI-Expanded)
- IV. **Partial purification and characterization of a recombinant beta-mannanase from *Aspergillus fumigatus* expressed in *Aspergillus sojae* grown on carob extract**
Karahalil E., Germec M., KARAOĐLAN M., YATMAZ E., ÇOBAN H. B., İNAN M., TURHAN İ.
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- V. **Identification of major ADH genes in ethanol metabolism of *Pichia pastoris***
Karaođlan M., Erden-Karaođlan F., Yılmaz S., İNAN M.
YEAST, cilt.37, sa.2, ss.227-236, 2020 (SCI-Expanded)
- VI. **Cloning and expression of pullulanase from *Bacillus subtilis* BK07 and PY22 in *Pichia pastoris***
Erden-Karaođlan F., Karakas-Budak B., KARAOĐLAN M., İNAN M.
PROTEIN EXPRESSION AND PURIFICATION, cilt.162, ss.83-88, 2019 (SCI-Expanded)
- VII. **Extracellular production of the recombinant bacterial transglutaminase in *Pichia pastoris***
ÖZÇELİK A., ERSÖZ F., İNAN M.
PROTEIN EXPRESSION AND PURIFICATION, cilt.159, ss.83-90, 2019 (SCI-Expanded)
- VIII. **Large-scale production of yak (*Bos grunniens*) chymosin A in *Pichia pastoris***
ERSÖZ F., İNAN M.
PROTEIN EXPRESSION AND PURIFICATION, cilt.154, ss.126-133, 2019 (SCI-Expanded)
- IX. ***Pichia pastoris* Promoters**
ÖZÇELİK A., Yılmaz S., İNAN M.
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- X. **A quantitative polymerase chain reaction assay for the detection of equine (horse and donkey)-originated meat in processed bovine meat products**
ÖZÇELİK A., Yılmaz S., Gokbora S., İNAN M.
FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL, cilt.25, sa.1, ss.38-46, 2019 (SCI-Expanded)
- XI. **Comparison of ADH3 promoter with commonly used promoters for recombinant protein production in *Pichia pastoris***
Karaođlan M., Karaođlan F. E., İNAN M.
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- XII. **Functional analysis of alcohol dehydrogenase (ADH) genes in *Pichia pastoris***
Karaođlan M., Karaođlan F. E., İNAN M.
BIOTECHNOLOGY LETTERS, cilt.38, sa.3, ss.463-469, 2016 (SCI-Expanded)
- XIII. **Screening of signal sequences for extracellular production of *Aspergillus niger* xylanase in *Pichia pastoris***
Karaođlan M., Yildiz H., İNAN M.
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- XIV. **Isolation of *Pichia pastoris* PIR genes and their utilization for cell surface display and recombinant protein secretion**
Khasa Y. P., Conrad S., Şengül M., Plautz S., Meagher M. M., İNAN M.
YEAST, cilt.28, sa.3, ss.213-226, 2011 (SCI-Expanded)
- XV. **Purification of a recombinant heavy chain fragment C vaccine candidate against botulinum serotype C neurotoxin [rBoNTC(H-c)] expressed in *Pichia pastoris***
Dux M. P., Huang J., Barent R., Inan M., Swanson S. T., Sinha J., Ross J. T., Smith L. A., Smith T. J., Henderson I., et al.
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- XVI. **Fed-batch fermentation of GM-CSF-producing glycoengineered *Pichia pastoris* under controlled specific growth rate**
Jacobs P. P., Inan M., Festjens N., Hastraete J., Van Hecke A., Contreras R., Meagher M. M., Callewaert N.

- MICROBIAL CELL FACTORIES, cilt.9, 2010 (SCI-Expanded)
- XVII. **Expression and characterization of Bacillus subtilis PY22 alpha-amylase in Pichia pastoris**
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- XVIII. **Self-Assembled Nanoparticle Necklaces Network Showing Single-Electron Switching at Room Temperature and Biogating Current by Living Microorganisms**
Kane J., Inan M., Saraf R. F.
ACS NANO, cilt.4, sa.1, ss.317-323, 2010 (SCI-Expanded)
- XIX. **Cell bank characterization and fermentation optimization for production of recombinant heavy chain C-terminal fragment of botulinum neurotoxin serotype E (rBoNTE(H-c): Antigen E) by Pichia pastoris**
Sinha J., Inan M., Fanders S., Taoka S., Gouthro M., Swanson T., Barent R., Barthuli A., Loveless B. M., Smith L. A., et al.
JOURNAL OF BIOTECHNOLOGY, cilt.127, sa.3, ss.462-474, 2007 (SCI-Expanded)
- XX. **Identification and characterization of calcium and manganese transporting ATPase (PMR1) gene of Pichia pastoris**
Dux M. P., Inan M.
YEAST, cilt.23, sa.8, ss.613-621, 2006 (SCI-Expanded)
- XXI. **Enhancement of protein secretion in Pichia pastoris by overexpression of protein disulfide isomerase**
Inan M., ARYASOMAYAJULA D., Sinha J., Meagher M.
BIOTECHNOLOGY AND BIOENGINEERING, cilt.93, sa.4, ss.771-778, 2006 (SCI-Expanded)
- XXII. **Purification and scale-up of a recombinant heavy chain fragment C of botulinum neurotoxin serotype E in Pichia pastoris GS115**
Dux M., Barent R., Sinha J., GOUTHRO M., Swanson T., Barthuli A., Inan M., Ross J., Smith L., Smith T., et al.
PROTEIN EXPRESSION AND PURIFICATION, cilt.45, sa.2, ss.359-367, 2006 (SCI-Expanded)
- XXIII. **Maximization of production of secreted recombinant proteins in Pichia pastoris fed-batch fermentation**
Zhang W., Sinha J., Smith L., Inan M., Meagher M.
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- XXIV. **Causes of proteolytic degradation of secreted recombinant proteins produced in methylotrophic yeast Pichia pastoris: Case study with recombinant ovine interferon-tau**
Sinha J., PLANTZ B., Inan M., Meagher M.
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- XXV. **Optimization of cell density and dilution rate in Pichia pastoris continuous fermentations for production of recombinant proteins**
Zhang W., Liu C., Inan M., Meagher M.
JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY, cilt.31, sa.7, ss.330-334, 2004 (SCI-Expanded)
- XXVI. **Progress in the development of a recombinant vaccine for human hookworm disease: The Human Hookworm Vaccine Initiative**
HOTEZ P., Zhan B., Bethony J., LOUKAS A., Williamson A., Goud G., Hawdon J., Dobardzic A., Dobardzic R., Ghosh K., et al.
INTERNATIONAL JOURNAL FOR PARASITOLOGY, cilt.33, sa.11, ss.1245-1258, 2003 (SCI-Expanded)
- XXVII. **Non-repressing carbon sources for alcohol oxidase (AOX1) promoter of Pichia pastoris**
Inan M., Meagher M.
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, cilt.92, sa.6, ss.585-589, 2001 (SCI-Expanded)
- XXVIII. **The effect of ethanol and acetate on protein expression in Pichia pastoris**
Inan M., Meagher M.
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- XXIX. **Optimization of temperature-glycerol-pH conditions for a fed-batch fermentation process for recombinant hookworm (Ancylostoma caninum) anticoagulant peptide (AcAP-5) production by Pichia pastoris**

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ENZYME AND MICROBIAL TECHNOLOGY, cilt.24, sa.7, ss.438-445, 1999 (SCI-Expanded)

XXX. **A gastroschisis-like abdominal wall defect in the left hypochondrium. Case report and literature review**

MELIKOGLU M., KARAGUZEL G., OGUS M., Aslan A., İNAN M.

EUROPEAN JOURNAL OF PEDIATRIC SURGERY, cilt.8, sa.1, ss.52-54, 1998 (SCI-Expanded)

XXXI. **Acute physiopathological and histopathological effects of fetal distress on the fetal stomach: An experimental study**

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AMERICAN JOURNAL OF PERINATOLOGY, cilt.14, sa.8, ss.503-507, 1997 (SCI-Expanded)

XXXII. **A case of thoraco-omphalo-ischiopagus bipus conjoined twins**

MELIKOGLU M., Aslan A., METE A., OZKAYNAK C., İNAN M., KARAVELI S.

JOURNAL OF PEDIATRIC SURGERY, cilt.32, sa.4, ss.656-658, 1997 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. **PARTIAL PURIFICATION AND CHARACTERIZATION OF AN EXTRACELLULAR METALLOPEPTIDASE PRODUCED BY *Bacillus amyloliquefaciens* FE-K1**

Erem F., İnan M., Karakaş Budak B., Certel M.

TRAKYA UNIVERSITY JOURNAL OF NATURAL SCIENCES, cilt.21, sa.1, ss.47-61, 2020 (Hakemli Dergi)

II. **İnsan İnsülin Hormonu Öncülerinin *Pichia pastoris* AOX1 Promotoru Altında Klonlanması, Ekspresyonu ve Biyoreaktörde Üretimi**

TÜRKANOĞLU ÖZÇELİK A., Torun A., Yılmaz S., İNAN M.

SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, cilt.22, sa.3, ss.1190-1196, 2018 (Hakemli Dergi)

III. **Fermentation strategies for recombinant protein expression in the methylotrophic yeast *Pichia pastoris*.**

Zhang W., İNAN M., Meagher M.

Biotechnol.Bioproc., sa.5, ss.275-287, 2000 (Hakemli Dergi)

Kitap & Kitap Bölümleri

I. ***Pichia pastoris* promoters**

TÜRKANOĞLU ÖZÇELİK A., Yılmaz S., İNAN M.

Recombinant protein production in yeast. Methods in Molecular Biology, Vol 1923, Gasser B., Mattanovich D., Editör, Humana Press, Inc. , New York, ss.97-112, 2019

II. ***Pichia pastoris* promoters**

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Recombinant protein production in yeast. Methods in Molecular Biology, Vol 1923, Gasser B., Mattanovich D., Editör, Humana Press, Inc. , New York, ss.97-112, 2019

III. **Mikrobiyal hücre yapısı ve fonksiyonu**

İNAN M., Yılmaz S., Karaoğlan M., Erden F.

Endüstriyel Mikrobiyolojiye Giriş, İrfan Turhan, Editör, Palme Yayın Dağıtım, Ankara, ss.7-20, 2015

IV. **Mikrobiyal gelişim ve beslenme**

İNAN M., Karaoğlan M., Erden F., Yılmaz S.

Endüstriyel Mikrobiyolojiye Giriş, İrfan Turhan, Editör, Palme Yayın Dağıtım, Ankara, ss.21-45, 2015

V. **Mikrobiyal Metabolizma**

İNAN M., Erden F., Yılmaz S., Kara M.

Endüstriyel Mikrobiyolojiye Giriş, İrfan Turhan, Editör, Palme Yayın Dağıtım, Ankara, ss.46-71, 2015

- VI. **Saturation of the Secretory Pathway by Overexpression of a Hookworm (*Necator americanus*) Protein (Na-ASP1)**
İNAN M., Meagher M.
Pichia Protocols 2nd Edition, Cregg, J., Editör, Humana Press, Toptowa, Nj, ss.65-75, 2007
- VII. **Rational Design and Optimization for Pichia pastoris Fed-Batch and Continuous Fermentation**
Zhang W., İNAN M., Meagher M.
Pichia Protocols 2nd Edition, Cregg, J., Editör, Humana Press, Toptowa, Nj, ss.43-63, 2007
- VIII. **Purification of the N-Terminal and C-Terminal Fragments of Recombinant Heavy Chain Fragment C of Botulinum Neurotoxin Serotype C**
Huang J., Barent R., İNAN M., GOUTHRO M., Smith L., Meagher M.
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Screening of Signal Sequences for Extracellular Production of A. niger Xylanase in Pichia pastoris**
Yıldız H., Karaoğlan M., İNAN M.
VI. International Bioengineering Congress "Human Welfare", Aydın, Türkiye, ss.12
- II. **Characterization of methanol expression regulatory protein (Mxr2) of Pichia pastoris**
İNAN M., Karaoğlan M.
26th International Conference on Yeast Genetics and Molecular Biology, Almanya, cilt.30, sa.1
- III. **Functional Characterization of ADH genes from Pichia pastoris.**
Karaoğlan M., Erden F., İNAN M.
VI. International Bioengineering Congress "Human Welfare", Aydın, Türkiye, ss.13
- IV. **Purification of AOX1 promoter-binding proteins from Pichia pastoris.**
İNAN M., Karaoğlan M.
Pichia 2012 Congress, Avusturya, ss.24
- V. **Development of Alcohol Oxidase (AOX) Defective Strains of Pichia pastoris for Recombinant Protein Production**
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VI. International Bioengineering Congress "Human Welfare", Aydın, Türkiye, ss.15
- VI. **Optimizasyon of diploid Pichia pastoris strains for the expression of full-length monoclonal antibodies**
Mitchell D., McNeil P., Ojala E., Sprague K., Janson N., Marzolf S., İNAN M., Allison D., Latham J.
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- VII. **Tibet sığırı kimozin enziminin Pichia pastoris mayasında hücre dışında rekombinant üretimi**
ERSÖZ F., İNAN M.
20. Uluslararası Katılımlı Ulusal Biyoteknoloji Kongresi, Ankara, Türkiye, 10 - 12 Ekim 2019, cilt.1, sa.1, ss.50
- VIII. **Rekombinant Kimozin Enzimi Kullanılarak Üretilen Beyaz Peynirlerin Fizikokimyasal Özellikleri**
ERSÖZ F., ERGİN F., ERKAYMAZ T., İNAN M., KÜÇÜKÇETİN A.
20. Uluslararası Katılımlı Ulusal Biyoteknoloji Kongresi, Ankara, Türkiye, 10 - 12 Ekim 2019, ss.61
- IX. **Large scale production of recombinant microbial transglutaminase in Pichia pastoris**
ERSÖZ F., TÜRKAN OĞLU ÖZÇELİK A., İNAN M.
International Agricultural, Biological and Life Sciences Conference, Edirne, Türkiye, 2 - 05 Eylül 2018, ss.570
- X. **Effect of pH and temperature on extracellular production of recombinant microbial transglutaminase in Pichia pastoris**
ÖZÇELİK A., ERSÖZ F., İNAN M.
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- XI. **Large scale production of recombinant microbial transglutaminase in Pichia pastoris**
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- XII. **Effect of pH and temperature on extracellular production of recombinant microbial transglutaminase in *Pichia pastoris***
TÜRKANOĞLU ÖZÇELİK A., ERSÖZ F., İNAN M.
International Agricultural, Biological and Life Science Conference, Edirne, Türkiye, 2 - 05 Eylül 2018, ss.528
- XIII. **Effect of pH and temperature on extracellular production of recombinant microbial transglutaminase in *Pichia pastoris***
ÖZÇELİK A., ERSÖZ F., İNAN M.
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- XIV. **Development of a multiplex real-time quantitative PCR assay (Q-PCR) for detection of equine meat in processed meat products**
Gökbora S., Yılmaz S., TÜRKANOĞLU ÖZÇELİK A., İNAN M.
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- XV. **Large scale production of recombinant microbial transglutaminase in *Pichia pastoris***
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- XVI. **Molecular cloning of *Streptomyces mobaraensis* pro-transglutaminase gene in yeast**
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- XVII. **Molecular cloning of *Streptomyces mobaraensis* pro-transglutaminase gene in yeast**
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- XX. **Cloning and expression of recombinant human insulin precursor in yeast**
ÖZÇELİK A., Yılmaz S., İNAN M.
2. International Conference on Advances in Natural and Applied Sciences, Antalya, Türkiye, 18 - 21 Nisan 2017, ss.319
- XXI. **Rekombinant Tibet Öküzü *Bos grunniens* Kimozin Üretimine Glikozilasyonun Etkisi**
CANLI F., İNAN M.
5. Ulusal Moleküler Biyoloji Ve Biyoteknoloji Kongresi, Türkiye, 18 - 21 Temmuz 2016, ss.24
- XXII. ***Pichia Pastoris*'te Rekombinant İnsan İnsülin Hormonu Öncüleri Üretimi**
ÖZÇELİK A., Torun A., Yılmaz S., İNAN M.
5. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Konya, Türkiye, 18 - 21 Temmuz 2016, ss.7
- XXIII. **Rekombinant Tibet Öküzü (*Bos grunniens*) Kimozin Üretimine Glikozilasyonun Etkisi**
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- XXIV. **Rekombinant Production and Characterization of yak Chymosin in *Pichia Pastoris***
ADIGÜZEL Ö., CANLI F., İNAN M.
Pichia 2016 Conference, 3 - 06 Nisan 2016, ss.77
- XXV. **Metabolic Engineering of *Pichia pastoris* for Lactic Acid Production**
Ayas F., Karaoğlan M., İNAN M.
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