

Asst. Prof. DİLEK ÇAM DERİN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: JIK-1576-2023

Yoksis Researcher ID: 170850

Biography

Nanobiyoteknoloji, Nanotoksikoloji, rekombinant antikor ve antikor, aptamer, nükleik asit temelli immunostrip lateral flow testler ile ilgileniyorum.

Education Information

Doctorate, Middle East Technical University, Fen Bilimlerii Enstitüsü, Biyolojik Bilimler Bölümü, Turkey 2009 - 2016

Postgraduate, Gazi University, Fen Bilimlerii Enstitüsü, Biyoloji Bölümü, Turkey 2007 - 2009

Undergraduate, Gazi University, Gazi Eğitim Fakültesi, Biyoloji Eğitimi Anabilim Dalı, Turkey 2002 - 2007

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Health&Medicine, III. Teorik ve Uygulamalı Doku Mühendisliği Kursu, Hacettepe Üniversitesi, 2018

Education Management and Planning, Mühendislik ve Fen Bilimlerine Yönelik Üniversite Sanayi İşbirliği Proje Hazırlama Eğitimi, TÜBİTAK, 2017

Health&Medicine, XXI. Deney Hayvanları Uygulama ve Etik Kursu, Gazi Üniversitesi, 2017

Health&Medicine, Antikor günleri (11. Terapötik Peptidler ve Antikorlar: Dizayn ve Üretim Çalıştayı, Ankara Üniversitesi, 2015

Security, Biyolojik Tehdit Tespit ve Teşhis Teknolojileri: Sağlık, Çevre ve KBRN Uygulamaları, ODTÜ, 2012

Education Management and Planning, 15th European Congress on Biotechnology (bio-crossroads), Biyoteknoloji Derneği/İstanbul, 2012

Education Management and Planning, VIII. Nanoscience and Nanotechnology Congress (NANO-TR8), Ankara/Türkiye, 25-29 Haziran 2012, Hacettepe Üniversitesi, 2012

Education Management and Planning, Potsdam Days on Bioanalysis 2011, Potsdam, 2011

Education Management and Planning, Ankara 1. Alman-Türk Nanobiyo ve Biyoalgılama Teknolojileri Çalıştayı, ODTÜ, 2011

Education Management and Planning, 6th Nanoscience and Nanotechnology Conference,, Çeşme/İzmir, 2010

Education Management and Planning, Nanomats: International Conference on Nanomaterials and Nanosystems, İstanbul

Teknik Üniversitesi, 2009

Health&Medicine, Joint Oncology Symposium, Yeditepe Üniversitesi, 2009

Education Management and Planning, Gazi Üniversitesi 3. Geleneksel Fen ve Matematik Alanları sergisi, Gazi Üniversitesi, 2007

Education Management and Planning, IV. Ulusal Moleküler Biyoloji ve Genetik Öğrenci Kış Okulu, İstanbul Üniversitesi, 2007

Education Management and Planning, VII. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Gazi Üniversitesi, 2006

Education Management and Planning, Gazi Üniversitesi 80.Yıl Etkinlikleri Biyoloji Sergisi, Gazi Üniversitesi, 2006

Education Management and Planning, DNA Markörleri Ve Bitki Islahında Kullanım Kursu, Çukurova Üniversitesi, 2006

Education Management and Planning, Gıda Güvenirliğinin Biyolojik Çeşitliliğimiz Açısından Öneminin Araştırılması, Veteriner Hekimler Odası, ORGÜDER, Türkiye Diyetisyenler Derneği ve Buğday Derneği, 2005

Dissertations

Doctorate, Gıda Patojenleri İçin İmmünoafinite Temelli Teşhis Platformlarının Geliştirilmesi, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyolojik Bilimler Bölümü, 2016

Postgraduate, Modifiye Edilmiş Gümüş Nanoparçacıkların Hücresel Alımları ve Sitotoksitesi, Gazi University, Fen Bilimleri Enstitüsü, Biyoloji Bölümü, 2009

Research Areas

Life Sciences, Biotechnology, Biosensor, Molecular Biology and Genetics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji ve Genetik, 2020 - Continues

Research Assistant PhD, Cankiri Karatekin University, Faculty Of Science, Department Of Biology, 2016 - 2020

Research Assistant, Middle East Technical University, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 2009 - 2016

Research Assistant, Kahramanmaraş Sutcu Imam University, Fen Edebiyat Fakültesi, Biyoloji Bölümü, 2008 - 2009

Courses

Biotechnology, Undergraduate, 2021-2022

Physiology, Undergraduate, 2021-2022

Hayvan Fizyolojisi, Undergraduate, 2020-2021

Cell bio Lab II, Undergraduate, 2020-2021

Introduction to Nanobiotechnology, Undergraduate, 2020-2021

Recombinant DNA Technology, Undergraduate Double Major, 2020-2021

Genel Biology Lab II, Undergraduate, 2020-2021

Cell bio Lab I, Undergraduate, 2020-2021

Genel Biyoloji Lab I, Undergraduate, 2019-2020

Biyokimya I, Undergraduate, 2019-2020

Biyokimya 2 lab, Undergraduate, 2018-2019

Genel Biyoloji 2 lab, Undergraduate, 2018-2019

Nanobiyoteknolojiye Giriş, Undergraduate, 2018-2019

BİY151 Genel Biyoloji I lab, Undergraduate, 2018-2019

Biyosensörler, Undergraduate, 2018-2019

Tohumuz Bitkiler Lab, Undergraduate, 2017-2018

Biyokimya 2 lab, Undergraduate, 2017-2018
Genel Biyoloji I Lab, Undergraduate, 2017-2018
Genel Biyoloji 2 lab, Undergraduate, 2017-2018
Biyokimya 2 Lab, Undergraduate, 2016-2017
Genel Biyoloji 1 Lab, Undergraduate, 2016-2017
Bitki Histolojisi ve Morfolojisi Lab, Undergraduate, 2016-2017
Experiments in Animal Physiology, Undergraduate Double Major, 2015-2016
Experiments in Animal Physiology, Undergraduate, 2015-2016
Molecular Biology Laboratory, Undergraduate, 2015-2016
Experiments in Animal Physiology, Undergraduate, 2014-2015
Experiments in Animal Physiology, Undergraduate Double Major, 2014-2015
Molecular Biology Laboratory, Undergraduate, 2013-2014
Molecular Biology Laboratory, Undergraduate, 2012-2013
Experiments in Animal Physiology, Undergraduate Double Major, 2012-2013
Experiments in Animal Physiology, Undergraduate, 2012-2013
Experiments in Animal Physiology, Undergraduate, 2011-2012
Molecular Biology Laboratory, Undergraduate, 2011-2012
Experiments in Animal Physiology, Undergraduate Double Major, 2011-2012
Experiments in Animal Physiology, Undergraduate, 2010-2011
Molecular Biology Laboratory, Undergraduate, 2010-2011
Experiments in Animal Physiology, Undergraduate Double Major, 2010-2011

Jury Memberships

Post Graduate, Post Graduate, Karamanoğlu Mehmetbey Üniversitesi, June, 2021
Post Graduate, Post Graduate, Karamanoğlu Mehmetbey Üniversitesi, June, 2021
Doctoral Examination, Doctoral Examination, Karamanoğlu Mehmetbey Üniversitesi, December, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Designing of rapid assay for the detection of RdRp/Orf1ab specific to SARS-CoV-2.**
Derin D., Gültekin E., Taşkın I., Otlu B., Öktem H. A.
Journal of virological methods, vol.320, pp.114774, 2023 (SCI-Expanded)
- II. **Expression of sirtuin 2 and 7 in placenta accreta spectrum.**
Taskin I., Gurbuz S., Icen M. S., Derin D., Findik F. M.
Revista da Associacao Medica Brasileira (1992), vol.69, no.8, 2023 (SCI-Expanded)
- III. **Development of nucleic acid based lateral flow assays for SARS-CoV-2 detection.**
Çam Derin D., Gültekin E., İçen Taşkın I., Yakupoğulları Y.
Journal of bioscience and bioengineering, vol.135, no.2, pp.87-92, 2023 (SCI-Expanded)
- IV. **Usage of natural chitosan membrane obtained from insect corneal lenses as a drug carrier and its potential for point of care tests**
İlk S., Ramanauskaitė A., Koç Bilican B., Mulerčíkas P., Çam Derin D., Onses M. S., Torun I., Kazlauskaitė S., Baublys V., Aydın Ö., et al.
Materials Science & Engineering C, vol.112, pp.1-11, 2020 (SCI-Expanded)
- V. **Development of rapid dipstick assay for food pathogens, Salmonella, by optimized parameters**
Çam D., ÖKTEM H. A.
Journal of Food Science and Technology, vol.56, no.1, pp.140-148, 2019 (SCI-Expanded)
- VI. **Optimizations needed for lateral flow assay for rapid detection of pathogenic E. coli**
Cam D., ÖKTEM H. A.

- TURKISH JOURNAL OF BIOLOGY, vol.41, no.6, pp.954-968, 2017 (SCI-Expanded)
- VII. **Small molecule detection by lateral flow strips via aptamer-gated silica nanopores**
Ozalp V. C., Cam D., HERNANDEZ F. J., HERNANDEZ L. I., SCHAFER T., ÖKTEM H. A.
ANALYST, vol.141, no.8, pp.2595-2599, 2016 (SCI-Expanded)
- VIII. **Rapid identification of bacteria and yeast using surface-enhanced Raman scattering**
Culha M., Kahraman M., Cam D., Sayin I., Keseroglu K.
SURFACE AND INTERFACE ANALYSIS, vol.42, pp.462-465, 2010 (SCI-Expanded)
- IX. **Multiplex identification of bacteria in bacterial mixtures with surface-enhanced raman scattering**
Cam D., Keseroglu K., Kahraman M., Sahin F., Culha M.
Journal of Raman Spectroscopy, vol.41, no.5, pp.484-489, 2010 (SCI-Expanded)
- X. **Interaction of multi-functional silver nanoparticles with living cells**
Sur I., Cam D., Kahraman M., Baysal A., Culha M.
NANOTECHNOLOGY, vol.21, no.17, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **INTERACTION OF GOLD NANOPARTICLES WITH LIVING CELLS**
ÇAM D., SUR I., SAYIN I., KESEROGLU K., CULHA M., Sezgin E., Karataş Ö. F., Avcı E., Sülek S.
Journal of Engineering and Natural Sciences, vol.26, pp.227-246, 2008 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Lateral flow assay for Salmonella detection and potential reage**
ÇAM D.
in: New Insight into Brucella Infection and Foodborne Diseases, Ranjbar M., Nojomi M., Mascellino M.T., Editor,
Intechopen, Londra, pp.1-13, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Combined Delivery of P53 Activating and KRAS Inhibitory Small RNA Significantly Inhibited Cell Proliferation and Motility In Human Lung Cancer Cell**
Dündar M., Menevşe İ. N., Çam Derin D., Gültekin E., Koç A.
9th International Congress of Molecular Biology Association of Turkey, İzmir, Turkey, 14 September 2024, pp.83
- II. **USAGE OF THE scFv ANTIBODY AND COV2-6C3 APTAMER AS A DIAGNOSTIC TOOL FOR VIRAL DETECTION**
Çam Derin D.
18th International Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 26 - 28 August 2024, pp.5
- III. **The Advantages of The Aptamer Usage in Lateral Flow Assays For Viral Detection**
Gündüz E., Çam Derin D.
5th Eurasia Biochemical Approaches & Technologies (EBAT), Antalya, Turkey, 2 - 05 November 2023, pp.2
- IV. **Dot Blot Assay for Rapid Detection of SARS-CoV-2**
Çam Derin D., Tatlıcı E., Özşahin O., Gültekin E.
5th Eurasia Biochemical Approaches & Technologies (EBAT), Antalya, Turkey, 2 - 05 November 2023, pp.1
- V. **Nucleic Acid Based SARS CoV-2 Detection by Lateral Flow Test**
Gültekin E., Çam Derin D., İçen Taşkın I.
4. EBAT, Antalya, Turkey, 3 - 06 November 2022, pp.16-17
- VI. **Detection of 2019-nCoV2 of SARS CoV2 by Lateral Flow Assay**
Çam Derin D., Gültekin E., İçen Taşkın I., Otlu B.

4. EBAT, Antalya, Turkey, 3 - 06 November 2022, pp.15-16
- VII. **The Use of PCL/PEG-Based Electrospun Membranes in Lateral Flow Systems to Increase the Sensitivity in Analysis of Biological Samples**
Ateş B., Ulu A., Kolak S., Çam Derin D., Doğan D., Parlakpınar H.
4.EBAT, Antalya, Turkey, 3 - 06 November 2022, pp.18-19
- VIII. **Alternative method for molecular Detection of SARS-CoV-2 by Lateral Flow Assay**
Çam D., Gültekin E.
10th International Molecular Biology and Biotechnology Congress, Adana, Turkey, 4 - 08 October 2021, pp.69
- IX. **Aptamer usage for lateral flow assay**
ÇAM D., ÖKTEM H. A.
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 March 2020
- X. **Potential Reagents Used in Lateral Flow Assay for Nano Based Sensing**
ÇAM D., ÖZALP V. C., ÖKTEM H. A.
BIT's 8th Annual World Congress of Nano Science Technology-2018 (Nano ST-2018), Potsdam, Germany, 24 - 26 October 2018
- XI. **scFv antibody development for rapid detection platforms of food pathogens**
ÇAM D., Gollihar J. D., Ellington A. D.
7th Annual World Congress of Nano Science and Technology-2017 (Nano S T-2017), Fukuoka, Japan, 24 - 26 October 2017
- XII. **Development of Lateral Flow Test Platform for rapid and sensitive detection of food pathogens**
ÇAM D., ÖKTEM H. A.
18. Ulusal Biyoteknoloji Kongresi, Turkey, 18 - 19 December 2015
- XIII. **Rapidly and sensitively detection of pathogenic E coli O157 H7 by developed lateral flow strip based on gold nanoparticles**
ÇAM D., ÖKTEM H. A.
NanoTR-11, Turkey, 22 - 25 June 2015
- XIV. **Development of Gold Nanoparticle Based Lateral Flow Test Platform for Rapid Detection of Food Pathogens**
ÇAM D., ÖKTEM H. A.
3rd International Conference and Exhibition on Biosensors & Bioelectronics, 11 - 13 August 2014
- XV. **A Novel DNA Sandwich Hybridization Based Detection Platform for Telomerase Activity**
ÇAM D., ÖKTEM H. A.
NanoTR-9, Turkey, 24 - 28 June 2013
- XVI. **Fast Identification of Bacteria and Yeast Using Surface Enhanced Raman Scattering**
ÇULHA M., KAHRAMAN M., ÇAM D., Sayın İ., Keseroğlu K.
13th European Conference on Applications of Surface and Interface Analysis, 18 - 23 October 2009
- XVII. **Engineering of gold and Silver nanoparticles into bacterial cell wall**
ÇULHA M., Fakhrullin R., Zamaleeva A., KAHRAMAN M., Gelen D., ÇAM D., ŞAHİN F., Yüksel M.
Nanotech Europe, 28 - 30 September 2009
- XVIII. **Differential Targeting Cancer Cells with Modified Silver Nanoparticles**
Sur İ., ÇAM D., KAHRAMAN M., ÇULHA M.
5. Nanobilim ve Nanoteknoloji Konferansı, Turkey, 8 - 12 June 2009
- XIX. **Identification of Bacterial Mixtures Based on SERS**
ÇAM D., Keseroğlu K., KAHRAMAN M., ŞAHİN F., ÇULHA M.
5. Nanobilim ve Nanoteknoloji Konferansı, Turkey, 8 - 12 June 2009
- XX. **Multiplex Identification of Bacteria Using Surface Enhanced Raman Scattering**
ÇULHA M., KAHRAMAN M., ÇAM D., Gelen D., Yüksel M., Fakhrullin R., ŞAHİN F.
Pittcon 2009, 9 - 12 March 2009
- XXI. **Propagation of *Urginea maritima* L BAKER ada soğanı with way of plant tissue culture**
ÖZDEMİR DEĞİRMENCİ F., ÇAM D., ATEŞ M. A., ÖZEL Ç. A., Khawar K.

19. Ulusal Biyoloji Kongresi, Turkey, 23 - 27 June 2008
- XXII. **Temporary immersion system for micropropagation of *Gentiana scabra***
Sur İ., Mengü D. S., Lieberei R., ÇAM D., Arslan O., Khawar K.
4. Ulusal Nanobilim ve Nanoteknoloji Konferansı (NanoTr4), Turkey, 9 - 13 June 2008
- XXIII. **Rapid and Highly efficient micropropagation of Two Turkish woads *Isatis constricta* Davis and *I aucheri* Boiss under in vitro conditions**
Khawar K., ÖZEL Ç. A., uluğ A., Sur İ., Kızılateş E., Hadımoğulları B., Özlü G., ÇAM D., Arslan O.
International Symposium on Biotechnology, 4 - 08 May 2008
- XXIV. **In vitro behaviour putting out roots of *Ornithogalum ulophyllum* Hand Mazz**
Khawar K., ÖZEL Ç. A., ATEŞ M. A., ÇAM D., ÖZDEMİR DEĞİRMENCİ F.
15. Biyoteknoloji Kongresi, Turkey, 28 - 31 October 2007
- XXV. **Factors affecting in vitro plant regeneration of Iranian knapweed *Centaurea depressa* Bieb using immature zygotic embryos**
Khawar K., ÖZEL Ç. A., Yıldırım S., ÖZDEMİR DEĞİRMENCİ F., ÇAM D., Uzuntaş F., Arslan O., ÖZCAN S.
Fifth International Scientific Conference "Propagation of Ornamental Plants, 5 - 08 September 2007
- XXVI. **Endemik *Muscari massayanum* un in vitro çoğaltımı**
ÇAM D., Doğan A., Arslan O., Khawar K., ÖZEL Ç. A.
14. Ulusal Biyoloji Öğrenci Kongresi, Turkey, 3 - 05 September 2007
- XXVII. **Efficient in vitro micropropagation of *Ornithogalum oligophyllum* E D clarke**
ÖZEL Ç. A., Sur İ., ATEŞ M. A., ÖZDEMİR DEĞİRMENCİ F., ÇAM D., Khawar K., Arslan O.
Botanical Congress, 3 - 07 September 2007
- XXVIII. **Yabani mercimek *Lens Culinaris Orientalis* te somatik embriyogenesis**
ÇAM D., ÖZDEMİR DEĞİRMENCİ F., ÖZEL Ç. A., Khawar K., Arslan O.
13. Ulusal Biyoloji Öğrenci Kongresi, Turkey, 20 - 23 September 2006
- XXIX. ***Muscari macrocarpum* un in vitro üretimi**
ÖZEL Ç. A., Khawar K., Keskin N., ÖZDEMİR DEĞİRMENCİ F., ATEŞ M. A., ÇAM D., Arslan O., ÖZCAN S., ÜNAL F.
18. Ulusal Biyoloji Kongresi, Turkey, 26 June - 30 May 2006

Supported Projects

- Dündar M., Otlu B., İcen Taşkın I., Çam Derin D., TÜBİTAK Project, SARS CoV-2 (Covid 19)'ye özgü hızlı tanı strip test platformlarının geliştirilmesi, 2021 - 2024
- ATEŞ B., PARLAKPINAR H., ULU A., ÇAM D., DOĞAN D., KOLAK S., Project Supported by Higher Education Institutions, Glikozillenmiş Proteinlerin (Hemoglobin A1c) Hızlı Tayinine Yönelik Yatay Analiz Test Platformlarının Geliştirilmesi, 2021 - 2023
- ÇAM DERİN D., İÇEN TAŞKIN I., YAKUPOĞULLARI Y., Project Supported by Higher Education Institutions, Moleküler tabanlı COVID-19 hızlı tanı strip test geliştirilmesi, 2020 - 2022
- PARLAKPINAR H., GÜNATA M., ÖZHAN O., ULU A., ATEŞ B., ÇAM D., Project Supported by Higher Education Institutions, COVID-19 TANI VE TAKİBİNDE PROTOTİP YERLİ LATERAL HIZLI TANI KİTİ GELİŞTİRİLMESİ, 2020 - 2022
- ÇAM DERİN D., GÜLTEKİN E., Project Supported by Higher Education Institutions, Nükleik Asit Temelli Yanal Akış Testi LFT ile COVID-19 Tespiti, 2021 - 2021

Activities in Scientific Journals

- COLLOIDS AND SURFACES B-BIOINTERFACES, Assistant Editor/Section Editor, 2020 - Continues
- JOURNAL OF APPLIED MICROBIOLOGY, Assistant Editor/Section Editor, 2019 - Continues
- Cell & Cellular Life Sciences Journal (CCLSJ), Editor, 2017 - Continues

Memberships / Tasks in Scientific Organizations

Biyoteknoloji Derneđi, Member, 2016 - Continues
Biyoteknoloji Derneđi, Board Member, 2013 - 2016

Metrics

Publication: 42
Citation (WoS): 191
Citation (Scopus): 196
H-Index (WoS): 4
H-Index (Scopus): 4

Congress and Symposium Activities

10th International Molecular Biology and Biotechnology Congress, Session Moderator, Adana, Turkey, 2021
10th International Molecular Biology and Biotechnology Congress, Attendee, Adana, Turkey, 2021
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Attendee, Ankara, Turkey, 2020
8th Annual World Congress of Nano Science and Technology-2018, Attendee, Berlin, Germany, 2018
7th Annual World Congress of Nano Science and Technology-2017, Attendee, Fukuoka, Japan, 2017
18. Ulusal Biyoteknoloji Kongresi, Attendee, Konya, Turkey, 2015
NanoTR-11 (11. Nanobilim ve Nanoteknoloji Kongresi, Attendee, Ankara, Turkey, 2015
3rd International Conference and Exhibition on Biosensors & Bioelectronics,, Attendee, Texas, United States Of America, 2014
13th European Conference on Applications of Surface and Interface Analysis, Attendee, Antalya, Turkey, 2009
Europe's Largest Annual Nanotechnology Conference and Exhibition, Attendee, Berlin, Germany, 2009
5. Nanobilim ve Nanoteknoloji Konferansı, Attendee, Eskişehir, Turkey, 2009
5. Nanobilim ve Nanoteknoloji Konferansı, Attendee, Eskişehir, Turkey, 2009
19. Ulusal Biyoloji Kongresi, Attendee, Trabzon, Turkey, 2008
4. Ulusal Nanobilim ve Nanoteknoloji Konferansı (NanoTr4), Attendee, İstanbul, Turkey, 2008
International Symposium on Biotechnology, Attendee, Sfax, Tunisia, 2008
15. Ulusal Biyoteknoloji Kongresi, Attendee, Antalya, Turkey, 2007
Botanical Congress, University of Hamburg, Attendee, Hamburg, Germany, 2007
Propagation of Ornamental Plants, Attendee, Sofija, Bulgaria, 2007
13. Ulusal Biyoloji Öğrenci Kongresi, Attendee, İzmir, Turkey, 2006
18. Ulusal Biyoloji Kongresi, Attendee, Aydın, Turkey, 2006

Scholarships

TÜBİTAK 2214 YURT DIŐI ARAŐTIRMA BURS PROGRAMI, TUBITAK, 2014 - Continues
2211 - Yurt İçi Lisansüstü Burs Programı, TUBITAK, 2010 - Continues
Gazi Üniversitesi Başarı Bursu, University, 2007 - Continues

Awards

ÇAM D., Development of Gold Nanoparticle Based Lateral Flow Test Platform for Rapid Detection of Food Pathogens,
3rd International Conference and Exhibition on Biosensors & Bioelectronics, August 2014

Non Academic Experience

University of Saida Dr. Molay Tahir

Universidad de Coruna

State Agency, The University of Texas at Austin, Synthetic Biology

The University of Texas at Austin

Other Public Institution, Yeditepe University