

CURRICULUM VITAE

Personal Details



Name	: Isil (Aksan) Kurnaz
Date of Birth	: 18 May 1974
Place of Birth	: Istanbul, Turkey
Languages	: English (fluent)

Present Address : Dept. Molecular Biology and Genetics
Gebze Technical University (GTU), Kocaeli

Academic Background

Oct 2014 +	Professor in Dept. Mol Biol Genet, GTU
Sept 2011 -2014	Professor in Dept. of Genetics and Bioengineering, YU
May 2006 – Sept 2011	Associate Professor in Dept. of Genetics and Bioeng., YU
October 2003 – May 2006	Assistant Professor in Dept. of Genetics and Bioeng., YU
February 2003 – October 2003	Yeditepe University, Faculty of Pharmacy. Asst. Prof. (set-up of Biomaterials, Genetics and Tissue Culture Laboratories; set-up of Department of Genetics and Bioengineering)

Part-Time :

Sept 2014 – December 2014	Boğaziçi University, Inst. Biomedical Engineering; Part-Time
Sept 2013 –Sept 2014	Medipol Univ., Faculty of Medicine, Part-Time
Oct 2011 – June 2013	Visiting Fac., Stem Cell and Cancer Res. Inst., Uni. McMaster
June-July 2008	Koc University, Faculty of Engineering, Part-Time
February 2004 – May 2004	Boğaziçi University, Inst. Biomedical Engineering; Part-Time

Post-Doctoral:

August 2000 – Oct 2002	University of Manchester Postdoctoral researcher, Prof. A. D. Sharrocks,
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	Head of Gene Regulation and Bioinformatics (MAPK-regulation of ETS domain transcription factors and role in apoptosis / cell survival)
January 1999 – August 2000	Boğaziçi University, Lecturer (TGF-β signaling pathways in PC12 cells; computer modeling of PC12 cell differentiation)
	<u>PhD and BSc:</u>
October 1995 – December 1998	Marie Curie Research Institute, (Univ. London) PhD, Biochemistry, Dr. C. R. Goding (bHLH Zip transcription factor Microphthalmia and its regulation during melanocyte differentiation)
1991 – 1995	Boğaziçi University B.Sc., Molecular Biology and Genetics

Administrative Experience

September 2015 +	Turkish Delegate for ESF – COST Action TN1301 (Enhancing the European Research Environment for the Next Generation of Young Scientists - SciGEN)
June 2015 +	Gebze Technical University, Faculty of Basic Sciences, Vice Dean
December 2014 +	Gebze Technical University, Institutional Erasmus Coordinator
Nov 2011 -2014	Yeditepe University, Faculty of Engineering and Architecture, Faculty Executive Board, Professor representative
Nov 2011 -2014	Yeditepe University, Faculty of Engineering and Architecture, Faculty Board, Professor representative
Sept 2011 -2014	Yeditepe University, Faculty of Engineering and Architecture, Faculty Seminars Committee member
October 2010 - 2011	Yeditepe University, Faculty of Education, Executive Board Member
June 2006 -2009	Turkish Delegate for ESF – COST Action B30 (Neural Plasticity and Regeneration, NEREPLAS)
May 2006 +	Yeditepe University Laboratory Animals Ethical Advisory Comm.
Feb. 2005 2014	Student Advisor (2 nd semester irregular students; Double Major, Minor, and Transfer students)
Sept. 2005 -2014	MUDEK AKCAL committee, dept. representative
2005-2009	AİPK (Academic Principles and Programmes Comm.), dept. rep.
2004 – 2007	Vice Dean, Faculty of Engineering and Architecture
Sept.2004 -2014	Socrates/Erasmus committee, dept. representative
Sept.2004 -2014	İSTEK Liseleri Scientific Advisory Committee Member
2003	Vice Dean, Faculty of Pharmacy

Awards and honors

2011	15. Uludağ Onkoloji Kongresi; best poster award (Demir et al, 2011)
2009	ESF-ALLEA European Young Academy Forum, Turkish delegate
2009	BAD (Beyin Araştırmaları Derneği)-Novartis Best Article Award (Demir et al, MCN 2009)
2008	BAD (Beyin Araştırmaları Derneği)-Lundbeck Project Award
2008	TÜBİTAK Short-term fellowship (visiting scientist; McMaster University, CA)
2007	Türkiye Bilimler Akademisi (TÜBA, Turkish Academy of Sciences); Üstün Başarılı Genç Bilim İnsanı Ödülü (GEBİP, Young Investigator Award)
2007	VI. Ulusal Sinirbilimleri Konferansı, Doç.Dr. Günfer Günkaya En İyi Poster Ödülü (Ö. Demir, A. Karabay, I.Kurnaz)
2005	TÜBİTAK Bilimsel Yayın Teşvik Ödülü
1995 – 1997	TÜBİTAK PhD scholarship
1995 – 1998	Marie Curie Cancer Care studentship
1995	Boğaziçi University, Dept. Mol. Biol. Gen. (GPA 3.35; ranked 1 st)
1991	TC İş Bankası scholarship for ÖYS ranking (ranked 63 rd in OYS)

Memberships

- Moleküler Kanser Araştırmaları Derneği (MOKAD; 2010 +)
- Hücre Ölümü Araştırmaları Derneği (HÖAD; kurucu üye; 2011 +)
- Moleküler Biyoloji Derneği (2013 +)
- International Society for Stem Cell Research (ISSCR; 2007 - 2010)
- The Biochemical Society, UK (2002 -2007)
- British Society for Cell Biology (2002 - 2005)
- International Society for Molecular and Cellular Biology Protocols and Researches (ISMCBPR; 2002 -2009)
- Tissue Engineering Society (TESI; 2003-2005)
- European Tissue Engineering Society (ETES; 2004-2005)
- Tissue Engineering and Regenerative Medicine Int'l Society (TERMIS, 2005 +)
- AgBiyoTar (1999 -2009)
- Türk Biyokimya Derneği (2004 +)
- Türkiye Beyin Araştırmaları ve Sinirbilimleri Derneği (TÜBAS; 2010 +)
- Beyin Araştırmaları Derneği (BAD; 2010 +)
- Türk Biyoteknoloji Derneği (2005 - 2009)

Refereed for International Journals and Conferences

FEBS Letters
FEBS Journal
EMBO Reports
Biotechnology Bioengineering
Int. J. Biochem. Cell Biol.
Turkish Journal of Biochemistry
HIBIT'08
Journal of Cell and Molecular Biology
Journal of Neural Regeneration Research (Int. Editor/Peer Reviewer)
BMC Systems Biology
J Basic Microbiol
J Neurochem

Public Lectures

- 24 April 2002 "Human Genetic Disorders – What do human geneticists do?"
University of Manchester
12 June 2002 "Human Genome Project - Sequencing life"
University of Manchester
27 January 2003 "Genetik ve Biyoinformatik"
Marmara Egitim Köyü
7 May 2003 "Biyoteknoloji ve Biyoinformatik Çağı"
Marmara Egitim Köyü

Seminars, conferences and workshops organized

- XIII. National Neuroscience Congress, (Scientific Advisory Board & Symposium Organizer)
April 30 – May 3, 2015, Konya, Turkey
- İstanbul Beyin Grubu Toplantısı, Avrupa Beyin Ayı Etkinliği, Mayıs 2013, Yeditepe Üniversitesi
- I. Hücre Olumu Araştırma Teknikleri Teorik Kursu; İzmir, Turkey, Kasım 2011
- 2nd Istanbul Conference on Mathematical Methods in Life Sciences, Şile, Turkey, August 2011
- 4th International Congress of Molecular Medicine, "Apoptosis and Disease" Panel, İstanbul, June 2011
- 1st Local NeuroMed Workshop of Turkey: Brain Plasticity: Tools and New Technologies, June 2011
- X. National Neuroscience Congress, "Molecular Biology of Brain Tumors" Panel, İstanbul, Turkey, April 2011
- 4th International Advanced Research Workshop on In Silico Oncology and Cancer Research, Athens, Greece, September 2010
- IX. National Neuroscience Congress, İstanbul, Turkey, April 2010

- Istanbul Conference on Mathematical Methods in Life Sciences, Şile, Turkey, August 2009
- IEES'08, Kusadasi, Turkey, 2008
- HIBIT'08 International Symposium on Health Informatics and Bioinformatics Turkey, Istanbul, 2008
- Departmental Seminar Organization, Spring 2008
- Departmental Seminar Organization, Fall 2007
- COST B30 Management Committee and Working Groups Mtg, Istanbul, 2007
- Protein Engineering, Graduate Summer School (international), Didim, 2007
- Bioinformatics II, Graduate Summer School (international), Sile, Istanbul, 2004
- Graduate Seminars, Bogazici University, 2000 (*speakers: Prof. Andrew D. Sharrocks, Dr. Patrick Varga-Weisz, Doc. Dr. Can Akcali, Dr. Enrique Castano, Prof. Ivet Bahar*)

Invited Speaker

- September 2013 "The role of ETS proteins Elk-1 and Pea3 in neuronal survival and differentiation"; Invited Talk; Dept. Neurosciences, University of Naples Federico II, Naples, Italy.
- March 2013 "Lisans ve Lisansüstü Öğrencilere Yönelik Proje Destekleri", Yeditepe University Biotechnology Student Congress, Istanbul
- March 2013 "Elk-1 ve Pea3 – nöronlarda ölüm kalım meseleleri", Bogazici University, Molecular Biology and Genetics Weekend, Istanbul
- February 2013 "The role of Elk-1 in proliferation of brain tumors: the Aurora connection", Koc University seminars, Istanbul
- September 2009 "Elk-1 transcription factor and interaction with mitotic spindles in brain tumors", Turkish Neurological Society Molecular Oncology Meeting, Istanbul
- June 2009 "Molecular Biologist's insight into neuro-glial interactions: an overview of genetic and metabolic events in neuron-astrocyte interactions", Faculty at V. EGE-BINGSS, Biennial International Neuroscience Graduate Summer School, *Ege University, Izmir*
- February 2009 "Türkiye ve Dünyada Genetik ve Biyomühendislik", Yeditepe Üniversitesi Hastanesi seminerleri, Istanbul
- November 2008 "Genetik Bilimi ve İlac Endüstrisindeki Gelişimi", SASBIL, Sağlık için Sosyal Bilimler Sempozyumu, Istanbul
- April 2008 "ETS domain transcription factors in neuronal survival and axonal growth", *ODTU, Dept. Biology*
- April 2008 "ETS bölgesi içeren transkripsiyon faktörlerinin nöronal canlılık ve aksonal gelişimdeki rolleri", *Ege University, Dept. Biochemistry*
- March 2008 "Elk-1 transkripsiyon faktörü nöronal mikrotübülerle etkileşir ve nöronal sağkalımı sağlar", *Pamukkale University, Dept. Biology*
- February 2008 "Elk-1 transkripsiyon faktörü nöronal mikrotübülerle etkileşir ve nöronal sağkalımı sağlar", *Hacettepe University, Institute of Neurological Sciences*

- December 2007 "Elk-1 transkripsiyon faktörünün nöronal mikrotübüllerle etkileşimi ve sinir hücrelerinde hayatı kalımdaki rolü", *Istanbul University, Cerrahpasa Medical School*
- November 2007 "Elk-1 transcription factor interacts with neuronal microtubules and mediates neuronal survival", *Izmir Yuksek Teknoloji Enstitusu*
- December 2006 "The role of ETS domain transcription factors in neuronal survival", *Bilkent University seminars*
- December 2004 "Experimental and computational approaches to neural differentiation and cellular engineering", *ITU seminars*
- January 2004 "The role of ETS domain transcription factors in neuronal survival and differentiation", *Koc University seminars*

Meetings and Workshops attended

- **European Brain Research – Successes and next challenges**, European Month of the Brain Conference, May 14, 2013, Brussels, Belgium
- **Ortaöğretim Öğretmenlerinin Proje Uretimi ve Yönetimi Çalışayı**, danışman öğretim üyesi, 22-31 Agustos 2008, TUBITAK ve Marmara University organization, Şehremeni Anadolu Lisesi, İstanbul
- Turkish Academy of Sciences (TUBA) Symposium – **Current Perspectives on Stem Cell Biology and Clinical Applications**, 7 September 2006, The Marmara Hotel, İstanbul
- Programme for the European Science Foundation (ESF) – **ESF Bilgi Günü**; Haziran 2006, TÜBİTAK Marmara Araştırma Merkezi, İstanbul
- EMBO / EMBC Tanıtım ve Bilgi Paylaşımı Günü, 17 Mayıs 2006; Boğaziçi Üniversitesi Rektörlük Konferans Salonu, İstanbul
- EMBO / EMBC Tanıtım ve Bilgi Paylaşımı Günü, 18 Mayıs 2006; TÜBİTAK Başkanlık Binası, Feza Gürsey Toplantı Salonu, Ankara
- TUBITAK A.B. Cerçeve Programları -**Yaşam Bilimleri, Genom Bilim ve Sağlık için Biyoteknoloji Alanı Bilgi Günü**, 29 September 2005, Marmara University Hospital, İstanbul
- Turkish Academy of Sciences (TUBA) Symposium – **Current Perspectives on Stem Cell Biology and Clinical Applications**, 27 September 2005, The Marmara Hotel, İstanbul
- TUBITAK A.B. 6th Framework Programme Kick-off Meeting, February 2004, Lutfu Kirdar Congress Center, İstanbul
- LXIII: Mechanisms of Transcription, Cold Spring Harbor Symposia on Quantitative Biology, CSHL, NY, 1998
- LXII: Pattern Formation During Development, Cold Spring Harbor Symposia on Quantitative Biology, CSHL, NY, 1997
- Biochemical Society UK, **Genes and Cancer Meeting**, University of Warwick, UK, 1998
- British Society for Cellular Biology Meeting, University of York, 1997

Teaching Experience

GTU 2015/16 Fall	MBG 439 Neurobiology MBG 495 Graduation Project I
GTU 2014/15 Spring	MBG 735 Advanced Neurobiology ENG 320 Vocational English MBG 496 Graduation Project II
GYTE 2014/15 Fall	MBG 439 Neurobiology MBG 495 Graduation Project I
YU 2013/14 Spring	GBE 341 Techniques in Genetic Engineering I GBE 342 Techniques in Genetic Engineering II Visual Literacy Module: Biology of the Eye and Retina GBE 492 Engineering Project
BOUN 2013/14 Spring	BM 683 Advances in Molecular Neurobiology: Neural Stem Cells and Neuroregenerative Approaches
YU 2013/14 Fall	GBE 341 Techniques in Genetic Engineering I GBE 342 Techniques in Genetic Engineering II Visual Literacy Module: Biology of the Eye and Retina BTEC 584 Selected Topics: Adult Neurogenesis
BOUN 2013/14 Fall	BM 683 Advances in Molecular Neurobiology: Neural Stem Cells and Neuroregenerative Approaches
YU 2012/13 Spring	GBE 341 Techniques in Genetic Engineering I GBE 342 Techniques in Genetic Engineering II GBE 103 Introduction to GBE
MU 2012/13 Spring	Medical Biology and Genetics Committees I-V
YU 2012/13 Fall	GBE 341 Techniques in Genetic Engineering I GBE 342 Techniques in Genetic Engineering II GBE 103 Introduction to GBE BTEC 604 Current Topics in Biotechnology HESC 574 Human Genetics for Health Sciences
MU 2012/13 Fall	Medical Biology and Genetics Committees I-V
YU 2011/12 Spring	GBE 341 Techniques in Genetic Engineering I GBE 342 Techniques in Genetic Engineering II GBE 403 Molecular Biology I GBE 103 Introduction to GBE Visual Literacy Module: Biology of the Eye and Retina GBE 492 Engineering Project
MU 2011/12 Spring	Medical Biology and Genetics Committees I-V
YU 2011/12 Fall	GBE 341 Techniques in Genetic Engineering I GBE 342 Techniques in Genetic Engineering II GBE 324 Neurobiology GBE 103 Introduction to GBE Visual Literacy Module: Biology of the Eye and Retina GBE 492 Engineering Project
MU 2011/12 Fall	Medical Biology and Genetics Council I
YU 2010/11 Spring	GBE 341 Techniques in Genetic Engineering I GBE 342 Techniques in Genetic Engineering II GBE 403 Molecular Biology I BTEC 524 Special Topics in Biotechnology: Adult Neurogenesis Visual Literacy Module: Biology of the Eye and Retina GBE 492 Engineering Project
YU 2010/11 Fall	GBE 341 Techniques in Genetic Engineering I GBE 342 Techniques in Genetic Engineering II GBE 403 Molecular Biology I

	BTEC 522 Special Topics in Biotechnology: Signal Transduction Pathways Visual Literacy Module: Biology of the Eye and Retina <u>HSEC</u> Human Genetics for Health Sciences GBE 492 Engineering Project
YU 2009/10 Fall	GBE 318 Techniques in Genetic Engineering GBE 401 Molecular Biology I GBE 324 Neurobiology Visual Literacy Module: Biology of the Eye and Retina GBE 492 Engineering Project
YU 2008/9 Spring	GBE 318 Techniques in Genetic Engineering GBE 401 Molecular Biology I GBE 474 Trends in Stem Cell Research GBE 492 Engineering Project
YU 2008/9 Fall	GBE 318 Techniques in Genetic Engineering GBE 401 Molecular Biology I GBE 324 Neurobiology BTEC 522 Special Topics in Biotechnology: Signal Transduction Pathways Visual Literacy Module: Biology of the Eye and Retina FDE 101 Introduction to Food Engineering: genetic engineering module GBE 492 Engineering Project
YU 2007/8 Spring	GBE 318 Techniques in Genetic Engineering GBE 401 Molecular Biology I BTEC 522 Special Topics in Biotechnology: Signal Transduction Pathways BTEC 510 Graduate Seminar Visual Literacy Module: Biology of the Eye and Retina <u>HSEC</u> Human Genetics for Health Sciences
YU 2007/8 Fall	GBE 318 Techniques in Genetic Engineering GBE 401 Molecular Biology I GBE 474 Trends in Stem Cell Research BTEC 510 Graduate Seminar Visual Literacy Module: Biology of the Eye and Retina
YU 2006/7 Spring	GBE 324 Neurobiology GBE 318 Techniques in Genetic Engineering Visual Literacy Module: Biology of the Eye and Retina <u>HSCI (Graduate)</u> – Human Genetics for Health Sciences
YU 2006/7 Fall	GBE 101 Biology I GBE 318 Techniques in Genetic Engineering
YU 2005/6 Spring	GBE 205 Cell Biology GBE 106 Introduction to Genetics and Bioengineering GBE 102 Biology II
YU 2005/6 Fall	GBE 205 Cell Biology GBE 106 Introduction to Genetics and Bioengineering <u>Faculty of Medicine, Phase III</u> – Molecular Genetics of Colorectal cancer; Molecular Basis of hemoglobinopathies and DNA-based diagnosis
YU 2004/5 Spring	<u>HSCI (Graduate)</u> – Human Genetics for Health Sciences GBE102 Biology II GBE106 Introduction to Genetics and Bioengineering
YU 2004/5 Fall	BIO130 Fundamentals of General Biology GBE101 Biology I CSE492 Engineering Project <u>Faculty of Medicine, Phase III</u> – Molecular Genetics of Colorectal cancer; Molecular Basis of hemoglobinopathies and DNA-based diagnosis
KU 2003/4 Spring	BIOL200 Introductory Biology
YU 2003/4 Spring	ES103 Computer Systems and Information technologies <u>Faculty of Medicine, Phase I</u> – Medical Biology and Genetics <u>Faculty of Medicine, Phase II</u> – Molecular Basis of antibody diversity;

	Molecular Basis of Cancer <u>Faculty of Medicine, Phase III</u> – Genetic Basis of Hemoglobinopathies; Genetic basis of growth hormone deficiencies; Genetic Basis of Diabetes Mellitus; Genetic Basis of Renal Disorders; Genetic Basis of Thyroid and Parathyroid Disorders; Genetic Disorders of the Gonads, reproductive tracts and breast ducts; Genetic basis of neurological disorders
BU 2003/4 Fall	BM591 Bioinformatics in the post-genomic era
YU 2003/4 Fall	CSE482 Bioinformatics ES103 Computer Systems and Information technologies <u>Faculty of Medicine, Phase I</u> – Medical Biology and Genetics; Clinical Biochemistry Laboratory <u>Faculty of Medicine, Phase II</u> - Cardiovascular and Respiratory Systems: Genomic organization and expression of Immunoglobulins <u>Faculty of Medicine, Phase III</u> – Molecular Genetics of Colorectal cancer; Molecular Basis of hemoglobinopathies and DNA-based Diagnosis
BU 2002/3 Spring	BM591 Bioinformatics in the post-genomic era
YU 2002/3 Spring	BIO122 Introduction to Genetics
BU 99/2000 Summer	BIO353 Molecular Genetics
BU 99/2000 Spring	BIO332 Techniques in Modern Biology BIO407 Seminar BIO492 Special Topics - Projects BIO485 - Computers in Biology (shared with Doc. Dr. Levent Kurnaz)
BU 99/2000 Autumn	BIO101 General Biology - I BIO407 Seminar (shared with Prof. Ahmet Koman) BIO241 Cell Biology
BU 1998/99 Summer	BIO152 General Biology for Non-majors (shared with Prof. Hande Caglayan)
BU 1998/99 Spring	BIO152 General Biology for Non-majors BIO101 General Biology -I

(BU: Boğaziçi University; YU: Yeditepe University; KU: Koç University; MU: Medipol University; GYTE: Gebze Institute of Technology; GTU, Gebze Technical University)

Projects Funded

TUBITAK 1001 (Project Coordinator), 2015

"Beyin tümör model hücrelerinde ETS proteini Elk-1'in mitotik kinazlar ile etkileşimi ve fosforlanması", KBAG, 360.000TL, 3 yrs

TUBITAK Hızlı Destek (Project Coordinator), 2015

"Sinir hücresi modellerinde Pea3 protein ailesinin nöronal farklılaşmayla ilgili hedef genlerinin analizi", KBAG, 30.000TL, 1 yr

FENS BAW Project (2014)

"MyBrain – Brain Awareness Week 2015 Activity for Nursery School and Elementary School students in Greater Istanbul Area"

TUBITAK 1001 – 113S345 (Research Partner), 2014

"Tiroid hormonunun sinaptik plastisitenin davranışsal, moleküler ve elektrofizyolojik göstergeleri üzerine olan genomik ve non-genomik etkilerinin kanülimplante edilmiş yetişkin sığanlarda incelenmesi", SBAG, 250.000 TL, 2 years

TUBITAK Hızlı Destek (Project Coordinator), 2012

"Elk-1 transkripsiyon faktörü üzerindeki potansiyel mitotik kinaz motiflerine karşı fosfo-spesifik antikorların geliştirilmesi ve etkileşim deneylerinde kullanılması", SBAG, 30.000 TL, 1 year

TUBITAK COST TD901-211T167 (Project Coordinator), 2012

"Elk-1 proteininin hipoksiye bağlı regülasyonu ve nörokorunmaya olan etkileri", TBAG, 284.000 TL, 3 yrs

TUBITAK Hızlı Destek (Project Coordinator), 2009

"Gliyoblastoma hücrelerinde Elk-1 mitoz ilişkisinin araştırılması", SBAG, 25.000 YTL, 1 yr

FP7 REGPOT – NeuroMed (Project Coordinator: D Boussaud), 2009-2012

"Mediterranean Neuroscience Network"

Türk Kanser Araştırma ve Savaş Kurumu Derneği (Project Coordinator: O. Demir), 2009

"Elk-1 transkripsiyon faktörünün mitoz ile olan ilişkisinin belirlenmesi", Terry Fox Kanser Araştırma Destekleri Fonu, 18.000 YTL, 12 months

Beyin Arastirmalari Dernegi (BAD) (Project Coordinator: B. Caglayan), 2008

"Pea3 Transkripsiyon Faktoru Uzerinde Noronal Farklılıasmayla İlgili MAPK fosforilasyon bolgelerinin haritalandırılması", BAD-Lundbeck Proje Odulu, 7000 YTL, 12 months

NOVARTIS (Research Partner), 2008

"Makromolekuler Kemoterapi ajanlarının sentezi ve biyolojik aktiviteleri", Novartis Farmasotik ve Medisinal Kimya İlac Tasarımı Arastirma Destegi, yurutucu: Rana Sanyal, 18 months

TUBITAK (Research Partner), 2007

"Sinir hücresi ve astrositlerdeki glikoz-laktoz metabolizmasının bilgisayar destekli incelenmesi", TBAG, 62.800 YTL, 2 yrs

TUBITAK (Project Coordinator), 2007

"Pea3 Transkripsiyon Faktörlerinin Aksonal Sinir Uzantısı Oluşumu Moleküler Mekanizmasına Etkilerinin İncelenmesi", SBAG, 200.000 YTL, 2 yrs

TUBITAK (Research Partner), 2007

"Kötü Huylu Beyin Tümörlerinde Tümör Hücresinin Yaşamını Ve Çoğalmasını Sağlayan Elk1 Transkripsiyon Faktörünün Fosfatidilinositol-3-Fosfat/Akt Yolu İle Etkileşiminin Araştırılması", yurutucu: Melike Mut, 2 yrs

TUBITAK-0301-COST (Project Coordinator), 106S247, 2007

"Sinir Hücresi Hasarı Ve Nöroregenerasyon Süreçlerinde Aksonal Bağlantıların Moleküler Mekanizmalarının Araştırılması - B30 Nereplas", 240.000 YTL, 2 yrs (SBAG-COST-B30-6)

TUBITAK – Career Development Projects (researcher), 2007

"İnsan Mezenkimal Kök Hücre Transdifferansiyasyonu ile Alakalı Gene Transkripsiyonunda DNA Topoizomeraz II 'nın Rolü ", yürütücü: Sevim Işık, Fatih Üniversitesi

L'oreal Turkiye Genc Bilim Kadınlarına Destek Bursu, (Project Coordinator), 2006

"Elk-1 ve RSK2 proteinleri arasındaki etkileşim bölgesinin *in vitro* ve hücre kültürü deneyleriyle belirlenmesi", USD10,000.-

DPT-İleri Araştırma Projesi, 2005 (Project Coordinator)

"Metastatik tümörlerde gen anlatımı profilinin bütünlendirilmiş biyobilişim yaklaşımı ile incelenmesi ve ilaç hedeflerinin tanımlanması", 232.000,-YTL, 3 yrs

TUBITAK, TBAG 2373, 2004 (Project Coordinator)

"Mayada Glikoz ve Galaktoz metabolic salınımların bilgisayar destekli genetik kontrol modeli", 6.500,-YTL

Bogazici University Research Fund, 99B, 1999 (Project Coordinator)

"PC12 hücre sisteminde TGF- β mesaj ileti yolunun araştırılması", USD4,000.-

TUBITAK 1780, 1999 (Project Coordinator)

"PC12 hücrelerinde TGF- β mesaj yolaklarının araştırılması", USD3,500.-

TWAS (accepted for funding by TWAS) (Project Coordinator)

"Identification of the TGF- β signaling pathway components in PC12 cells", USD10,000

Projects Supervised

2014 +	Advisor, MSc thesis, Merve Üstün
2014 +	Advisor, MSc thesis, Zeynep Tansu Atasavum
2013 +	Co-advisor, PhD thesis, Başak Arslan
2011 +	Co-advisor, PhD thesis, Melis Savaşan
2011 +	Co-advisor, PhD thesis, Başak Kandemir
2011 +	Co-advisor, MSc thesis, Eray Şahin
2012 +	Co-advisor, PhD thesis, Oya Arı
2011-2013	Advisor, MSc thesis, Elif Kon <i>"Expression analysis of transcription factors of Elk-1 and Pea3"</i>
2011-2013	Advisor, MSc thesis, Goksu Alpay <i>"Transcriptional activation of the copper-zinc superoxide dismutase gene by Elk-1"</i>
2009-2013	Co- Advisor, PhD thesis, Seda Genc

- "Integrated kinetic, genetic and thermodynamic investigation of brain energy metabolism in neurons and astrocytes"
- 2011-2012 Supervisor, undergraduate project, İpek Çetinkaya
- 2011-2012 Supervisor, undergraduate project, Ezgi Boylu
- 2011-2012 Supervisor, undergraduate project, Ekin Laçın; TÜBİTAK BİDEB 2209
"Nöro-Gliyal laktat mekik sisteminde etkisi olduğuna inanılan MCT taşıyıcılarının ve LDH enzimlerinin C6 glioma astrosit sıçan hücrelerinde incelenmesi"
- 2010 - 2012 Advisor, MSc thesis, Oya Ari
- 2010-2011 Supervisor, undergraduate project, Elif Kon
"Cloning 5'- and 3'-UTRs of the elk-1 message"
- 2010-2011 Supervisor, undergraduate project, Berfu Tavelli
"Methylation analysis of the elk-1 promoter"
- 2009-2010 Supervisor, undergraduate project,
Ugur Dag; TÜBİTAK BİDEB
"Pea3 proteininin sinir hucreleri farklılaşmasından ve gelişiminden sorumlu hedef promoter'larının belirlenmesi"
- 2009-2010 Supervisor, undergraduate project,
Burcu Erdogan; TÜBİTAK BİDEB
"Klonlanmış Pea3 promoter bölgelerinde Pea3 doğal tur ve fosforilasyon mutantlarının regulasyonunun lusiferaz takip metodu ile incelenmesi"
- 2007-2010 Supervisor, undergraduate project,
Tugce Bilgin; TÜBİTAK BİDEB
"Proteinlerin aktif bölgelerinde sağlam kodon kullanımının teşhis";
"Statistical analyses for evolution of codons"
- 2010 Supervisor, undergraduate project,
Ali Yasin Sonay; TÜBİTAK BİDEB
"GEPASI benzetim programı ve deneySEL veriler kullanılarak Elk-1, SRF ve Sap-1 genlerinin kontrolünün modellenmesi"
- 2010 Supervisor, undergraduate project,
Perihan Ünver
"Effect of RSK2 and its deletion mutants on Elk-1 regulated c-fos promoter"
- 2010 Supervisor, undergraduate project,
Gamze Bilgili
"The regulation of Elk-1 promoter in hypoxia"
- 2010 Supervisor, undergraduate project, Alpen Ortuğ
- 2009 Supervisor, undergraduate project,
Adife Özden
"siRNA-mediated knock-down of SRF expression"
- 2008 + Advisor, MSc Thesis, Recep Kulan, YU
- 2008 2010 Advisor, MSc Thesis, Melis Savasan, YU

		<i>"Evaluating the interactions between neurofilament promoters and the ETS transcription factor Pea3 by using different cell lines"</i>
2008 -2010	Supervisor, undergraduate project, Hande Ozgen	<i>"Cloning 5'- and 3'-UTRs of the elk-1 message"</i>
2008 -2010	Supervisor, undergraduate project, Mehmet Bakirciooglu	<i>"Cloning of alternatively spliced or translated isoforms of Elk-1"</i>
2008 -2010	Supervisor, undergraduate project, Mehmet Unal Gunes	<i>"Gene regulatory networks and analysis of elk-1 and egr-1 promoters"</i>
2007	Supervisor, undergraduate project, Aslı Dedeağaç, TÜBİTAK BİDEB, 1500 YTL	<i>"Site-directed mutagenesis of the Pea3 protein"</i>
2007	Supervisor, undergraduate project, Zeynep Önder	<i>"The potential regulation of the SMN gene through the ets motif"</i>
2007 -2009	Supervisor, undergraduate project, Gaye Sağınç, TÜBİTAK BİDEB, 1350 YTL Üniversite Öğrencileri Yurtiçi/Yurtdışı Araştırma Projeleri Destekleme Programı	<i>"RSK2 ve Elk-1 proteinlerinin hücre içi lokalizasyonları"</i>
2007 -2009	Supervisor, undergraduate research project, Aslı Dedeağaç, TÜBİTAK BİDEB, 1500 YTL Üniversite Öğrencileri Yurtiçi/Yurtdışı Araştırma Projeleri Destekleme Programı	<i>"Bölge hedefli mutajenezi ile Pea3 proteini mutanti oluşturulması"</i>
2007 - 2009	Coadvisor, MSc thesis, Seda Alper Genc, YÜ	<i>"Integrated genetics, kinetics and thermodynamics investigation of brain energy metabolism in neuron and astrocyte"</i>
2007 -2010	Advisor, MSc thesis, Berrak Caglayan, YÜ	<i>"Identification of upstream regulators of MAPK stimulated Pea3 mediated neural differentiation of PC12 cells"</i>
2005-2007	Coadvisor, MSc thesis, Özlem Demir, İTÜ	<i>"The interaction between Elk-1 and microtubules in neurons"</i>
2004 -2005	Coadvisor, MSc thesis, Meryem Ayse Yucel, BU	<i>"A biochemical model for the interactions between tumor cell mass and vascular epithelial cells leading to angiogenesis"</i>
2006-07 Fall	Coadvisor, Graduation Project, Esra Bal, YU CHBE	
2004 (Summer)	Summer internship projects Kaan Yıldancıoğlu, İstanbul Univ. Cerrahpasa Faculty of Medicine	

“Constructing deletion mutants of RSK2 for interaction mapping assays”

Burcu Gorgulu, Sabanci University, Faculty of Eng. Nat. Sci.

“Site-directed mutagenesis of mouse PEA3 for phosphorylation assays”

Ozlem Demir, Bogazici University, Dept. Mol.Biol. Genetics

“Simulation of the GAL genetic switch using Gepasi modeling software”

2003

BIO 591 / EE492 Project, Gokhan Ertaylan

“Modeling of Glycolysis and Glycolytic Oscillations”

2000

BIO 491 Special Project, Umut Sahin

“RT-PCR analysis of differentiating PC12 cells for Smad expression”

Publications

Peer-Reviewed Journal Articles

1. Kandemir B, Dag U, Gungor BB, Durasi IM, Erdogan B, Kayacan Y, Sahin E, Sezerman U, Aksan Kurnaz I (2014). Identification of novel transcriptional targets of Pea3 in SH-SY5Y neuroblastoma cells. *In preparation*
2. Kandemir B, Caglayan, B, Hausott B, Erdogan B, Dag U, Demir, O, Savasan M, Klimaschewski L, and Aksan Kurnaz, I. (2014) Pea3 transcription factor promotes neurite outgrowth. **Front. Cell. Neurosci.** 7(59):1-11; doi: 10.3389/fnmol.2014.00059
3. Karaosmanoglu K, Sayar NA, Kurnaz IA, Akbulut BS (2014). Assessment of berberine as a multi-target antimicrobial: a multi-omics study for drug discovery and repositioning. **OMICS** 18(1): 42 – 53.
4. Genc S, Ozilgen M, Sorguven E, Aksan Kurnaz I (2013) Unsteady exergy loss of the neurons under dynamic stress conditions. **Energy** 59:422 – 431.
5. Bilgin T, Aksan Kurnaz I, Wagner A (2013). Selection shapes the robustness of ligand-binding amino acids. **J Mol Evol.** 76(5):343-9
6. Demir O, Aksan Kurnaz I (2013). Phospho-Ser383-Elk-1 is localized to the mitotic spindles during cell cycle and interacts with mitotic kinase Aurora-A. **Cell Biochem Func** 31(7):591-8
7. Genc S, Sorguven E, Aksan Kurnaz I, Ozilgen M (2013). Exergetic efficiency of neuronal glucose metabolism. **Int J Exergy** 13(1): 60 - 84
8. Akgün H, Karamelekoğlu I, Berk B, **Kurnaz I**, Sarıbüyük G, Oktem S, Kocagöz T (2012). Synthesis and antimycobacterial activity of some phthalimide derivatives. **Bioorg Med Chem.** 20(13): 4149 – 4154.
9. Mut M, Lule S, Demir O, Kurnaz IA, Vural I (2011). Both MAPK/ERK1/2 and PI3K/AKT pathways regulate activation of Elk-1 transcription factor in U138 glioblastoma cells. **Int J Biochem Cell Biol** 44(2):302-10
10. Genc S, Aksan Kurnaz I, Ozilgen M (2011). Astrocyte-neuron lactate shuttle may boost more ATP supply to the neuron under hypoxic conditions – experimental and *in silico* study in parallel. **BMC Sys Biol** 5: 162
11. Demir O, Ari O, Aksan Kurnaz I (2012). Elk-1 interacts with dynein upon serum stimulation but independent of Serine 383 phosphorylation. **Cell Mol Neurobiol** 32(2): 185 – 189.
12. Demir O, Aysit N, Vickers ER, Onder Z, Turkel N, Ozturk G, Sharrocks AD, Aksan Kurnaz I. (2011) The ETS domain transcription factor Elk-1 mediates neuronal survival via regulating SMN promoter. **BBA Mol Bas Dis** 1812(6):652-62.
13. Berk B, Us D, Oktem S, Kocagoz ZT, Caglayan B, Kurnaz IA, Erol DD (2011). Molecular modeling and antimycobacterial studies of Mannich bases: 5-hydroxy-2-methyl-4H-pran-4-ones. **Turk J Chem** 35(2): 317 – 330.

14. Us D, Berk B, Gurdal E, Aytekin N, Kocagoz T, Caglayan B, Aksan Kurnaz I, Erol DD (2010). Mannich base derivatives of 3-hydroxy-6-methyl-4H-pyran-4-one with antimicrobial activity. **Turk J Chem** 34: 1 – 10.
15. Kurnaz, ML, Bilgin, T, and Aksan Kurnaz, I. (2010). Certain non-standard coding tables appear to be more robust to error than the standard genetic code. **J. Mol. Evol.** 70(1): 13 – 28
16. Demir O, Singh S, Klimaschewski L, Aksan Kurnaz I. (2009). From birth till death: neurogenesis, cell cycle and neurodegeneration. Invited Review. **Anat. Rec.** 292(12): 1953-1961.
17. Hausott B, Kurnaz I, Gajovic S, Klimaschewski L (2009). Signaling by neuronal tyrosine kinase receptors: relevance for development and regeneration. Invited Review. **Anat. Rec.** 292(12): 1976-1985.
18. Us D, Gurdal E, Berk B, Oktem S, Kocagoz T, Caglayan B, Aksan Kurnaz I, Erol DD (2009). 4H-Pyran-4-one derivatives: leading molecule for preparation of compounds with antimycobacterial potential. **Turk J Chem** 33: 803 – 812.
19. Akgun H, Berk B, Erol DD, Mercanoglu G, Bayrak OF, Caglayan B, Dedeagac A and Aksan Kurnaz I (2009). Nitric oxide releasing derivatives of [(2-chloroethyl) ureido] benzoic acid esters: potential antineoplastic agents? **Turk. J. Chem.** 33: 107 – 121.
20. Demir, O, Korulu, S, Yildiz, A, Karabay Korkmaz, A, and Aksan Kurnaz, I. (2009). Elk-1 interacts with neuronal microtubules and relocates to the nucleus upon phosphorylation. **Molec. Cell. Neurosci.** 40(1):111-9.
21. Kurnaz, ML, Bilgin, T, and Aksan Kurnaz, I. (2008). A statistical analysis of the robustness of alternate genetic coding tables. **Int. J. Molec. Sci.** 9(5): 679 – 697.
22. Demir, O, Aksan Kurnaz, I (2008). Wildtype Elk-1, but not a SUMOylation mutant, represses *egr-1* expression in SH-SY5Y neuroblastomas. **Neurosci. Lett.** 437: 20 – 24.
23. Yücel, MA, and Aksan Kurnaz, I. (2007). A computational model for oxygen sensing mechanisms and hypoxia-induced gene expression. **Biotechnol. Bioeng.**, 97(3): 588 – 600.
24. Demir, O, and Aksan Kurnaz, I. (2006). An integrated model of glucose and galactose metabolism regulated by the *GAL* genetic switch. **Comp Biol Chem**, 30(3): 179 – 192.
25. Aksan Kurnaz, I. (2005). A gene expression study of the TGF- β signaling pathway components in differentiating PC12 cells. **Turk J Biol**, 29: 1-7.
26. Aksan Kurnaz, I. (2005). Biochemical modeling tools and applications to metabolic engineering. (*Biyokimyasal modelleme gereçleri ve metabolik mühendislik uygulamaları*). **Turk J Biochem.** 30(2): 200-207.
27. Carreira, S, Goodall, J, Aksan, I, La Rocca, SA, Galibert, M-D, Denat, L, Larue, L, and Goding, CR. (2005). Mitf cooperates with Rb1 and activates p21^{Cip1} expression to regulate cell cycle progression. **Nature**, 433: 764 – 769.
28. Oney, I, Aksan Kurnaz, I, and Kurnaz, ML. (2005). Cytoplasmic-to-nuclear volume ratio affects cell cycle responsiveness at the transcriptional level. **FEBS Lett.** 579(2): 433 – 440.
29. Vickers, ER, Kasza, A, Aksan Kurnaz, I, Seifert, A, Zeef, L, O'Donnell, A, Hayes, A, and Sharrocks, AD. (2004) Ternary TCF-SRF complex-regulated gene activity is required for cellular proliferation and inhibition of apoptotic cell death, **Mol. Cell.Biol.** 24(23): 10340 – 10351.

30. Aksan Kurnaz, I (2004) A kinetic analysis of RSK2 and Elk-1 interaction on the serum response element and implications for cellular engineering. **Biotech. Bioeng.** 88(7): 890-900.
31. Emir, UE and Aksan Kurnaz, I (2003). An integrated model for melanocyte-specific gene expression and melanogenesis. **Signal Transduction: Receptors, mediators and genes**, 3(5-6): 209 – 217.
32. Aksan, I and Kurnaz, ML. (2003) A computer-based model for the regulation of MAPK activation. **J. Rec. Signal Transduc.** 23(2-3): 197 – 209.
33. Aksan, I and Stinson, JA. (2002) Piecing together the cancer puzzle. **Trends in Bioch. Sci.** 27(8): 387 – 389.
34. Aksan, I. and Goding, C.R. (1998). Targeting the Microphthalmia basic helix-loop-helix-leucine zipper transcription factor to a subset of E-box elements in vitro and in vivo. **Mol. Cell. Biol.** 18(12), 6930-6938.

International Meeting Abstracts

1. Sahin E, Aksan Kurnaz I (2015). Ets proteins in neuronal survival and differentiation; Poster presentation, 9th World Congress of IBRO (IBRO 2015), Rio de Janeiro, Brazil
2. Tan B, Bitiktaş S, Kavraal S, Kandemir B, Altuntaş H, Dursun N, Liman N, Aksan Kurnaz I, Süer C (2014). Possible Involvement of p38MAPK and PP1 in Impaired Hippocampal Function Induced by 21-day Propylthiouracil Treatment. Poster presentation; 27th ECNP (European College of Neuropsychopharmacology) Congress, Berlin, October 2014.
3. Bitiktaş S, Tan B, Kandemir B, Kavraal S, Liman N, Altuntaş H, Dursun N, Aksan Kurnaz I, Süer C (2014). Possible Involvement of shifting NR₂B subunit to NR₂A subunit in Impaired Hippocampal Function Induced by 21-day Thyroxine Treatment. Poster presentation; 27th ECNP (European College of Neuropsychopharmacology) Congress, Berlin, October 2014.
4. Aksan Kurnaz I, Kandemir B, Sahin E (2014). ETS proteins Elk-1 and Pea3 and their transcriptional targets in neuronal survival and differentiation. Poster presentation, FEBS-EMBO meeting, Paris, FR; September 2014.
5. Kandemir, B (2014). Microarray Identification of potential novel targets of Ets-domain transcription factor Pea3. Poster presentation, FEBS-EMBO meeting, Paris, FR; September 2014.
6. Ari O (2014). The interaction between Elk-1 and mitotic kinases. Poster presentation, FEBS-EMBO meeting, Paris, FR; September 2014.
7. Sahin E, Alpay G, Aksan Kurnaz I (2013). Elk-1 and Sod1 interaction under hypoxic conditions. Poster presentation; EMBO meeting, Amsterdam, NL, September 2013.
8. Ari O, Demir O, Aksan Kurnaz I (2013). The interaction between Elk-1 and Aurora-A kinase. Poster presentation; EMBO meeting, Amsterdam, NL, September 2013.
9. Kandemir B, Kon E, Aksan Kurnaz I (2013). The interaction between Pea3 and NeuroD during neuronal differentiation. Poster presentation; EMBO meeting, Amsterdam, NL, September 2013.

10. Aksan Kurnaz I, Ari O, Demir O, Kandemir B, Erdogan B, Dag U (2013). Elk-1 and Pea3 transcription factors in neuronal life-and-death struggle. Nanosymposium talk; SfN 2013, San Diego, USA
11. Aksan Kurnaz I (2012). Neural plasticity: From molecules to behavior. Keynote lecture, MNS Satellite event: Neural Plasticity in Health and Disease, Sept. 2012.
12. Bitiktas S, Kavraal S, Kandemir B, Dag U, Erdogan B, Artis S, Dolu N, Aksan Kurnaz I, Suer C (2012). Investigation of relationships between long-term potentiation and Elk-1 in hyperthyroid rats. Poster presentation; 8th FENS Forum of Neuroscience, Barcelona, Spain, July 2012.
13. Ari O, Demir O, Aksan Kurnaz I (2012). The interaction between Elk-1 and microtubule based motor proteins. Poster presentation; 8th FENS Forum of Neuroscience, Barcelona, Spain, July 2012
14. Dag U, Artis S, Erdogan B, Bitiktas S, Kavraal S, Dolu N, Aksan Kurnaz I, Suer C (2012). Investigation of relationship between long-term potentiation and Elk-1 in hyperthyroid rats. Poster presentation; Valencia 2012.
15. Samli A, Aksan Kurnaz I, Kurnaz ML (2011). An *in silico* study of cell-to-cell signaling and angiogenesis. Cell Signaling and Networks Conference (CSN2011), Merida, Yucatan, Mexico, October 2011.
16. Mut M, Unver P, Demir O, Lule S, Ari O, Balcı-Peynircioğlu B, Aksan-Kurnaz I (2011). The role of MAPK and Akt pathways in nucleocytoplasmic shuttling of Elk-1 in brain tumor-derived cell lines and the Ran GTP-GDP cycle. Cell Signaling and Networks Conference (CSN2011), Merida, Yucatan, Mexico, October 2011.
17. Kurnaz I (2011). Molecular techniques in neurobiology. Oral Presentation, 1st Local NeuroMed Workshop of Turkey: Brain Plasticity: Tools and New Technologies, Istanbul, June 2011
18. Genc SA, Kurnaz I (2011). Bioinformatics in Metabolic Engineering. Invited Lecture, Metabolic Engineering Graduate Summer School, Bodrum, June 2011
19. Genc SA, Kurnaz I (2011). Modeling for Cellular Reactions. Invited Lecture, Metabolic Engineering Graduate Summer School, Bodrum, June 2011
20. Kurnaz I (2011). Ets domain transcription factors in neurodegenerative disorders. Invited Symposium, Oral presentation, 4th International Congress of Molecular Medicine, Istanbul, June 2011
21. Genc S, Aksan Kurnaz I, Ozilgen M (2011). Modeling neuro-glial interactions: lactate shuttle hypothesis, Oral presentation, International Congress on Bioinformatics and Biomics, Kusadası, May 2011.
22. Durasi IM, Dag U, Gungor BB, Erdogan B, Kurnaz IA, Sezerman OU (2011). Identification of transcription factor binding sites in promoter databases. IEEE **Proc. 6th Intl. Symp. Health Inf. Bioinf.** (HIBIT'11), p68 – 73.
23. Ozbalci C, Karaosmanoglu K, Kurnaz IA, Kazan D, Akbulut BS (2010). Comparative transcriptome and proteome analysis for the effect of berberine. Poster presentation, 35th Congress of the FEBS, Gothenburg, Sweden; **FEBS J** 277: 184 – 185.

24. Genc S, Aksan Kurnaz I, Ozilgen M (2010). Brain Energy Metabolism and implications for brain tumors: an in silico study. Oral presentation, 4th Int Adv Res Workshop on *In Silico* Oncology and Cancer Investigation. September 2010, Athens, Greece.
25. Erdogan B, Caglayan B, Demir O, Aksan Kurnaz I (2010). Identification and regulation of pea3 transcription factor target genes involved in neuronal development and differentiation. Poster presentation, FENS Forum 2010, Amsterdam, NL.
26. Dag U, Caglayan B, Demir O, Aksan Kurnaz I (2010). The identification of Pea3 target genes playing roles in neuronal differentiation and axonal growth. Poster presentation, FENS Forum 2010, Amsterdam, NL.
27. Bilgin T, Kurnaz ML, Aksan Kurnaz I (2009). Robustness of alternate coding tables – a statistical analysis. Symposium on Evolutionary Systems Biology and ESEB Congress, Aug 2009, Turin, Italy.
28. Mut, M, Demir, O, Kurnaz, I, Akalan, N (2008). Evaluation of Elk-1 activation by PI3K/Akt pathway in glioblastoma. Society for Neuro-Oncology 13th Annual Mtg, November, Las Vegas, USA; **Neuro-oncology 10(5):p770.**
29. Saginc, G, Demir, O, Aksan Kurnaz, I (2008). RSK2 histone kinase deletions and impact on Elk-1 function. Intl. Enzyme Eng. Symp.'08, September, Kusadasi, Turkey.
30. Aksan Kurnaz, I (2008). *In silico* predictions on the engineering of the hypoxia pathway. Intl. Enzyme Eng. Symp.'08, September, Kusadasi, Turkey.
31. Kurnaz, ML, Bilgin, T, and Aksan Kurnaz, I (2008). Robustness to alternate genetic code tables (a statistical analysis). Oral presentation, International Health Informatics and Bioinformatics, Turkey (HIBIT)'08, Istanbul.
32. Genc, S, Bal, E, Aksan Kurnaz, I, Ozilgen, M (2008). A preliminary Biochemical Model for Glucose-Lactate Metabolism in Neuron. Oral presentation, International Health Informatics and Bioinformatics, Turkey (HIBIT)'08, Istanbul.
33. Demir, O, and Aksan Kurnaz, I (2008). Elk-1 represses pro-apoptotic *egr-1* expression in SH-SY5Y neuroblastomas and mediates survival. Poster presentation, EMBO Young Scientists Forum, Turkey, February 2008, Istanbul
34. Yilmaz B, Demir O, Demirci Y, Aksan Kurnaz I, Sandal S (2008). Endocrine disruptive effects of organochlorinated pesticides in transfected MCF-7 breast cancer and rat hepatoma cells using luciferase assay. Poster presentation, 3rd Central and Eastern European Conference on Health and the Environment Ceeche – *The Environment, a Platform for Health*, October 2008, Romania.
35. Caglayan, B, Dedeagac, A, Gul, HI, Sahin, F, Aksan Kurnaz I (2007). The anti-proliferative effects of various drug candidates on neuroblastoma cells. Poster presentation, International Symposium on Pharmaceutical Chemistry (ISPC), Istanbul, Turkey.
36. Aksan Kurnaz, I, and Kurnaz, ML (2007). How “Evolved” is the standard genetic code? A statistical analysis of survivability. Poster presentation, European Conference on Complex Systems, ECCS'07, Dresden, Germany.

37. Gultepe, E, Aksan Kurnaz, I, Kurnaz, ML (2007). Statistical analysis of genetic information coding using different amino acid tables. Poster presentation, XXIII IUPAP International Conference on Statistical Physics (StatPhys23), Genova, Italy.
38. Gultepe, E, Aksan Kurnaz, I, Kurnaz, ML (2007). Statistical analysis of genetic information coding using different amino acid tables. Oral presentation, International Symposium on Health Informatics and Bioinformatics 2007 (HIBIT'07), Antalya, Turkey.
39. Aksan Kurnaz, I, Demir, O, Karabay Korkmaz, A. (2006) TCF family of transcription factors play a role in neuronal cell survival – a potential for neuroregeneration. Oral presentation, COST B-30, 2nd MC meeting, Carmona, Spain.
40. Demir, O, Kurnaz, ML, Aksan Kurnaz, I. (2006). Integrated study on Transcriptional Regulators of Neuronal Differentiation and Survival. Oral presentation, 2006 World Congress on Regenerative Medicine and Tissue Engineering, Pittsburgh, USA.
41. Aksan Kurnaz, I (Karabay A, Demir, O). (2006) Interaction of RSK2 with the Ets-domain transcription factor Elk-1. Poster presentation, 31st FEBS Congress – Molecules in Health and Disease, June 24-29, Istanbul, Turkey. **FEBS J** 273: 103 (suppl.), 2006.
42. Emir, UA and Aksan Kurnaz, I. (2003) Computational modeling of melanin biosynthesis and implications for melanoma-specific drug development. Poster presentation, International Symposium for Pharmaceutical Chemistry (ISPC) Abstract Book pp 212-213, Sept. 17-19, Istanbul, Turkey.
43. Aksan, I, Vickers, ER, Sharrocks, AD (2002) The Role of Ternary Complex Factors (TCFs) In Neuronal Survival. 28th FEBS meeting, Istanbul, 20 – 25 October.
Eur. J. Biochem. 269(s1): 74.
44. Aksan, I, Vickers, ER, Sharrocks, AD. (2002) The role of ternary complex factor subfamily of ETS domain transcription factors in cell survival. Poster presentation, Signaling and Cancer Conference, Abstract Book p 52, EMBL, Germany, 20 – 24 April.
45. Aksan, I, Sen, M, Araz, MK, and Kurnaz, ML.(2001) Computer Simulation of Differential Kinetics of MAPK activation upon EGF Receptor Overexpression. Poster presentation, 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 25 - 28 October. **Proc. 23rd Annual Intl Conf IEEE Eng in Med and Biol Soc**, Vol 1-4, (23): 2927-2930 pt1-4
46. Aksan, I. and Goding, C. R. (1998). The role of Microphthalmia (Mi) transcription factor in melanocyte differentiation. Poster presentation, Genes and Cancer Meeting, UKMBCN, UK (13 – 16 Dec).

National Meeting Abstracts

1. Kurnaz I (2015). "Nörojenez-nörodejenerasyon dengesi", Neuroscience Special Session; Invited Talk; August 2015, National Molecular Biology and Biotechnology Congress (UMBBK2015), Afyonkarahisar, Turkey

2. Kandemir B, Dag U, Durasi M, Gungor BB, Sezerman U, Yilmaz B, Aksan Kurnaz I (2015). "Microarray analysis of Pea3 transcription factor regulation in SH-SY5Y cells", Poster presentation, 13th National Neuroscience Congress (USK13), Konya, Turkey
3. Sahin E, Kandemir B, Yilmaz B, Aksan Kurnaz I (2015). "Gene regulation by Elk-1 in Neuronal cells under normoxic and hypoxic conditions", Poster presentation, 13th National Neuroscience Congress (USK13), Konya, Turkey
4. Aksan Kurnaz I (2015). "The role of Ets proteins in Neuronal survival, neurogenesis and learning", Invited talk, *Neurogenesis and Survival Mechanisms in Learning and Memory* symposium (org: I Kurnaz), 13th National Neuroscience Congress (USK13), Konya, Turkey
5. Kurnaz I (2014). "MAPK yolu ve Elk-1'in nörokorunma ve sağkalımdaki rolü"; Invited Talk; 22. Ulusal Biyoloji Kongresi, Eskisehir, June 2014.
6. Kurnaz I (2014). "Turkish Women in Life Sciences"; Invited Talk; AASSA and the Turkish Academy of Sciences (TUBA) Workshop on "Women in Science and Technology", Izmir, May 2014.
7. Kurnaz I (2014). "ETS bölgesi transkripsiyon faktörleri: nörojenez ve nörodejenerasyon"; Talk on Panel "Nörojenez, öğrenme ve nörodejenerasyon ekseninde ETS proteinleri"; 12. Ulusal Sinirbilim Kongresi, İstanbul, May 2014.
8. Kurnaz I (2013). "Elk-1'in beyin tümör çoğalmasındaki rolü – Aurora, Plk ve Cdk bağlantısı"; Invited Lecture; 21th National Electronmicroscopy Congress, Mersin, 2013.
9. Ari O, Kurnaz I (2013). "Elk-1 transkripsiyon faktörünün Aurora-A mitotik kinazı ile ilişkisi"; Oral presentation; 21th National Electronmicroscopy Congress, Mersin, 2013.
10. Kurnaz I (2013). "ETS proteinleri – nöronlarda ölüm/kalım kararı"; Oral presentation; Panel organizer; 11th National Neuroscience Congress (USK11), Izmir, 2013
11. Kurnaz I (2013). "Türkiye'deki Genç Sinirbilimciler"; Oral presentation; Panel organizer; 11th National Neuroscience Congress (USK11), Izmir, 2013.
12. Ari O, Demir O, Kurnaz I (2013). "Investigation of the interaction between Elk-1- and microtubule based motor proteins"; Poster presentation; 11th National Neuroscience Congress (USK11), Izmir, 2013.
13. Bitiktas S, Kavraal S, Kandemir B, Tan B, Liman N, Aksan Kurnaz I, Suer C (2013). "Deneysel hipertiroidi modelinde uzamsal öğrenme performansında cinsiyet bağımlı değişimeler ve hipokampal glutamat ve östrojen reseptörlerinin rolünün incelenmesi"; Poster presentation; 11th National Neuroscience Congress (USK11), Izmir, 2013.
14. Kon E, Kurnaz I (2013). "Expression analysis of transcription factor Elk-1"; Poster presentation; 11th National Neuroscience Congress (USK11), Izmir, 2013.
15. Kandemir B, Kurnaz I (2013). "Effect of Pea3 transcription factor on differentiation of motor neurons"; Poster presentation; 11th National Neuroscience Congress (USK11), Izmir, 2013.
16. Uçkaç PU, Kurnaz I (2013). "Elk-1 proteininin hipoksiye bağlı hücresel translokasyonu"; Poster presentation; 11th National Neuroscience Congress (USK11), Izmir, 2013.
17. Kurnaz I (2012). "Elk-1'in beyin tümör çoğalmasındaki rolü – aurora, Plk ve Cdk bağlantısı / The role of Elk-1 in brain tumor proliferation – the Aurora, plk and CDK connection"; Invited Lecture,

- Molecular Cancer Research Society of Turkey (MOKAD), IVth Multidisciplinary Cancer Research Congress; Bursa, December 2012.
- 18.Kurnaz I (2012). Hücre Ölümü Çalışmalarında Sinyal Yolakları; Invited Lecture, Cell Death Society (National) Cell Death Research Techniques Course; Eskisehir, November 2012.
- 19.Kurnaz I (2011). Hücre Ölümü Çalışmalarında Sinyal Yolakları; Invited Lecture, Cell Death Society (National) Cell Death Research Techniques Course; Izmir, November 2011.
- 20.Kurnaz, I (2011). Beyin tümörlerinde ETS bölgesi transkripsiyon faktörlerinin rolü. Panel Organization, Oral presentation, 10th National Neuroscience Congress, April 2011, Istanbul.
- 21.Alpay G, Aksan Kurnaz I (2011). Transcriptional activation of the copper-zinc superoxide dismutase gene by Elk-1. Poster presentation, 10th National Neuroscience Congress, April 2011, Istanbul.
- 22.Aysit N, Aksan Kurnaz I, Ozturk G (2011). Investigation of roles of transcription factors Elk-1, Elk-5p, Pea-3, SAP-1 and SRF proteins in axonal regeneration. Poster presentation, 10th National Neuroscience Congress, April 2011, Istanbul.
- 23.Caglayan B, Aksan Kurnaz I (2011). Identification of phosphorylation site specific kinases on pea3 transcription factor. Poster presentation, 10th National Neuroscience Congress, April 2011, Istanbul.
- 24.Demir O, Ari O, Aksan Kurnaz I (2011). The mitotic role of Elk-1 in brain tumors. Poster presentation, 15. Uludag Onkoloji Kongresi, Mart 2011. (**best poster award**)
- 25.Genc S, Aksan Kurnaz I, Ozilgen M (2010). "Astrosit-nöron laktat mekik modeli hipoksik durumda nörona daha fazla enerji sağlamaktadır – hesaplamalı ve deneysel parallel çalışma", Poster presentation, XXII. National Biochemistry Congress, Eskisehir, Turkey, October 2010.
- 26.Genc S, Aksan Kurnaz I, Ozilgen M (2010). "Sinir hücresi ve astrositlerdeki glikoz-laktat metabolizmasının bilgisayar destekli incelenmesi – *computer-aided analysis of glucose-lactate metabolism in neurons and astrocytes*", Oral presentation, 9th National Neuroscience Congress, April 2010, Istanbul
- 27.Demir O, Ozden A, Aksan Kurnaz I (2010). "Elk-1 mitoz ilişkisinin U87 gliyoblastom hucrelerinde incelenmesi – *analysis of Elk-1 mitosis relation in U87 glioblastoma cells*", Oral presentation, 9th National Neuroscience Congress, April 2010, Istanbul
- 28.Astrosit-nöron laktat mekik modeli hipoksik durumda nörona daha fazla enerji sağlamaktadır- hesaplamalı ve deneysel parallel çalışma. Genc S, Aksan Kurnaz I, Ozilgen M. Presentation- XXII. National Biochemistry Congress, Eskisehir, Turkey, October 2010.
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