

Gulayse Ince-Dunn

Assistant Professor
Koç University
Molecular Biology and Genetics Department
Istanbul, Turkey
Email: gdunn@ku.edu.tr
Phone: +90 212 338 1581
Web: neuro.ku.edu.tr

Education:

- (2007) Ph.D., Biochemistry, Cellular and Molecular Biology Program
Johns Hopkins University School of Medicine, U.S.A.
- (1999) M.S. in Molecular Biology and Genetics
Department of Molecular Biology and Genetics
Bilkent University, Turkey.
- (1997) B.S. in Biology
Department of Molecular Biology and Genetics,
Boğaziçi University, Turkey.

Academic Positions:

- (2009 -) Assistant Professor, Molecular Biology and Genetics Department,
Koç University, Turkey.
- (2006 - 2009) Post-doctoral Fellow, Rockefeller University, U.S.A.
Post-doctoral Advisor: Prof. Robert Darnell
Project: Control of transcript splicing and abundance by Hu (Elav)
RNA binding proteins.
- (1999 - 2006) Graduate Student, Department of Neuroscience, Johns
Hopkins School of Medicine, U.S.A.
Thesis Advisor: Prof. Anirvan Ghosh
Thesis: Regulation of cortical development by the transcription
factor NeuroD2.

- (1997 - 1999) Graduate Student, Department of Molecular Biology and Genetics, Bilkent University, Turkey.
Thesis Advisor: Prof. Mehmet Ozturk
Thesis: Characterization of programmed cell death induced by oxidative stress in selenium-deficient hepatocellular carcinoma cells.
- (1996) Research Trainee, Institute for Human Genetics, University of Gottingen, Germany.
Advisor: Prof. Wolfgang Engel
- (1995) Laboratory Technician, Experimental Medicine Division, Istanbul University, Turkey.

Awards:

The Turkish Academy of Sciences Young Scientist Award (2013).
Distinguished Instructor, Koç University College of Sciences for course "Advanced Studies in Cellular Signaling," Koç University (2013).
Distinguished Instructor, Koç University College of Sciences for course "Systems Biology," Koç University (2013).
Distinguished Instructor, Koç University College of Sciences for course "Principles of Neuroscience," Koç University (2012).
L'Oreal Women in Science Award (2011).
Women and Science Postdoctoral Fellowship, Rockefeller University (2008).
First Place Poster Award at Graduate Student Association Poster Session, Johns Hopkins University School of Medicine (2003).
Graduated in first place from Department of Molecular Biology and Genetics, Bilkent University (1999).
Poster Award at Turkish "National Cancer Congress," (1999).
Travel Award from Bilkent University (1999).
Travel Award from Sema Yazar Youth Foundation (1998).
Graduated in first place from Department of Molecular Biology and Genetics, Boğaziçi University (1997).
Fellowship from "The International Association for the Exchange of Students for Technical Experience" (1996).

Publications:

G. Guner, G. Guzelsoy, G. S. Sahin, E. Bayam, F. S. Isleyen, E. I. Kotan, A. Kabakcioglu, **G. Ince-Dunn**. NEUROD2-mediated inhibition of *Stim1* expression suppresses store-operated calcium entry in cortical neurons (Under revision).

E. Bayam, G. S. Sahin, G. Guzelsoy, G. Guner, A. Kabakcioglu, **G. Ince-Dunn**. (2015) Genome-wide target analysis of NeuroD2 provides new insights into regulation of cortical projection neuron migration and differentiation. *BMC Genomics*. 16:681.

G. Ince-Dunn, H. J. Okano, K. Jensen, W.Y. Park, Z. Ru, J. Ule, A. Mele, J. Fak, C.W. Yang, C. Zhang, H. Okano, J. Yoo, J. Noebels, R.B. Darnell. (2012) Neuronal Elav-like (Hu) proteins regulate RNA splicing and abundance to control glutamate levels and neuronal excitability. *Neuron*. 75(6): 1067-1081.

Featured video: <https://www.youtube.com/watch?v=GGZu-j76m7A>

P. Polleux, **G. Ince-Dunn**, A. Ghosh. (2007) Transcriptional regulation of axon guidance and synapse formation. *Nature Neuroscience Reviews*. 8(5): 331-40.

G. Ince-Dunn*, B.J. Hall*, S.C Hu, B. Ripley, R.L. Huganir, J.M. Olson, S.J. Tapscott, and A. Ghosh. (2006) Regulation of thalamocortical patterning and synaptic maturation by NeuroD2. *Neuron*. 49(5): 683-95. (*equal contribution).

H. Aizawa, S.C. Hu, K. Bobb, K. Balakrishnan, **G. Ince**, I. Gurevich, M. Cowan, A. Ghosh. (2004) Dendrite development regulated by CREST, a calcium-regulated transcriptional activator. *Science*. 303(5655):197-202.

M.B. Irmak, **G. Ince**, M. Ozturk, R. Cetin-Atalay. (2003) Acquired tolerance of hepatocellular carcinoma cells to selenium deficiency: a selective survival mechanism? *Cancer Research*. 63(20):6707-15.

B.S. Sayan, **G. Ince**, A.E. Sayan, M. Ozturk. (2001) NAPO as a novel marker for apoptosis. *J Cell Biol*. 155(5):719-24.

Manuscript Peer Review:

PLOS One (2015)

Functional and Integrative Genomics (2015, 2016)

Grant Review:

Turkish Scientific and Technological Research Council (TUBITAK), Turkey (2012-2015)

FWO, Research Foundation - Flanders, Belgium (2014)

ANR, French National Research Agency, France (2012, 2013)

Funding:

Short - term research and development funding, TUBITAK (2015-2016).

Turkey - Greece Joint Research and Technology Program, TUBITAK (2014 - 2016).

National Young Researcher Career Development Program, TUBITAK (2012 - 2015).

Framework Program 7 Marie Curie Reintegration Grant, EU (2010 - 2014).

Women and Science Postdoctoral Fellowship, Rockefeller University (2008).

Teaching Experience:

Instructor, "Developmental Neurobiology", Koç University (2014-2016).

Instructor, "Systems Biology", Koç University (2013 - 2015).

Instructor, "Studies in Advanced Cell Signaling", Koç University (2011 - 2013).

Instructor, "Principles of Neuroscience", Koç University (2011, 2012, 2014).

Instructor, "Life Sciences", Koç University (2011 - 2012).
Instructor, "Introduction to General Biology II", Koç University (2010 - 2011).
Instructor, "Introduction to General Biology I", Koç University (2009, 2012 - 2015).
Teaching Assistant, "Developmental Biology", Johns Hopkins University School of Medicine (2003).
Teaching Assistant, "Introduction to Genetics", Bilkent University (1999).
Teaching Assistant, "Molecular Biology", Bilkent University (1998).

Academic Services:

Animal Research Ethics Committee Member, Koç University (2014 -).
Undergraduate Research Program Coordinator, Koç University (2013 -).
Science College Seminar Series Organizer, Koç University (2011).
Molecular Biology and Genetics Graduate Program Coordinator, Koç University (2010 - 2013).
School of Medicine Faculty Search Committee, Koç University (2010 - 2012).
Freshman Advisor for Molecular Biology and Genetics Department, Koç University (2010 -).
Molecular Biology and Genetics Department Faculty Search Committee, Koç University (2009 -).
Founder of Molecular Biology and Genetics Department, Koç University (2009).

Invited Seminars:

Invited seminar, VIB Center for the Biology of Disease, K.U. Leuven, Center for Human Genetics, Belgium (2016).
Congress of Molecular Biology Association of Turkey, Middle Eastern Technical University, Ankara (2015).
Invited seminar, Biochemistry Department, Thessaloniki University, Greece (2015).
Undergraduate Molecular Biology and Genetics Congress, Istanbul Arel University (2015).
German-Turkish Workshop on Molecular Neurosciences, Boğaziçi University (2014).
National Neuroscience Congress, Ege University (2013).
Development and Function of the Nervous System Symposium, Boğaziçi University (2012).
German-Turkish Workshop on Molecular Neurosciences, Boğaziçi University (2012).
4th EMBO Meeting, Session on "post-transcriptional control of gene expression" , France (2012).
Development and Function of the Nervous System Symposium, Boğaziçi University (2011).
Bilkent University Department of Molecular Biology and Genetics (2009).
Izmir Institute of Technology Department of Molecular Biology and Genetics (2009).
Axon Guidance and Neural Plasticity Meeting, Cold Spring Harbor Laboratories (2004).
Developmental Biology Symposium, Salk Institute (2004).

Posters:

FENS Regional Neuroscience Meeting, Greece (2015).
Brain Wiring Meeting, Cold Spring Harbor Laboratories, New York (2015).

The Neurobiology of Synapses and their Dysfunction Meeting, Italy (2013).
4th EMBO Meeting, Nice (2012).
Society for Neuroscience Meeting, USA (2012).
Society for Neuroscience Meeting, USA (2003).
Society for Neuroscience Meeting, USA (2002).
Society for Neuroscience Meeting, USA (2001).
National Cancer Congress, Turkey (1999).

Professional Societies

Society For Neuroscience (2010 - present)
Turkish Molecular Biology Association (2015 – present)

Career Breaks

Birth of first child (6 weeks in 2008)
Birth of second child (4 months in 2010)