

Asst. Prof. ERSİN AKINCI

Personal Information

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International Researcher IDs

ORCID: 0000-0003-1463-2255

Publons / Web Of Science ResearcherID: K-8370-2012

Yoksis Researcher ID: 194032

Education Information

Doctorate, University of Minnesota, Twin Cities Campus, College Of Biological Sciences/Department Of Genetics, Cell Biology And Development, Stem Cell Institute , United States Of America 2007 - 2012

Postgraduate, Izmir Institute Of Technology, Faculty Of Science, Biyoloji/Moleküler Biyoloji Ve Genetik, Turkey 2003 - 2007

Undergraduate, Ege University, Faculty Of Science, Biyoloji/Zooloji, Turkey 1999 - 2003

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Reprogramming of Different Cell Types into Pancreatic Beta Cells by using Transcription Factor Genes Pdx1, Ngn3 and MafA, University of Minnesota, Twin Cities Campus, College Of Biological Sciences, Department Of Genetics, Cell Biology And Development, Stem Cell Institute, 2012

Postgraduate, Identification and Characterization of Boron Tolerant Genes in Hordeum Vulgare (Barley) by using mRNA Differential Display and RT-PCR Techniques, Izmir Institute Of Technology, Fen Fakültesi, Biyoloji/Moleküler Biyoloji Ve Genetik, 2003

Research Areas

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

Academic Titles / Tasks

Assistant Professor, Akdeniz University, Faculty of Agriculture, Department of Agricultural Biotechnology, 2018 - Continues

Assistant Professor, Akdeniz University, Faculty of Agriculture, Department of Agricultural Biotechnology, 2013 - 2018
Research Assistant, University of Minnesota, Twin Cities Campus, College Of Biological Sciences, Department Of Genetics,

Cell Biology And Development, Stem Cell Institute, 2007 - 2012

Research Assistant, Izmir Institute Of Technology, Faculty Of Science, Biyoloji/Moleküler Biyoloji Ve Genetik, 2005 - 2007

Academic and Administrative Experience

Akdeniz University, Faculty of Agriculture, Department of Agricultural Biotechnology, 2013 - Continues

Courses

Molecular Biology and Genetics, Postgraduate, 2014 - 2015

Advanced Cellular Biology, Postgraduate, 2014 - 2015

Moleküler Biyoloji ve Genetik, Postgraduate, 2014 - 2015

İleri Hücre Biyolojisi, Postgraduate, 2014 - 2015

Biyokimya, Undergraduate, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Microglia cells treated with synthetic vasoactive intestinal peptide or transduced with LentiVIP protect neuronal cells against degeneration**
Goksu A. Y., Kocanci F. G., Akinci E., DEMİR DORA D., Erendor F., ŞANLIOĞLU S., UYSAL H.
European Journal of Neuroscience, vol.59, no.8, pp.1993-2015, 2024 (SCI-Expanded)
- II. **Peptide fusion improves prime editing efficiency**
Velimirovic M., Zanetti L. C., Shen M. W., Fife J. D., Lin L., Cha M., Akinci E., Barnum D., Yu T., Sherwood R. I.
Nature Communications, vol.13, no.1, 2022 (SCI-Expanded)
- III. **Using CRISPR to understand and manipulate gene regulation**
Akinci E., Hamilton M. C., Khowpinitchai B., Sherwood R.
DEVELOPMENT, vol.148, no.9, 2021 (SCI-Expanded)
- IV. **Extraction of phenolic acids from ancient wheat bran samples by ultrasound application**
CENGİZ M. F., BABACAN U., AKINCI E., TUNCER KESCI S., KABA A.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.96, no.1, pp.134-141, 2021 (SCI-Expanded)
- V. **A Plant-Produced in vivo deglycosylated full-length Pfs48/45 as a Transmission-Blocking Vaccine Candidate against malaria.**
MAMEDOV T., CICEK K., MIURA K., GULEC B., AKINCI E., MAMMADOVA G., HASANOVA G.
Scientific reports, vol.9, no.1, pp.9868, 2019 (SCI-Expanded)
- VI. **In vitro transcription and validation of human pancreatic transcription factors' mRNAs**
AKINCI E., Yıldız M., Ünal P., BADAĞUL G.
TURKISH JOURNAL OF BIOLOGY, vol.41, no.5, pp.708-718, 2017 (SCI-Expanded)
- VII. **Stage specific reprogramming of mouse embryo liver cells to a beta cell-like phenotype**
Yang Y., AKINCI E., Dutton J. R., Banga A., Slack J. M. W.
MECHANISMS OF DEVELOPMENT, vol.130, no.11-12, pp.602-612, 2013 (SCI-Expanded)
- VIII. **Reprogramming of Various Cell Types to a Beta-Like State by Pdx1, Ngn3 and MafA**
AKINCI E., Banga A., Tungatt K., Segal J., Eberhard D., Dutton J. R., Slack J. M. W.
PLOS ONE, vol.8, no.11, 2013 (SCI-Expanded)
- IX. **In vivo reprogramming of Sox9(+) cells in the liver to insulin-secreting ducts**
Banga A., AKINCI E., Greder L. V., Dutton J. R., Slack J. M. W.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.109, no.38, pp.15336-15341, 2012 (SCI-Expanded)
- X. **Reprogramming of pancreatic exocrine cells towards a beta (beta) cell character using Pdx1, Ngn3**

and MafA

AKINCI E., Banga A., Greder L. V., Dutton J. R., Slack J. M. W.
BIOCHEMICAL JOURNAL, vol.442, pp.539-550, 2012 (SCI-Expanded)

- XI. **Proteomic changes during boron tolerance in barley (*Hordeum vulgare*) and the role of vacuolar proton-translocating ATPase subunit E**
ATIK A. E., BOZDAG G. O., Akinci E., KAYA A., KOC A., YALCIN T., KARAKAYA H. C.
TURKISH JOURNAL OF BOTANY, vol.35, no.4, pp.379-388, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Antiproliferative Effect of *Epilobium parviflorum* Extracts on Colorectal Cancer Cell Line HT-29**
AKBUDAK M. A., SUT T., ERUYGUR N., AKINCI E.
Romanian Biotechnological Letters, 2021 (Peer-Reviewed Journal)
- II. **Optimization of some parametric values of MTT for the determination of human melanoma (SK-Mel-30) cell viability**
Babacan Ü., Kaba A., Akçakale F., Akinci E., Cengiz M. F.
International Journal of Life Sciences and Biotechnology, vol.5, no.1, pp.9-20, 2021 (Peer-Reviewed Journal)
- III. **DZNep Does Not Influence Autophagy Gene Expression in the Colon Cancer Cell Line HT-29**
KOCA T., AKINCI E., ÜNAL B., BAŞSORGUN C. İ., ELPEK G. Ö.
Akdeniz Medical Journal, vol.5, pp.521-525, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Liquid versus Semi-Solid Culture Medium for Differentiation of Human Mast Cells from Hematopoietic Stem Cells in Bone Marrow. [J Clin Immunol 40, 1–163 (2020)]. pages:33-34**
GÖKSU EROL A. Y., AKINCI E., UYSAL H., DEMİR DORA D., SALİM O.
2020 CIS Annual Meeting: Immune Deficiency Dysregulation North American Conference., Colorado-Denver, United States Of America, 2 - 05 April 2020, vol.40, pp.1-163
- II. **The Key roles of 'IL-3' and 'Supporting Cells' for In vitro Generation of Mast Cells and Dendritic Cells from Human Bone Marrow. [J Clin Immunol 40, 1–163 (2020)]**
GÖKSU EROL A. Y., AKINCI E., UYSAL H., DEMİR DORA D., SALİM O.
2020 CIS Annual Meeting: Immune Deficiency & Dysregulation North American Conference., Denver, United States Of America, 2 - 05 April 2020, vol.40 (Suppl), pp.140-141
- III. **Liquid versus Semi-Solid Culture Medium for Differentiation of Human Mast Cells from Hematopoietic Stem Cells in Bone Marrow**
Goksu-Erol A. Y., AKINCI E., UYSAL H., DEMİR DORA D., SALİM O.
Annual Meeting of the Clinical-Immunology-Society (CIS) / Immune Deficiency and Dysregulation North American Conference, Colorado, United States Of America, 2 - 05 April 2020, vol.40
- IV. **The Key roles of 'IL-3' and 'Supporting Cells' for In vitro Generation of Mast Cells and Dendritic Cells from Human Bone Marrow**
Goksu-Erol A. Y., AKINCI E., UYSAL H., DEMİR DORA D., SALİM O.
Annual Meeting of the Clinical-Immunology-Society (CIS) / Immune Deficiency and Dysregulation North American Conference, Colorado, United States Of America, 2 - 05 April 2020, vol.40
- V. **Variations of Ferulic Acid in Traditional Turkish Wheat Species**
BABACAN Ü., AKINCI E., KEŞÇİ S., CENGİZ M. F., KABA A., AKAR T.
International 8. Drug Chemistry Conference, Antalya, Turkey, 28 February - 01 March 2020
- VI. **Variations of Ferulic Acid in Traditional Turkish Wheat Species**
BABACAN Ü., AKINCI E., KEŞÇİ S., CENGİZ M. F., KABA A., AKAR T.
International 8. Drug Chemistry Conference, Antalya, Turkey, 28 February - 01 March 2020

- VII. **Cell Viability Effects of Ferulic Acid on Melanoma Cell Line (SK-MEL-30)**
BABACAN Ü., AKINCI E., KABA A., AKÇAKALE F., CENGİZ M. F.
International 8. Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 April 2020
- VIII. **Cell Viability Effects of Ferulic Acid on Melanoma Cell Line (SK-MEL-30)**
BABACAN Ü., AKINCI E., KABA A., AKÇAKALE F., CENGİZ M. F.
International 8. Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 March 2020
- IX. **Cell Viability Effects of Ferulic Acid on Melanoma Cell Line (SK-MEL-30)**
BABACAN Ü., AKINCI E., KABA A., AKÇAKALE F., CENGİZ M. F.
International 8. Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 March 2020
- X. **Variations of Ferulic Acid in Traditional Turkish Wheat Species"**
BABACAN Ü., AKINCI E., Tuncer Keşçi S., CENGİZ M. F., KABA A., AKAR T.
International 8. Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 April 2020
- XI. **Resistance in human foreskin fibroblasts against lipofectamine-aided transfection of CoMiP plasmids**
YILMAZ O., SEKER G., AKINCI E., ALTUNBAS H. A., ŞANLIOĞLU A. D.
ESGCT 27th Annual Congress in collaboration with SETGyc Meeting, Barcelona, Spain, 22 - 25 October 2019, vol.30
- XII. **Crispr/dCas9 and gene activation**
AKINCI E., Unal P., Badakul G., YILDIZ M.
European Biotechnology Congress, Dubrovnik, Croatia, 25 - 27 May 2017, vol.256
- XIII. **In vitro synthesis of redesigned pancreatic mRNAs: A current approach for gene delivery**
AKINCI E., YILDIZ M., UNAL P.
European Biotechnology Conference, Latvia, 5 - 07 May 2016, vol.231
- XIV. **Induction of Insulin Production in the Liver by Beta Cell Transcription Factors**
Banga A., Dutton J. R., AKINCI E., Greder L. V., Slack J. M. W.
70th Annual Meeting of the American-Diabetes-Association, Orlanda, United States Of America, 25 - 29 June 2010, vol.59

Supported Projects

CENGİZ M. F., AKINCI E., Kaba A., Project Supported by Higher Education Institutions, Pankreatik Genlerin CRISPR Yöntemi ile Aktivasyonu Esnasında Farklı dCas9-Aktivatör Komplekslerinin Karşılaştırılması, 2020 - 2021

CENGİZ M. F., AKINCI E., BABACAN Ü., KABA A., Project Supported by Higher Education Institutions, Tarihsel kavuzlu buğday (Siyez ve Gernik) hatlarındaki fenolik asitlerin insan melanoma kanserojenik hücrelerinde (SK-MEL-30) antikanserojenik etkilerinin belirlenmesi, 2019 - 2020

SAKINCI M., DÖNMEZ L., ALAAMEL A., ERTÜRK O. K., GÖKSU EROL A. Y., ÖZDEM S., ÖZEKİNCİ M., OLGAN Ş., DİRİCAN E. K., AKINCI E., et al., Project Supported by Higher Education Institutions, IVF Hastalarında Folikül Gelişimi ve Anjiyogenez ile ilişkili Parakrin Faktörlerin AMH BMP6 FGF2 VEGFA ve IGF1 Düzeylerinin Embriyo Morfokinetikleri ve Gebelik oranları ile ilişkisinin araştırılması, 2018 - 2020

AKBUDAK M. A., AKINCI E., SÜT T., Project Supported by Higher Education Institutions, Epilobium parviflorum Schreb ekstraktının farklı kanser hücre hatları üzerindeki terapötik etkileri, 2018 - 2019

Metrics

Publication: 28

Citation (WoS): 214

Citation (Scopus): 245

H-Index (WoS): 6

H-Index (Scopus): 7

Congress and Symposium Activities

International Molecular Biology and Genetics Student Congress' 17, Attendee, İstanbul, Turkey, 2017

International Molecular Biology and Genetics Student Congress' 17, Invited Speaker, İstanbul, Turkey, 2017

European Biotechnology Congress, Attendee, Dubrovnik, Croatia, 2017

Diyabet ve Tedavide Moleküler Yaklaşımlar, Attendee, İstanbul, Turkey, 2016

Diyabet ve Tedavide Moleküler Yaklaşımlar, Invited Speaker, İstanbul, Turkey, 2016

European Biotechnology Congress, Attendee, Rīga, Latvia, 2016

III. International Congress of the Molecular Biology Association, Attendee, İzmir, Turkey, 2014

Scholarships

Yurt Dışı (ABD) Doktora Eğitim Bursu, University, 2007 - Continues

Awards

AKINCI E., Finalist for Outstanding Teaching Assistant Award, University of Minnesota, College of Biological Sciences, September 2009