

Prof. ŞERMIN GENÇ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-5348-2019

ScopusID: 7005739677

Yoksis Researcher ID: 2453

Education Information

Doctorate, Dokuz Eylül University, Sağlık Bilimleri Enstitüsü, Tıbbi Biyoloji Ve Genetik (Dr), Turkey 1999 - 2003

Expertise In Medicine, Dokuz Eylül University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, Turkey 1993 - 1998

Undergraduate, Ege University, Faculty Of Medicine, Tıp Pr., Turkey 1986 - 1992

Dissertations

Doctorate, Erken yaş başlangıçlı parkinson hastalarında parkin gen mutasyonlarının belirlenmesi, Dokuz Eylül University, Sağlık Bilimleri Enstitüsü, Tıbbi Biyoloji Ve Genetik (Dr), 2003

Research Areas

Life Sciences, Molecular Biology and Genetics, Neurobiology, Natural Sciences

Academic Titles / Tasks

Professor, Dokuz Eylül University, Sağlık Bilimleri Enstitüsü, 2012 - Continues

Associate Professor, Dokuz Eylül University, Sağlık Hizmetleri Meslek Yüksekokulu, Sağlık Hizmetleri Meslek Yüksekokulu, 2006 - 2012

Academic and Administrative Experience

Dokuz Eylül University, 2015 - Continues

Dokuz Eylül University, 2010 - 2013

Courses

Bir Araştırmayı Yayına Dönüşürme Süreci, Doctorate, 2022 - 2023

Uzmanlık Alanı, Doctorate, 2022 - 2023, 2021 - 2022

Uzmanlık Alanı, Postgraduate, 2021 - 2022

Tez çalışması, Doctorate, 2022 - 2023, 2021 - 2022

Uzmanlık Alanı, Doctorate, 2022 - 2023, 2021 - 2022

Kodlamayan RNA ve Beyin, Doctorate, 2021 - 2022

Teze İlişkin Araştırma Konuları II, Doctorate, 2021 - 2022

Tez Çalışması, Postgraduate, 2021 - 2022

Seminer, Doctorate, 2022 - 2023

Advising Theses

GENÇ Ş., Bilirubinin NLRP3 inflamazom aktivasyonu üzerine in vivo ve in vitro etkisi, Doctorate, İ.ERCAN(Student), 2023

Genç Ş., Zebrabalığında in vivo redoks modulasyonunun nörogenez üzerine etkisi, Doctorate, D.ENGÜR(Student), 2022

Genç Ş., M2 polarize mikroglia kökenli eksozomal miR-191-5p'nin oksidatif stres aracılı nöronal hasar üzerindeki nöroprotektif etkilerinin incelenmesi, Postgraduate, Ç.NİĞDE(Student), 2022

Genç Ş., Investigation of alterations created by NLRP3 activation on perineuronal nets, Doctorate, E.TARAKÇIOĞLU(Student), 2022

Genç Ş., Ekzozomal miR-34a Aracılığıyla Mikroglia – Nöron Etkileşimi, Postgraduate, N.SATI(Student), 2021

GENÇ Ş., Alzheimer hastalığının tanısında ve yayılımında nöron kökenli ekzozomlar, Postgraduate, D.YAĞMUR(Student), 2020

GENÇ Ş., Mikroglial hücrelerde dietil maleat'in NLRP3 inflamazom aktivasyonu üzerine etkilerinin araştırılması, Postgraduate, Ç.KİSER(Student), 2020

GENÇ Ş., MicroRNA mediated regulation of NLRP3 inflammasome in N9 microglia through AMPK-SIRT1 pathway, Postgraduate, B.İREM(Student), 2020

GENÇ Ş., The effects of ethyl pyruvate on NLRP3 inflammasome activation in microglial cells, Postgraduate, İ.NUR(Student), 2019

GENÇ Ş., Studies Toward the Development of Extracellular Vesicle Profiling and Sensor System, Doctorate, M.SALİH(Student), 2019

GENÇ Ş., Development of biomarkers for alzheimer's and parkinson's diseases, Doctorate, E.EREN(Student), 2018

GENÇ Ş., The effects of dimethyl fumarate on nlrp3 inflammasome activation in microglial cells, Postgraduate, B.TAŞTAN(Student), 2018

GENÇ Ş., Analyzing mirna expression changes in bipolar disorder patientspecific induced pluripotent stem cells (iPSC)., Doctorate, B.ALURAL(Student), 2018

GENÇ Ş., Elucidation of Nickel Tolerance Mechanisms in Puccinellia distans (Jacq.) Parl. Using a Transcriptomic Approach, Doctorate, M.DİRENÇ(Student), 2017

GENÇ Ş., The effects of melatonin on inflammasome activation in microglial cells, Postgraduate, B.İBRAHİM(Student), 2017

GENÇ Ş., Confirmation of presence of known erythropoietin receptors in gbm cells and further investigating effect of erythropoietin in proliferation, invasion, migration and angiogenesis, Postgraduate, Z.ÖZGE(Student), 2017

GENÇ Ş., Investigation of dedifferentiation capacity of astrocytes generated from murine embryonic stem cells, Doctorate, K.UĞUR(Student), 2017

GENÇ Ş., Role of tnf related apoptosis inducing ligand (TRAIL) in ischemic stroke, Doctorate, U.VURGUN(Student), 2016

KUTLUK M. K., GENÇ Ş., Trail level in ischemic stroke, Expertise In Medicine, O.YİĞİTASLAN(Student), 2015

GENÇ Ş., The investigation of the effect of erythropoietin on the signaling mechanism of SHSY-5Y cell line by proteomic method, Doctorate, Z.ERBAYRAKTAR(Student), 2014

GENÇ Ş., The effect of erythropoietin on MRMA level in shsy-5y cell line by microarray, Doctorate, Z.FİLİZ(Student), 2013

GENÇ Ş., Development of new biomarkers in alzheimer?s disease: MicroRNA analysis from serum, Postgraduate, M.GÜLFEM(Student), 2012

GENÇ Ş., The effect of Visfatin -948 G-T polymorphism in predisposition for Alzheimer?s Disease, Postgraduate,

U.VURGUN(Student), 2011

GENÇ S., Effect of erythropoietin on the microRNA expression levels of SH-SY5Y cell line, Postgraduate,

D.TUNALI(Student), 2011

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, June, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A New Perspective on the Pathogenesis of Infantile Colic: Is Infantile Colic a Biorhythm Disorder?**
Ucuncu Egeli T., Tufekci K. U., Ural C., Durur D. Y., Erdogan F., Cavdar Z., Genc S., Keskinoglu P., Duman N., Ozkan H.
Journal of Pediatric Gastroenterology and Nutrition, vol.77, no.2, pp.171-177, 2023 (SCI-Expanded)
- II. **Bilirubin induces microglial NLRP3 inflammasome activation in vitro and in vivo**
Ercan I., CİLAKER MIÇILI S., Soy S., Engur D., Tufekci K. U., Kumral A., GENÇ S.
Molecular and Cellular Neuroscience, vol.125, 2023 (SCI-Expanded)
- III. **Proximity extension assay-based proteomics studies in neurodegenerative disorders and multiple sclerosis**
Arioz B. I., Cotuk A., Yaka C. E., GENÇ S.
European Journal of Neuroscience, 2023 (SCI-Expanded)
- IV. **Hydrogen peroxide signaling modulates neuronal differentiation <i>via</i> microglial polarization and Wnt/β- catenin pathway**
Engur D., Ercan I., Kiser C., Tufekci K., Soy S., Micili S., Ozhan G., Guven S., Kumral A., GENÇ S.
EUROPEAN REVIEW FOR MEDICAL AND PHARMACOLOGICAL SCIENCES, no.11, pp.5083-5096, 2023 (SCI-Expanded)
- V. **Nrf2 activator Diethyl Maleate attenuates ROS mediated NLRP3 inflammasome activation in murine microglia**
Kiser C., Gonul C. P., GENÇ S.
Cytotechnology, 2023 (SCI-Expanded)
- VI. **Melatonin Alters the miRNA Transcriptome of Inflammasome Activation in Murine Microglial Cells**
Tarakcioglu E., Tastan B., Arioz B., Tufekci K. U., Genc S.
NEUROCHEMICAL RESEARCH, vol.47, no.10, pp.3202-3211, 2022 (SCI-Expanded)
- VII. **In vitro effects of H2O2 on neural stem cell differentiation**
Elutan B. I., Kiser C., Ercan I., Tufekci K. U., Engur D., GENÇ S., KUMRAL A.
IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-ANIMAL, vol.58, no.9, pp.810-816, 2022 (SCI-Expanded)
- VIII. **Pros and cons of NRF2 activation as adjunctive therapy in rheumatoid arthritis.**
Manda G., Milanesi E., Genc S., Niculite C. M., Neagoe I. V., Tastan B., Dragnea E. M., Cuadrado A.
Free radical biology & medicine, vol.190, pp.179-201, 2022 (SCI-Expanded)
- IX. **Alteration of miRNAs in Small Neuron-Derived Extracellular Vesicles of Alzheimer's Disease Patients and the Effect of Extracellular Vesicles on Microglial Immune Responses.**

- Durur D. Y., Tastan B., Tufekci K. U., Olcum M., Uzuner H., Karakulah G., YENER G., Genc S.
Journal of molecular neuroscience : MN, vol.72, no.6, pp.1182-1194, 2022 (SCI-Expanded)
- X. Targeting NLRP3 Inflammasome With Nrf2 Inducers in Central Nervous System Disorders.
Tastan B., Ariož B. I., Genc S.
Frontiers in immunology, vol.13, pp.865772, 2022 (SCI-Expanded)
- XI. Resveratrol Inhibits NLRP3 Inflammasome-Induced Pyroptosis and miR-155 Expression in Microglia Through Sirt1/AMPK Pathway
Tufekci K. U., Eltutan B. I., Isçi K. B., Genc S.
NEUROTOXICITY RESEARCH, vol.39, no.6, pp.1812-1829, 2021 (SCI-Expanded)
- XII. Inhibitory effects of sulforaphane on NLRP3 inflammasome activation
Kiser C., Gonul C. P., Olcum M., GENÇ S.
MOLECULAR IMMUNOLOGY, vol.140, pp.175-185, 2021 (SCI-Expanded)
- XIII. Dimethyl Fumarate Alleviates NLRP3 Inflammasome Activation in Microglia and Sickness Behavior in LPS-Challenged Mice
Tastan B., Ariož B. I., Tufekci K. U., Tarakcioglu E., Gonul C. P., Genc K., Genc S.
FRONTIERS IN IMMUNOLOGY, vol.12, 2021 (SCI-Expanded)
- XIV. The Role of Melatonin on NLRP3 Inflammasome Activation in Diseases
Ariož B. I., Tarakcioglu E., Olcum M., GENÇ S.
ANTIOXIDANTS, vol.10, no.7, 2021 (SCI-Expanded)
- XV. Antiviral microRNA expression signatures are altered in subacute sclerosing panencephalitis
Tufekci K. U., Allmer J., Carman K. B., BAYRAM E., TOPÇU Y., Hiz S., GENÇ S., YİŞ U.
NEUROLOGICAL SCIENCES AND NEUROPHYSIOLOGY, vol.38, no.3, pp.166-172, 2021 (SCI-Expanded)
- XVI. Proteome profiling of neuron-derived exosomes in Alzheimer's disease reveals hemoglobin as a potential biomarker
Ariož B. I., Tufekci K. U., Olcum M., Durur D. Y., Akarlar B. A., Ozlu N., Bagriyanik H. A., Keskinoglu P., Yener G., Genc S.
NEUROSCIENCE LETTERS, vol.755, 2021 (SCI-Expanded)
- XVII. Ethyl Pyruvate Attenuates Microglial NLRP3 Inflammasome Activation via Inhibition of HMGB1/NF- κ B/miR-223 Signaling.
Olcum M., Tufekci K. U., Durur D. Y., Tastan B., Gokbayrak I. N., Genc K., Genc S.
Antioxidants (Basel, Switzerland), vol.10, no.5, 2021 (SCI-Expanded)
- XVIII. Lithium inhibits oxidative stress-induced neuronal senescence through miR-34a.
Tufekci K. U., Alural B., Tarakcioglu E., San T., Genc S.
Molecular biology reports, vol.48, no.5, pp.4171-4180, 2021 (SCI-Expanded)
- XIX. Sulforaphane inhibits NLRP3 inflammasome activation in microglia through Nrf2-mediated miRNA alteration.
Tufekci K. U., Ercan I., Isçi K. B., Olcum M., Tastan B., Gonul C. P., Genc K., Genc S.
Immunology letters, vol.233, pp.20-30, 2021 (SCI-Expanded)
- XX. Oxygen exposure in early life activates NLRP3 inflammasome in mouse brain
CİLAKER MIÇILI S., Engur D., GENÇ S., Ercan I., Soy S., Baysal B., KUMRAL A.
NEUROSCIENCE LETTERS, vol.738, 2020 (SCI-Expanded)
- XXI. Inhibitory effects of phytochemicals on NLRP3 inflammasome activation: A review
Olcum M., Tastan B., Ercan I., Eltutan I. B., GENÇ S.
PHYTOMEDICINE, vol.75, 2020 (SCI-Expanded)
- XXII. Circulating exosomal microRNAs in bipolar disorder
Ceylan D., Tufekci K. U., Keskinoglu P., Genç S., Ozerdem A.
JOURNAL OF AFFECTIVE DISORDERS, vol.262, pp.99-107, 2020 (SCI-Expanded)
- XXIII. Microglial NLRP3 inflammasome activation in multiple sclerosis.
Olcum M., Tastan B., Kiser C., Genc S., Genc K.
Advances in protein chemistry and structural biology, vol.119, pp.247-308, 2020 (SCI-Expanded)
- XXIV. Examination of IL-1 beta level as an inflammasome marker in Alzheimer's disease

- Bulut O., Tanburoglu A., Boluk G., Demir N., Eren E., Vurgun U., GENÇ Ş., Yener G.
NEUROLOGICAL SCIENCES AND NEUROPHYSIOLOGY, vol.36, no.3, pp.141-147, 2019 (SCI-Expanded)
- XXV. **Melatonin Attenuates LPS-Induced Acute Depressive-Like Behaviors and Microglial NLRP3 Inflammasome Activation Through the SIRT1/Nrf2 Pathway**
Arioz B., Tastan B., Tarakcioglu E., Tufekci K. U., Olcum M., Ersoy N., BAĞRIYANIK H. A., Genc K., GENÇ Ş.
FRONTIERS IN IMMUNOLOGY, vol.10, 2019 (SCI-Expanded)
- XXVI. **Stem Cell Therapy for Multiple Sclerosis**
Genc B., Bozan H. R., GENÇ Ş., Genc K.
TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.1084, pp.145-174, 2019 (SCI-Expanded)
- XXVII. **Follow-up Analysis of Serum TNF-Related Apoptosis-Inducing Ligand Protein and mRNA Expression in Peripheral Blood Mononuclear Cells from Patients with Ischemic Stroke**
Tufekci K. U., Vurgun U., Yigitaslan O., Keskinoglu P., Yaka E., Kutluk M. K., Genç Ş.
FRONTIERS IN NEUROLOGY, vol.9, 2018 (SCI-Expanded)
- XXVIII. **Sulforaphane Inhibits Lipopolysaccharide-Induced Inflammation, Cytotoxicity, Oxidative Stress, and miR-155 Expression and Switches to Mox Phenotype through Activating Extracellular Signal-Regulated Kinase 1/2-Nuclear Factor Erythroid 2-Related Factor 2/Antioxidant Response Element Pathway in Murine Microglial Cells**
Eren E., Tufekci K. U., Isci K. B., Tastan B., Genc K., GENÇ Ş.
FRONTIERS IN IMMUNOLOGY, vol.9, 2018 (SCI-Expanded)
- XXIX. **Peptide Derivatives of Erythropoietin in the Treatment of Neuroinflammation and Neurodegeneration**
Ercan I., Tufekci K. U., Karaca E., GENÇ Ş., Genc K.
THERAPEUTIC PROTEINS AND PEPTIDES, vol.112, pp.309-357, 2018 (SCI-Expanded)
- XXX. **Proteomic analysis of erythropoietin-induced changes in neuron-like SH-SY5Y cells**
Erbayraktar Z., Onkal Z., Genc K. K., GENÇ Ş.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGİSİ, vol.42, no.2, pp.213-221, 2017 (SCI-Expanded)
- XXXI. **MicroRNA exocytosis by large dense-core vesicle fusion**
Gumurdur A., Yildiz R., Eren E., KARAKÜLAH G., Unver T., GENÇ Ş., Park Y.
SCIENTIFIC REPORTS, vol.7, 2017 (SCI-Expanded)
- XXXII. **Diagnostic and therapeutic potential of microRNAs in neuropsychiatric disorders: Past, present, and future**
Alural B., GENÇ Ş., Haggarty S. J.
PROGRESS IN NEURO-PSYCHOPHARMACOLOGY & BIOLOGICAL PSYCHIATRY, vol.73, pp.87-103, 2017 (SCI-Expanded)
- XXXIII. **Stem Cell-Based Approaches for Treatment of Glioblastoma**
Erkan E. P., Eren E., GENÇ Ş., Genc K. K.
NEUROLOGICAL REGENERATION, pp.65-82, 2017 (SCI-Expanded)
- XXXIV. **Erythropoietin Promotes Glioblastoma via miR-451 Suppression**
Alural B., Ayyildiz Z. O., Tufekci K. U., GENÇ Ş., Genc K.
ERYTHROPOIETIN, vol.105, pp.249-271, 2017 (SCI-Expanded)
- XXXV. **Improved Cerebrospinal Fluid-Based Discrimination between Alzheimer's Disease Patients and Controls after Correction for Ventricular Volumes**
van Doorn L. J. C. v. W., Gispert J. D., Kuiperij H. B., Claassen J. A. H. R., Arighi A., Baldeiras I., Blennow K., Bozzali M., Castelo-Branco M., Cavedo E., et al.
JOURNAL OF ALZHEIMERS DISEASE, vol.56, no.2, pp.543-555, 2017 (SCI-Expanded)
- XXXVI. **Validation of a quantitative cerebrospinal fluid alpha-synuclein assay in a European-wide interlaboratory study**
Kruse N., Persson S., Alcolea D., Bahl J. M. C., Baldeiras I., Capello E., Chiasserini D., Chiavetto L. B., Emersic A., Engelborghs S., et al.
NEUROBIOLOGY OF AGING, vol.36, no.9, pp.2587-2596, 2015 (SCI-Expanded)
- XXXVII. **A practical guide to immunoassay method validation**

- Andreasson U., Perret-Liaudet A., van Doorn L. J. C. v. W., Blennow K., Chiasserini D., Engelborghs S., Fladby T., GENÇ Ş., Kruse N., Kuiperen H. B., et al.
FRONTIERS IN NEUROLOGY, vol.6, 2015 (SCI-Expanded)
- XXXVIII. **Lithium protects against paraquat neurotoxicity by NRF2 activation and miR-34a inhibition in SH-SY5Y cells**
Alural B., Ozerdem A., Allmer J., Genc K., GENÇ Ş.
Frontiers in Cellular Neuroscience, vol.9, 2015 (SCI-Expanded)
- XXXIX. **Expression Patterns of Micro-RNAs 146a, 181a, and 155 in Subacute Sclerosing Panencephalitis**
YİŞ U., Tufekci U. K., GENÇ Ş., ÇARMAN K. B., Bayram E., Topcu Y., Kurul S. H.
JOURNAL OF CHILD NEUROLOGY, vol.30, no.1, pp.69-74, 2015 (SCI-Expanded)
- XL. **Does Caffeine Consumption Modify Cerebrospinal Fluid Amyloid-beta Levels in Patients with Alzheimer's Disease?**
Travassos M., Santana I., Baldeiras I., Tsolaki M., Gkatzima O., GENÇ Ş., Yener G. G., Simonsen A., Hasselbalch S. G., Kapaki E., et al.
JOURNAL OF ALZHEIMERS DISEASE, vol.47, no.4, pp.1069-1078, 2015 (SCI-Expanded)
- XLI. **EPO mediates neurotrophic, neuroprotective, anti-oxidant and anti-apoptotic effects via downregulation of miR-451 and miR-885-5p in SH-SY5Y neuron-like cells**
Alural B., Duran G. A., Tufekci K. U., Allmer J., Onkal Z., Tunali D., Genc K., GENÇ Ş.
FRONTIERS IN IMMUNOLOGY, vol.5, 2014 (SCI-Expanded)
- XLII. **The Role of MicroRNAs in Human Diseases**
Tufekci K. U., Oner M. G., Meuwissen R. L. J., GENÇ Ş.
MIRNOMICS: MICRORNA BIOLOGY AND COMPUTATIONAL ANALYSIS, vol.1107, pp.33-50, 2014 (SCI-Expanded)
- XLIII. **The Role of MicroRNAs in Biological Processes**
Tufekci K. U., Meuwissen R. L. J., GENÇ Ş.
MIRNOMICS: MICRORNA BIOLOGY AND COMPUTATIONAL ANALYSIS, vol.1107, pp.15-31, 2014 (SCI-Expanded)
- XLIV. **Neurodegenerative Disease Phenotypes in Carriers of MAPT p.A152T, A Risk Factor for Frontotemporal Dementia Spectrum Disorders and Alzheimer Disease**
Lee S. E., Tartaglia M. C., Yener G., GENÇ Ş., Seeley W. W., Sanchez-Juan P., Moreno F., Mendez M. F., Klein E., Rademakers R., et al.
ALZHEIMER DISEASE & ASSOCIATED DISORDERS, vol.27, no.4, pp.302-309, 2013 (SCI-Expanded)
- XLV. **ASSOCIATION OF PERIPHERAL VISFATIN LEVELS AND VISFATIN G-948T GENE POLYMORPHISM WITH ALZHEIMER'S DISEASE IN A TURKISH POPULATION**
Vurgun U., Sahin O., Tufekci K. U., Keskinoglu P., Yener G., Genc K. K., Genç Ş.
TURKISH JOURNAL OF GERIATRICS-TURK GERIATRI DERGİSİ, vol.16, no.2, pp.123-128, 2013 (SCI-Expanded)
- XLVI. **Resveratrol Reduces Matrix Metalloproteinase-2 Activity Induced by Oxygen-Glucose Deprivation and Reoxygenation in Human Cerebral Microvascular Endothelial Cells**
ÇAVDAR Z., YÜKSEL EĞRİLMEZ M., ALTUN Z. S., ARSLAN N., YENER N., SAYIN O., GENÇ Ş., Genc K., İŞLEKEL G. H., OKTAY G., et al.
INTERNATIONAL JOURNAL FOR VITAMIN AND NUTRITION RESEARCH, vol.82, no.4, pp.267-274, 2012 (SCI-Expanded)
- XLVII. **Inflammation in Parkinson's Disease**
Tufekci K. U., Meuwissen R., GENÇ Ş., Genc K.
INFLAMMATION IN NEUROPSYCHIATRIC DISORDERS, vol.88, pp.69-132, 2012 (SCI-Expanded)
- XLVIII. **Erythropoietin in neonatal brain protection: the past, the present and the future.**
KUMRAL A., Tuzun F., Oner M. G., GENÇ Ş., Duman N., ÖZKAN H.
Brain & development, vol.33, no.8, pp.632-43, 2011 (SCI-Expanded)
- XLIX. **Intranasal erythropoietin therapy in nervous system disorders**
GENÇ Ş., Zadeoglulari Z., Oner M. G., Genc K., Digicaylioglu M.
EXPERT OPINION ON DRUG DELIVERY, vol.8, no.1, pp.19-32, 2011 (SCI-Expanded)
- L. **The Endotoxin-Induced Neuroinflammation Model of Parkinson's Disease**
Tufekci K. U., GENÇ Ş., Genc K.

- PARKINSONS DISEASE, vol.2011, 2011 (SCI-Expanded)
- L.I. **The Nrf2/ARE Pathway: A Promising Target to Counteract Mitochondrial Dysfunction in Parkinson's Disease**
Tufekci K. U., Bayin E. C., GENÇ Ş., Genc K.
PARKINSONS DISEASE, vol.2011, 2011 (SCI-Expanded)
- L.II. **Patient-Specific Pluripotent Stem Cells in Neurological Diseases**
Durnaoglu S., GENÇ Ş., Genc K.
STEM CELLS INTERNATIONAL, vol.2011, 2011 (SCI-Expanded)
- L.III. **White Matter Protection by Erythropoietin: An Emerging Matter in the Treatment of Neonatal Hypoxic-Ischemic Brain Injury**
GENÇ Ş., Genc K., KUMRAL A., ÖZKAN H.
STROKE, vol.41, no.11, 2010 (SCI-Expanded)
- L.IV. **Alzheimer hastalığında beyin omurilik sıvısı ve serumda beta sekretaz aktivitesi**
Yaka E., Genc S., İyilikçi L., Yener G. G.
Journal of Neurological Sciences (Turkish), vol.27, no.1, pp.69-74, 2010 (SCI-Expanded)
- L.V. **Safety Concerns With the Clinical Use of Erythropoietin in Acute Ischemic Stroke**
KUMRAL A., GENÇ Ş., KUTLUK M. K., ÖZKAN H.
STROKE, vol.41, no.7, 2010 (SCI-Expanded)
- L.VI. **Erythropoietin induces nuclear translocation of Nrf2 and heme oxygenase-1 expression in SH-SY5Y cells**
Genc K., Yüksel Eğrilmez M., Genç Ş.
CELL BIOCHEMISTRY AND FUNCTION, vol.28, no.3, pp.197-201, 2010 (SCI-Expanded)
- L.VII. **How Does Early and Late Reoxygenation Following Hypoxia Affect Human Umbilical Vascular Endothelial Cells in Respect to Oxidative Stress?**
ALTUN Z. S., İŞLEKEL G. H., SAYIN O., YÜKSEL EĞRİLMEZ M., GENÇ Ş., Genc K., ÇAVDAR Z., OKTAY G., Guner G.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGİSİ, vol.35, no.3, pp.225-229, 2010 (SCI-Expanded)
- L.VIII. **Protective Effects of Methylxanthines on Hypoxia-Induced Apoptotic Neurodegeneration and Long-Term Cognitive Functions in the Developing Rat Brain**
KUMRAL A., Yesilirmak D. C., Aykan S., GENÇ Ş., TUĞYAN K., CİLAKER MIÇİLİ S., Akhisaroglu M., AKSU İ., Sutcuoglu S., YILMAZ O., et al.
NEONATOLOGY, vol.98, no.2, pp.128-136, 2010 (SCI-Expanded)
- L.IX. **In vitro reoxygenation following hypoxia increases MMP-2 and TIMP-2 secretion by human umbilical vein endothelial cells**
Çavdar Z., Oktay G., Yüksel Eğrilmez M., Genç Ş., Genc K., Altun Z. S., İşlekel G. H., Guner G.
ACTA BIOCHIMICA POLONICA, vol.57, no.1, pp.69-73, 2010 (SCI-Expanded)
- L.X. **THERAPEUTIC EFFECT OF ERYTHROPOIETIN IN AN EXPERIMENTAL IN VIVO ALZHEIMER'S DISEASE ANIMAL MODEL MODERATED BY D-GALACTOSE INJECTION AT OVARIECTOMIZED RATS**
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- I. Alzheimer's disease (AD) is a neurodegenerative disorder clinically characterized by progressive memory loss and cognitive decline. Pathological hallmarks of the disease are the formation of amyloid plaques and neurofibrillary tangles. Several research has demonstrated that AD-related pathological changes occur long before clinical symptoms are manifested. Thus, it is crucial to establish an accurate diagnosis at an early stage, particularly for individuals aged 60 years and above. Biomarkers serve as vital tools for AD diagnosis, monitoring, early detection, therapeutic intervention, and preventing inaccurate diagnoses. Still, there are no robust tools or biomarkers that can provide precise information for the diagnosis of AD. tRNA-derived fragments (tRFs) are a distinctive type of small non-coding RNAs produced from tRNAs via nucleases Dicer and Angiogenin. tRFs can regulate biological functions such as translation and transcription. Recently, there has been much attention drawn to the previously unexplored connection between tRFs and neurodegenerative disorders. Extracellular vesicles (EVs) are vesicles with lipid membranes and contain numerous different molecules, such as nucleic acids, proteins, and lipids. Within their cargo contents, EVs contribute to development, cell growth, and survival, intercellular communication, and waste disposal, but also to disease pathogenesis. Just like all other cell types, neurons also secrete extracellular vesicles, and neuron-derived extracellular vesicles (NDEVs) may contain distinctive cargoes. In this study, we profiled the tRF content of neuron-derived extracellular vesicles (NDEVs) of AD patients and healthy controls (HCs) with next-generation sequencing. We demonstrated that six tRFs (ProAGG, GluTTC, LysCTT, LeuAAG, SerAGA, ValCAC) were differentially expressed in NDEVs of AD patients compared to HCs. Further, we confirmed those tRFs on a considerably larger population with the RT-qPCR method. Gene Ontology and Kyoto Encyclopedia of Genes and Genomes annotation also indicated that these are enriched in various neuron and brain-related categories; for example, axogenesis (GO:0007409), regulation of nervous system development (GO:0051960), and regulation of neuron projection development (GO:0010975). Taken together, our results indicate that dysregulated tRFs have the potential to serve as a biomarker for AD in future investigations.

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- IV. İNFANTİL KOLİK PATOGENEZİNE YENİ BİR BAKIŞ; İNFANTİL KOLİK BİR BİYORİTM DÜZENSİZLİĞİ MİDİR?

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- XVI. The impact of exosomes in brain disorders: from pathogenesis to clinical application
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- ERDOĞAN F., GENÇ Ş., DUMAN N., AKYILDIZ C., Taştan B., ARMAĞAN C., Project Supported by Higher Education Institutions, Kolostrum kökenli intranasal eksozom tedavisinin periventriküler lökomalazi sıçan modelinde nörorestoratif etkinliğinin değerlendirilmesi, 2022 - Continues
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Genç Ş., Cuadrado A., EU Supported Other Project, Bench to bedside transition for pharmacological regulation of NRF2 in noncommunicable diseases (BenBedPhar), 2021 - 2025

Genç Ş., Brandau S., EU Supported Other Project, Converting molecular profiles of myeloid cells into biomarkers for inflammation and cancer (Mye-InfoBank), 2021 - 2025

Genç Ş., Keskinoğlu P., Bora İ. E., Dicle O., Özlü N., Selver M. A., Ceylan Tufanlp D., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Melankolik özellikle depresyon öyküsü olan major depresif bozukluk ve bipolar bozukluk hastalarının ayırcı tanısında makina öğrenmesi kullanarak klinik, MRI ve nöron derive ekzozomda proteomik analiz sonuçlarıyla tanı algoritması geliştirilmesi, 2022 - 2024

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Genç Ş., TUBITAK Project, Mikroglial NLRP3 Inflamazom Aktivasyon Regülasyonunda Uzun-Kodlama Yapmayan RNA NEAT1'in Rolü, 2020 - 2022

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GENÇ Ş., Project Supported by Higher Education Institutions, Glioblastoma Multiforme hücre hatlarında var olan Eritropoetin reseptörlerinin tayini ve Eritropoetinin bu hücre hatlarında migrasyona, invazyona ve angiogeneze etkilerinin araştırılması, 2016 - 2017

GENÇ Ş., Project Supported by Higher Education Institutions, Araştırma alanında üniversitenin 5 yıllık stratejisinin oluşturulması ve strateji belgesinin hazırlanması, 2016 - 2017

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GENÇ Ş., Project Supported by Higher Education Institutions, Resveratrolün mikroglial hücrelerdeki ATP ile indüklenmiş inflamazom aktivasyonuna etkilerinin incelenmesi, 2014 - 2017

GENÇ Ş., GENÇ K. K., Project Supported by Higher Education Institutions, Eritropoetinin nöronal hücrelerdeki biyolojik fonksiyonunda miR 34a nin rolü, 2015 - 2016

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GENÇ Ş., GENÇ K. K., Project Supported by Higher Education Institutions, CDC7 inhibitörlerinin glioblastoma multiforme

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GENÇ Ş., Project Supported by Higher Education Institutions, İzmir BiyoTıp ve Genom Araştırma Enstitüsü iBG İzmir
Bilimsel Altyapısının oluşturulması, 2013 - 2016
GENÇ Ş., Project Supported by Higher Education Institutions, Eritropoetin'in nöronal hücrelerdeki biyolojik
fonksiyonlarında miR-34a'nın rolü, 2014 - 2015
GENÇ Ş., TUBITAK Project, Glial Hücrelerde Endotelyal Protein C Rezeptörü EPCR Ekspresyonunu Düzenleyici
Mekanizmanın Belirlenmesi, 2014 - 2015
GENÇ Ş., TUBITAK Project, İskemik İnmede TNF Related Apoptosis Inducing Ligand TRAIL in Rolü, 2013 - 2015
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Nöroprotektif Etkisinde Nrf2 Sinyal Yolağının Rolü, 2013 - 2015
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Mekanizmasının Mikroarray yöntemi ile incelenmesi, 2009 - 2012
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Ekspresyonu Üzerine Etkisi, 2009 - 2011
Çavdar Z., Genç Ş., Yaka E., Yener G., TUBITAK Project, Alzheimer Hastalığında Yeni Biyomarkır Geliştirilmesi TRAIL
İnterlökin 18 ve Beta Sekretaz Aktivitesi, 2005 - 2008
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Potansiyel Etkileşimler, 2005 - 2006
Kıraklı F. G., Çavdar Z., Akar S., Özcan M. A., Ateş H., Resmi H., Genç Ş., Sarı İ., Pişkin Ö., Tuncel E. P., et al., TUBITAK Project,
Ailesel Akdeniz Ateşi Hastalarında Oksidatif Hasar Nötrofil Apoptozu ve Aralarındaki Potansiyel Etkileşimler, 2004 - 2005

Scientific Consultations

TUBİTAK, Scientific Consultancy, Dokuz Eylül University, Sağlık Bilimleri Enstitüsü, Turkey, 2023 - Continues
TÜBİTAK, Scientific Consultancy, Dokuz Eylül University, Sağlık Bilimleri Enstitüsü, Turkey, 2022 - Continues

Tasks In Event Organizations

Genç Ş., 2022 Yılı Sinirbilimleri Kongresi , Scientific Congress, İstanbul, Turkey, Ekim 2022

Metrics

Publication: 172
Citation (WoS): 3839
Citation (Scopus): 4232
H-Index (WoS): 32
H-Index (Scopus): 33

Congress and Symposium Activities

Tıbbi Biyoloji ve Genetik, Invited Speaker, Ankara, Turkey, 2023
International Molecular Immunology and Immunogenetics Congress, Invited Speaker, İzmir, Turkey, 2022
3rd BenBedPhar Scientific meeting, Session Moderator, Bucuresti, Romania, 2022
2nd BenBedPhar Scientific meeting, Invited Speaker, Madrid, Spain, 2022
Embo Workshop inflammasomes:the next frontiers, Attendee, Munich, Germany, 2021
3. Ulusal Proteomik Kongresi, Attendee, İstanbul, Turkey, 2020
The XIV European Meeting on Glial Cells in Health and Disease, Attendee, Porto, Portugal, 2019
Undoing Aging 2018, Attendee, Berlin, Germany, 2018

Awards

Üçüncü Egeli T., Özkan H., Genç Ş., Erdoğan F., Duman N., Keskinoğlu P., SÖZEL BİLDİRİLER ÜÇÜNCÜLÜK ÖDÜLÜ, Türk Neonatoloji Derneği, October 2021

Genç Ş., Eczacıbaşı Tıp Bilim Ödülü, Eczacıbaşı , July 2011

Genç Ş., Eczacıbaşı Tıp teşvik Ödülü, Eczacıbaşı, July 2009

Cilaker Mıçılı S., Yiş U., Kumral A., Yılmaz O., Genç Ş., Araştırma Birincilik Ödülü, 17. Ulusal Neonatoloji Kongresi (Uneko-17), April 2009

Genç Ş., TÜBİTAK Sağlık Bilimleri alanında Teşvik Ödülü, Tübitak, July 2007

Genç Ş., Türkiye Bilimler Akademisi Üstün Başarılı Genç Bilim İnsanı Ödülü, Türkiye Bilimler Akademisi , July 2006

Genç Ş., L'oreal Genç Bilim Kadınlarını Destekleme Programı ödülü, L'oreal, July 2004