

SIMGE AYKAN

Address: Ankara Universitesi Tip Fakultesi
Morfoloji Binasi Fizyoloji Abd
Sihhiye/Ankara Turkey

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EDUCATION:

- **Ankara University, Department of Interdisciplinary Neuroscience, Ankara, Turkey**
PhD student, September 2010- continuing
Thesis Title: Investigation of Visual and Auditory Potentials of Healthy People with Autistic Traits by Electroencephalography and Determination of Relationship with Single Nucleotide Polymorphisms
Thesis Advisor: Prof. Dr. Canan Kalaycioglu
- **Vrije University, Department of Clinical Genetics, Section of Medical Genomics, Amsterdam, The Netherlands**
PhD student, Incomplete, May 2008-January 2009
Thesis Title: Towards clinical and technological application of gene expression engineering by exon skipping: Restoring MAPT Splicing in FTDP-17
Thesis Advisor: Prof. Dr. Peter Heutink
- **Dokuz Eylul University Institute of Health Sciences, Department of Neuroscience, Izmir, Turkey**
MSc in Basic Neuroscience, September 2005-September 2007
Thesis Title: Development of a new biomarker in Alzheimer's disease: IL-18
Thesis Advisor: Prof. Dr. Gorsev. G. Yener
- **Hacettepe University, Ankara, Turkey**
BSc in Department of Biology, Faculty of Science, February 2005

LANGUAGE SKILLS:

- **English (Fluent),**
TOEFL IBT 97/120,
Exam Date: July 2010
 - **German (Beginner)**
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RESEARCH EXPERIENCE:

- **Research Assistant (Oct 2012-Continuing)**
Ankara University, Department of Interdisciplinary Neuroscience, Ankara, Turkey
Project: Investigation of Visual and Auditory Potentials of Healthy People with Autistic Traits by Electroencephalography and Determination of Relationship with Single Nucleotide Polymorphisms
Advisor: Prof. Dr. Canan Kalaycioglu
- **Project Support Specialist, (Jan 2012- Sept 2012)**
Ankara University, Department of Interdisciplinary Neuroscience, Ankara, Turkey
Project: Developmental Dyslexia: Defining the relations between linguistics and EEG
Advisor: Prof. Dr. Canan Kalaycioglu
- **Research Assistant, PhD Student (May 2008-Jan 2009)**
Vrije University, Department of Clinical Genetics, Section of Medical Genomics, Amsterdam, The Netherlands
Project: Towards clinical and technological application of gene expression engineering by exon skipping: Restoring MAPT Splicing in FTDP-17
Advisor: Prof. Dr. Peter Heutink
- **Research Fellow, (October 2007-April 2008)**
Radboud University, Institute of Neuroscience, Department of Molecular Animal Physiology, Nijmegen, The Netherlands
Project: Unraveling Schizophrenia: From a rat model to the human disorder
Advisor: Prof. Dr. Gerard Martens
- **Research Assistant, MSc Student (October 2005-September 2007)**
Dokuz Eylul University Institute of Health Sciences, Neuroscience Department
Izmir, Turkey

Completed Research Projects;

1. *Effect of Erythropoietin on Nrf-2 Translocation in SHSY-5Y Cell Line;*
Advisor: Assoc. Prof. Dr. Sermin Genc, Dept. of Neuroscience, Dokuz Eylul Univ.
 2. *The functional role of $\alpha 7$ nicotinic receptors on cells of the macrophage lineage;*
Advisor: Dr. Jurgen Zielasek, Dept. of Psychiatry & Psychotherapy, Heinrich-Heine Univ
 3. *Development of a new biomarker in Alzheimer's disease: Interleukin -18;*
Advisor: Prof. Dr. Gorsev G. Yener, Department of Neurology, Dokuz Eylul Univ.
 4. *BDNF Level in Schizophrenia with Negative Symptoms;*
Advisor: Prof. Dr. Koksal Alptekin, Department of Psychiatry, Dokuz Eylul Univ.
- **Intern Research Rotation (September-November 2004)**
Yale University, Neurosurgery Department, Gunel's Lab. (Genetics Research Lab.), New Haven, U.S.A.
Functional Genomics of Cerebral Cavernous Malformations
Advisor: Prof. Dr. Murat Gunel, Dept. of Neurosurgery,

AWARDS and GRANTS:

- **Thesis Project Support, 2013**

“Investigation of Visual and Auditory Potentials of Healthy People with Autistic Traits by Electroencephalography and Determination of Relationship with Single Nucleotide Polymorphisms”
Ankara University, Coordination of Scientific Research Projects, Turkey

- **Tohum Autism Foundation Attendance Grant for Scientific Events, 2011**

“Autism Spectrum Disorders Workshop, New York, USA”
Tohum Autism Foundation, Turkey

- **Poster Presentation Award, 3rd poster, 2007**

“*Relationship between BDNF Serum Levels and Cognitive Symptoms of Schizophrenia*”
43rd National Congress of Psychiatry, Turkey

- **Poster Presentation Award, 3rd poster, 2007**

“*Effect of Clozapine on Proliferation of SHSY-5Y Neuroblastoma Cell Line*”
II. National Psychopharmacology Congress, Turkey

- **Project Support Award, 2006**

“*Effect of EPO on Nrf-2 Translocation in SHSY-5Y Cell Line*”
Turkish Brain Research Society, Turkey

- **Granted Project, 2006**

“*Serum BDNF Protein Level in Schizophrenia with Negative Symptoms*”
Granted by: Sanofi-Aventis, Turkey

- **EMBO Short Term, Travel Fellowship, 2006**

“*The functional role of $\alpha 7$ nicotinic receptors on cells of the macrophage lineage*”
Dept. of Psychiatry and Psychotherapy, Neurobiochemistry Laboratory,
Heinrich-Heine University, Duesseldorf, Germany
Advisor: Dr. Jurgen Zielasek
European Molecular Biology Organization, EU

PUBLICATIONS:

1. Kumral A, Yesilirmak DC, **Aykan S**, Genc S, Tugyan K, Cilaker S, Akhisaroglu M, Aksu I, Sutcuoglu S, Yilmaz O, Duman N, Ozkan H. Protective Effects of Methylxanthines on Hypoxia-Induced Apoptotic Neurodegeneration and Long-Term Cognitive Functions in the Developing Rat Brain. *Neonatology*. 2010 Feb 12;98(2):128-136.

Times Cited: 3

2. Kumral A, Baskin H, Yesilirmak DC, Ergur BU, **Aykan S**, Genc S, Genc K, Yilmaz O, Tugyan K, Giray O, Duman N, Ozkan H Erythropoietin attenuates lipopolysaccharide-induced white matter injury in the neonatal rat brain. *Neonatology*. 2007 Jul 11;92(4):269-278

Times Cited: 34

3. Yesilirmak DC, Kumral A, Baskin H, Ergur BU, **Aykan S**, Genc S, Genc K, Yilmaz O, Tugyan K, Giray O, Duman N, Ozkan H Activated protein C reduces endotoxin-induced white matter injury in the developing rat brain. *Brain Res*. 2007 May 23

Times Cited: 9

ORGANIZED WORKSHOP:

- EEG Workshop

Brain Awareness Week, Ankara University Brain Research and Application Center
11-12 Mart 2013

ORAL PRESENTATIONS:

1. **Aykan S.**
EEG Research-Neurophysiology Lab. Seminar
Middle East Technical University Biomedical Engineering Department Seminars,
November 2012, Turkey
2. **Aykan S.,** Bekar P., Oğuzhan M., Gürkan K., Büyüktürkoğlu K., Kalaycıoğlu C.
Interhemispheric Transfer Time in Developmental Dyslexia: Preliminary Findings
International Brain Dynamics Workshop, July 2012, Turkey

POSTER PRESENTATIONS:

1. **Aykan S,** Bekar P, Ay S, Ulusoy Parnas İ, Alpas B, Kalaycıoğlu C. Interhemispheric Transfer Time in Developmental Dyslexia. 11th National Neuroscience Congress, April 2013, Turkey
 2. Akdede BB, Alptekin K, Oguz M, **Aykan S,** Ulas H. Neurotrophic Factors And Schizophrenia: Relation To Cognition. Schizophrenia Bulletin Volume: 35 Pages: 301-301 Suppl.1. 12th International Congress on Schizophrenia Research, USA
 2. Alptekin K, **Aykan S,** Akdede BBK, Ulas H, Aktaner A, Can C, Cengizcetin N, Mertol S, Oguz M, Taslica S. Expressions of mRNA for GDNF in Schizophrenia Schizophrenia Research, Volume 102, Issues 1-3, Supplement 2, June 2008, Pages 181-182 1st Schizophrenia International Research Society Conference, Italy.
 3. **Aykan S,** Alptekin K, Akdede BBK, Ulas H, Aktener A, Can C, Cengizcetin N, Mertol M, Oguz M, Taslica S. Relationship Between BDNF Serum Levels and Cognitive Symptoms of Schizophrenia. 43rd National Congress of Psychiatry, October 2007, Turkey
 4. **Aykan S,** Aykan Y, Bayboga M, Alptekin K. Effect of Clozapine on Proliferation of SHSY-5Y Neuroblastoma Cell Line. 2nd National Psychopharmacology Congress, June 2007, Turkey
 5. Egrilmez M, Cavdar Z, **Aykan S,** Genc S, Genc K, Guner G. Activated Protein C Attenuates Lipopolysaccharide-Induced Activation Of Cell Death And Tumour Necrosis Factor-Alpha Production In Murine Microglial Cells. J Thromb Haemost 2007; 5 Supplement 2: P-S-091 XXIst Congress of the International Society on Thrombosis and Haemostasis , Switzerland
 6. **Aykan S,** Egrilmez MY, Genc S, Genc K, Güner G. Erythropoietin upregulates NF-E2 related Factor 2 expression in astrocyte cells. FEBS Journal 2006; 273(1):237 31st FEBS Congress, June 2006, Turkey
 7. Genc S, Kinik HE, Bozdog M, Kilic RK, **Aykan S,** Guner G, Genc K. Erythropoietin-conditioned-astrocyte-conditioned medium decreases ethanol neurotoxicity in vitro. FEBS Journal 2006; 273(1):236-237 31st FEBS Congress, June 2006, Turkey 31st FEBS Congress, June 2006, Turkey
 8. **Aykan S,** Egrilmez MY, Tarcan-Avci S, Genc S, Genc K. Erythropoietin upregulates NF-E2 related Factor 2 expression in human neuroblastoma cell line. 5th National Neuroscience Congress, April 2006, Turkey
 9. **Aykan S,** Egrilmez MY, Yaka E, Cavdar Z, Genc S, Yener GG, Genc K. Interleukin-18 as a Potential Diagnostic Marker for Alzheimer's Disease. 5th National Neuroscience Congress, April 2006, Turkey
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WORKSHOPS, COURSES:

- **International Summer School and Workshop on Brain Dynamics**, Marmaris, Turkey
Institute of Theoretical and Applied Physics, 23-28 June 2012
 - **Frontiers In Autism and Neurodevelopmental Disorders Symposium**, Ankara, Turkey
Hacettepe University Faculty of Medicine, 9-10 March 2012
 - **Autism Spectrum Disorders Workshop**, New York, USA
Cold Spring Harbor Laboratory, 8-15 June 2011
 - **Course on Laboratory Animal Science**, Nijmegen, The Netherlands
Radboud University, 18 February 2008
 - **Advanced Methods in Behavioral Neurology**, Zonguldak, Turkey
Zonguldak Karaelmas University, 10 April 2006
 - **Course on Experimental Animal in Biological Research**, Denizli, Turkey
Pamukkale University, 6-7 April 2004
 - **IBRO Course in Neuroscience**, Izmir, Turkey
International Brain Research Organization, 10-18 September 2003
 - **National Neurobiology Winter School**, Izmir, Turkey
Ege University, 17-22 February 2003
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