

**EDUCATIONAL BACKGROUND:**

1989-1995 **MEDICAL STUDENT**

University of Istanbul, Istanbul Faculty of Medicine  
(Graduated with an MD degree)

1995-2000 **RESIDENT IN NEUROLOGY**

Department of Neurology, University of Istanbul, Istanbul Faculty of Medicine (Graduated as a specialist in Neurology)

2009 **ASSOCIATE PROFESSOR OF NEUROLOGY**

Department of Neurology, University of Istanbul, Istanbul Faculty of Medicine

**RESEARCH PROFILE:**

2000-2001 **VISITING SCIENTIST**

Clinical Neurology Department, Oxford University, Oxford, UK.

2001-2002 **VISITING SCIENTIST**

Department of Microbiology and Immunology, UTMB at Galveston, Texas, USA.

2002-2006 **POSTDOCTORAL FELLOW**

Department of Microbiology and Immunology, UTMB at Galveston, Texas, USA.

2006-2007 **SENIOR RESEARCH INVESTIGATOR**

Department of Neurology, University of Pennsylvania, Philadelphia, Pennsylvania, USA.

2007-2011 **CLINICAL RESEARCH FELLOW**

Department of Neurology, University of Istanbul, Istanbul Faculty of Medicine, Istanbul, Turkey.

2011-present **CHAIRMAN OF DEPARTMENT OF NEUROSCIENCE**

Department of Neuroscience, Institute for Experimental and Medical Research (DETAE), Istanbul University, Istanbul, Turkey.

**LANGUAGE:** Turkish, English.

**ACTIVITIES and MEMBERSHIP:**

Member of Society of Neuroimmunology (Turkey)

Member of Society of Neurology (Turkey)

**PUBLISHED BOOK CHAPTERS**

1. Tüzün E, Christadoss P. Chapter IV. Complement associated pathogenic mechanisms in myasthenia gravis. Neuroimmunology Research Perspectives (editor Johansson LM), Nova Science Publishers, NY, USA, 2007: 103-129.

2. Vincent A, Tüzün E. Chapter 7. Neuromuscular Junction Disorders. Master in Neuroimmunology (editors Montalban XG, Sastre-Garriga J), Viguera Editores S.L., Barcelona, Spain, 2009: 275-325, editions 1st to 4th.

3. Tüzün E, Akman-Demir Gülşen, Yazıcı J. Neuro-oncology (Turkish). Neurology Textbook (editors Öge AE, Baykan B), Istanbul, Turkey, 2009: 577-593.

4. Tüzün E, Vincent A. Chapter 2. Pathogenic mechanisms in myasthenia gravis. Myasthenia Gravis Disease Mechanisms and Immune Intervention (editor Christadoss P), Linus Publications, NY, USA, 2010: 23-39.
5. Tüzün E, Christadoss P. Chapter 18. Targeting classical complement pathway and IL-6 in experimental autoimmune myasthenia gravis. Myasthenia Gravis Disease Mechanisms and Immune Intervention (editor Christadoss P), Linus Publications, NY, USA, 2010: 327-351.
6. Erkol G, Tüzün E, Siva A. Chapter 27. Neurological problems of the cancer patient (Turkish). Approaching the Cancer Patient (editor Molinas Mandel M, Onat H), Nobel Publications, Istanbul, Turkey, 2011: 275-301.
7. Sahin HA, Tüzün E. Dementia with immunological mechanisms (Turkish). Basic Neurology (editor Emre M), Gunes Medical Publications, Istanbul, Turkey, 2011: 997-1001.
8. Tüzün E. Paraneoplastic neurological syndromes and antibody associated diseases of the central nervous system (Turkish). Basic Neurology (editor Emre M), Gunes Medical Publications, Istanbul, Turkey, 2011: 1145-1151.
9. Tüzün E, Ulusoy C. Myasthenia gravis model (Turkish). Basic and Clinical Neuroimmunology (editor Karabudak R), Ada Press and Publications, Ankara, Turkey, 2013: 165-173.
10. Tüzün E. Limbic encephalitis (Turkish). Basic and Clinical Neuroimmunology (editor Karabudak R), Ada Press and Publications, Ankara, Turkey, 2013: 511-519.
11. Altunrende B, Akman-Demir G, Tüzün E. Paraneoplastic neurological syndromes (Turkish). Basic and Clinical Neuroimmunology (editor Karabudak R), Ada Press and Publications, Ankara, Turkey, 2013: 521-536.

#### **PUBLISHED ARTICLES:**

##### **(Selected papers published in peer-reviewed journals)**

1. Buckley C, Oger J, Clover L, Tüzün E, Carpenter K, Jackson M, Vincent A. Potassium channel antibodies in two patients with reversible limbic encephalitis. Annals of Neurology 2001, 50(1): 73-78.
2. Deng C, Goluszko E, Tüzün E, Yang H, Christadoss P. Resistance to experimental autoimmune myasthenia gravis in IL-6-deficient mice is associated with reduced germinal center formation and C3 production. The Journal of Immunology 2002, 169(2): 1077-1083.
3. Poussin MA, Tüzün E, Goluszko E, Scott BG, Yang H, Franco JU, Christadoss P. B7-1 costimulatory molecule is critical for the development of experimental autoimmune myasthenia gravis. The Journal of Immunology 2003, 170(8): 4389-4396.
4. Tüzün E, Scott BG, Goluszko E, Higgs S, Christadoss P. Genetic evidence for involvement of classical complement pathway in induction of experimental autoimmune myasthenia gravis. The Journal of Immunology 2003, 171(7): 3847-3854.
5. Newsom-Davis J, Buckley C, Clover L, Hart I, Maddison P, Tüzün E, Vincent A. Autoimmune disorders of neuronal potassium channels. Annals of the New York Academy of Sciences 2003, 998: 202-210.
6. Tüzün E, Scott BG, Yang H, Wu B, Goluszko E, Guigneaux M, Higgs S, Christadoss P. Circulating immune complexes augment severity of antibody mediated myasthenia

gravis in hypogammaglobulinemic RIIS/J mice. *The Journal of Immunology*, 2004, 172(9): 5743-5752.

7. Rowin J, Meriggioli MN, Tüzün E, Leurgans S, Christadoss P. Etanercept treatment in corticosteroid-dependent myasthenia gravis. *Neurology*, 2004, 63(12): 2390-2392.

8. Tüzün E, Meriggioli MN, Rowin J, Yang H, Christadoss P. Myasthenia gravis patients with low plasma IL-6 and IFN- $\gamma$  benefit from etanercept treatment. *Journal of Autoimmunity*, 2004, 24(3): 261-268.

9. Yang H, Tüzün E, Alagappan D, Yu X, Scott BG, Ischenko A, Christadoss P. IL-1 receptor antagonist-mediated therapeutic effect in murine myasthenia gravis is associated with suppressed serum pro-inflammatory cytokines, C3, and anti-acetylcholine receptor IgG1. *The Journal of Immunology*, 2005, 175(3): 2018-2025.

10. Dalmau J, Tüzün E, Wu HY, Masjuan J, Rossi JE, Voloschin A, Baehring JM, Shimazaki H, Koide R, King D, Mason W, Sansing LH, Dichter MA, Rosenfeld MR, Lynch DR. Paraneoplastic anti-N-methyl-D-aspartate receptor encephalitis associated with ovarian teratoma. *Annals of Neurology*, 2007, 61(1): 25-36.

11. Sansing LH, Tüzün E, Ko MW, Baccon J, Lynch DR, Dalmau J. A patient with encephalitis associated with NMDA receptor antibodies. *Nature Clinical Practice Neurology*, 2007, 3(5): 291-296.

12. Tüzün E, Dalmau J. Limbic encephalitis and variants: Classification, diagnosis and treatment. *The Neurologist*, 2007, 13(5): 261-271.

13. Yang H, Wu B, Tüzün E, Saini SS, Li J, Allman W, Higgs S, Xiao TL, Christadoss P. A new mouse model of autoimmune ocular myasthenia gravis. *Investigative Ophthalmology & Visual Science*, 2007, 48(11): 5101-5111.

14. Christadoss P, Tüzün E, Li Jing, Saini SS, Yang H. Classical complement pathway in experimental autoimmune myasthenia gravis pathogenesis. *Annals of the New York Academy of Sciences*, 2008, 1132: 210-219.

15. Akman-Demir G, Tüzün E, İçöz S, Yeşilot N, Yentür SP, Kürtüncü M, Mutlu M, Saruhan-Direskeneli G. Interleukin-6 in neuro-Behçet's disease: Association with disease subsets and long-term outcome. *Cytokine*, 2008, 44(3): 373-376.

16. Tüzün E, Li J, Saini SS, Yang H, Christadoss P. Targeting classical complement pathway to treat complement mediated autoimmune diseases. *Advances in Experimental Medicine and Biology*, 2008, 632: 265-272.

17. Tüzün E, Zhou L, Baehring JM, Bannykh S, Rosenfeld MR, Dalmau J. Evidence for antibody-mediated pathogenesis in anti-NMDAR encephalitis associated with ovarian teratoma. *Acta Neuropathologica*, 2009, 118(6): 737-743.

18. Tüzün E, Kürtüncü M, Lang B, İçöz S, Akman-Demir G, Eraksoy M, Vincent A. Bickerstaff's encephalitis and Miller Fisher syndrome associated with voltage-gated potassium channel and novel anti-neuronal antibodies. *European Journal of Neurology*, 2010, 17(10): 1304-1307.

19. Akman-Demir G, Tüzün E, Waters P, İçöz S, Kürtüncü M, Jarius S, Yapıcı Z, Mutlu M, Yeşilot N, Vincent A, Eraksoy M. Prognostic implications of aquaporin-4 antibody status in neuromyelitis optica patients. *Journal of Neurology*, 2011, 258(3): 464-470.

20. Tüzün E, Huda R, Christadoss P. Complement and cytokine based therapeutic strategies in myasthenia gravis. *Journal of Autoimmunity*, 2011, 37(2): 136-143.

21. Ekizoglu E, Içöz S, Tüzün E, Birisik O, Kocasoy-Orhan E, Akman-Demir G, Baykan B. Aquaporin-4 antibodies are not present in patients with idiopathic intracranial hypertension. *Cephalalgia*, 2012; 32(3): 198-202.
22. Tüzün E, Allman W, Ulusoy C, Yang H, Christadoss P. Novel animal models of acetylcholine receptor antibody-related myasthenia gravis. *Annals of the New York Academy of Sciences*, 2012; 1274(1): 133-139.
23. Kürtüncü M, Kaya D, Zuliani L, Erdag E, Içöz S, Ugurel E, Cavus F, Aysit N, Birisik O, Vincent A, Eraksoy M, Vural B, Akman-Demir G, Tüzün E. CACNA1H antibodies associated with headache with neurological deficits and cerebrospinal fluid lymphocytosis (HaNDL). *Cephalalgia*, 2013; 33(2): 123-129.
24. Kıyat-Atamer A, Ekizoğlu E, Tüzün E, Kürtüncü M, Shugaiv E, Akman-Demir G, Eraksoy M. Long-term MRI findings in neuromyelitis optica: seropositive versus seronegative patients. *European Journal of Neurology*, 2013; 20(5): 781-787.
25. Huda R, Tüzün E, Christadoss P. Complement C2 siRNA mediated therapy of myasthenia gravis in mice. *Journal of Autoimmunity*, 2013; 42: 94-104.
26. Tüzün E, Christadoss P. Complement associated pathogenic mechanisms in myasthenia gravis. *Autoimmunity Reviews*, 2013; 12(9): 904-911.

#### **PUBLISHED ABSTRACTS:**

More than 150 communications in Scientific Meetings

#### **PATENTS**

1. Christadoss P, Tüzün E. Methods and materials for treating autoimmune diseases and conditions. U.S. Patent Publication No. US 7923010 B2, Publication Date Apr 12, 2011.
2. Christadoss P, Tüzün E. Methods and materials for treating autoimmune and/or complement mediated diseases and conditions. U.S. Patent Publication No. US 8501705 B2, Publication Date August 6, 2013.

#### **AWARDS:**

1. First degree award at Travel and Project Prize of Brain Research Organization, Turkey (1999)
2. Successful Researcher Award of Istanbul Medical Faculty (2001).
3. Successful Researcher Award of Istanbul Medical Faculty (2002).
4. James W. McLaughlin Postdoctoral Award for Excellence in Research on Infection and Immunity (2004).
5. Scientific Research Award of the Turkish Neuropsychiatry Society (2010).
6. Successful Researcher Award of Scientific Research Project Coordination Unit (2011).
7. Successful Researcher Award of Scientific Research Project Coordination Unit (2012).