

## Ferah Yildirim

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### Curriculum vitae

since 2014	Assistant Professor for Neuropsychiatry, NeuroCure – Cluster of Excellence, Charité
2010 – 2014	Postdoctoral associate, Department of Biological Engineering, Massachusetts Institute of Technology, Cambridge, US; Project title: Epigenetic and transcriptional dysregulation in prodromal Huntington's disease. Advisor: Prof. Ernest Fraenkel
2010	PhD in Medical Neurosciences, Charité Thesis title: Involvement of histone acetylation in neuroprotection against brain ischemic injury. Supervisor: Prof. Andreas Meisel, Grade: Summa cum laude
2004	MSc in Medical Neurosciences, Charité Thesis title: Mechanisms of neuroprotection by Trichostatin A. Supervisor: Prof. Matthias Endres
2000	BSc in Medical Biology, Cerrahpasa Medical School, Istanbul University, TR

### Research fields

Our group is active in the field of molecular neuroscience with particular focus on:

- Regulation of neuronal gene expression in health and disease
- Epigenetic and transcriptional dysregulation in neurodegenerative and neuropsychiatric conditions
- Neuroprotection, in particular by chromatin-modifying strategies

### Activities in the scientific community, honors, awards

since 2017	Member, Committee for Promotion of Young Researchers, Charité
since 2016	Member, Admissions and Examination Committee, International Program Medical Neurosciences, Charité
since 2014	Principal Investigator, NeuroCure – Cluster of Excellence, Charité
2013 – 2014	Postdoctoral Fellowship, Hereditary Disease Foundation
2004 – 2005	Doctoral Fellowship, Research Training Group (GRK) 238, German Research Foundation (DFG)
2002 – 2004	Scholarship for MSc studies, Charité
1997 – 2000	Scholarship for undergraduate studies, Dalyan Foundation, TR
1996 – 2000	Scholarship for undergraduate studies, Turkish Prime Ministry
1996 – 1997	Stipend for undergraduate studies, Government of Istanbul, TR

## Selected publications

HD iPSC Consortium. Altered neurodevelopment of Huntington's disease iPSC-derived neural cells and pharmacological rescue by Isx-9. *Nat Neurosci* (in press)

Schweizer S, Harms C, Lerch H, Flynn J, Hecht J, Yildirim F, Meisel A, Marschenz S. Inhibition of histone methyltransferases SUV39H1 and G9a leads to neuroprotection in an in vitro model of cerebral ischemia. *J Cereb Blood Flow Metab*. 2015;35(10):1640-7.

Yildirim F, Ji S, Kronenberg G, Barco A, Olivares R, Benito E, Dirnagl U, Gertz K, Endres M, Harms C, Meisel A. Histone acetylation and CREB binding protein are required for neuronal resistance against ischemic injury. *PLoS One*. 2014;9(4):e95465.

Vashishtha M, Ng CW, Yildirim F, Gipson TA, Kratter IH, Bodai L, Song W, Lau A, Labadorf A, Vogel-Ciernia A, Troncosco J, Ross CA, Bates GP, Krainc D, Sadri-Vakili G, Finkbeiner S, Marsh JL, Housman DE, Fraenkel E, Thompson LM. Targeting H3K4 trimethylation in Huntington disease. *Proceedings of the National Academy of Sciences of the United States of America*. 2013;110(32):E3027-36.

Ng CW, Yildirim F, Yap YS, Dalin S, Matthews BJ, Velez PJ, Labadorf A, Housman DE, Fraenkel E. Extensive changes in DNA methylation are associated with expression of mutant huntingtin. *Proceedings of the National Academy of Sciences of the United States of America*. 2013;110(6):2354-9.

Riva L, Koeva M, Yildirim F, Pirhaji L, Dinesh D, Mazor T, Duennwald ML, Fraenkel E. Poly-glutamine expanded huntingtin dramatically alters the genome wide binding of HSF1. *J Huntingtons Dis*. 2012;1(1):33-45.

Kronenberg G, Gertz K, Baldinger T, Kirste I, Eckart S, Yildirim F, Ji S, Heuser I, Schrock H, Hortnagl H, Sohr R, Djoufack PC, Juttner R, Glass R, Przesdzing I, Kumar J, Freyer D, Hellweg R, Kettenmann H, Fink KB, Endres M. Impact of actin filament stabilization on adult hippocampal and olfactory bulb neurogenesis. *J Neurosci*. 2010;30(9):3419-31.

Yildirim F, Gertz K, Kronenberg G, Harms C, Fink KB, Meisel A, Endres M. Inhibition of histone deacetylation protects wildtype but not gelsolin-deficient mice from ischemic brain injury. *Exp Neurol*. 2008;210(2):531-42.

Meisel A, Harms C, Yildirim F, Bosel J, Kronenberg G, Harms U, Fink KB, Endres M. Inhibition of histone deacetylation protects wild-type but not gelsolin-deficient neurons from oxygen/glucose deprivation. *J Neurochem*. 2006;98(4):1019-31.