Stanford

# Faisal Fecto

Instructor, Neurology & Neurological Sciences

### CLINICAL OFFICES

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## Bio

### BIO

Dr. Fecto completed his medical training at Aga Khan University in Pakistan in 2005, where he was also junior faculty till 2006. Dr. Fecto completed his PhD in neuroscience at Northwestern University in 2012 during which he was supported by a University Fellowship and an NIH/NIA Ruth L. Kirschstein National Research Service Award Predoctoral Fellowship. From 2012 to 2015 he completed his post-doctoral training in neurogenetics at Northwestern as the Link Foundation Fellow. In 2015, Dr. Fecto joined the University of Iowa neurology residency program as part of the clinical-neuroscientist training track (CNS-TP). At Iowa, he served as Chief Neurology Resident and Adult Neurology Clinic Liaison, as well as serving on departmental committees for curriculum development, program evaluation, resident selection, departmental history/centennial celebrations, and resident continuity of care clinic. Dr. Fecto completed his fellowship in neuromuscular medicine at Stanford University in 2020. Dr. Fecto has received several awards including the resident teaching award, resident team leader award, a resident lectureship by the Iowa Neurological Association, and a fellow scholarship by the American Academy of Neurology. Dr. Fecto is a well-published researcher and serves as an associate editor for the journal BMC Neurology. His research explores the pathogenic mechanisms that contribute to amyotrophic lateral sclerosis and related disorders. His research is supported by an NIH/NINDS R25 Research Education Grant. Dr. Fecto is a member of Alpha Omega Alpha Honor Medical Society, Sigma Xi Scientific Research Honor Society, American Academy of Neurology, Society for Neuroscience, American Association for the Advancement of Science, American Association of Neuromuscular and Electrodiagnostic Medicine, and the American Medical Association.

### CLINICAL FOCUS

- Neurology
- Neuromuscular Medicine

### ACADEMIC APPOINTMENTS

- Instructor, Neurology & Neurological Sciences

### PROFESSIONAL EDUCATION

- Fellowship: Stanford University Neuromuscular Medicine Fellowship (2020) CA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2019)

- Chief Residency, University of Iowa Hospitals and Clinics Neurology Residency , IA (2019)
- Residency: University of Iowa Hospitals and Clinic Neurology Residency (2019) IA
- Postdoctoral Fellowship, Northwestern University Feinberg School of Medicine , IL (2015)
- Graduate Education (PhD), Northwestern University Interdepartmental Neuroscience Program , IL (2012)
- Medical Education: Aga Khan University Medical College (2005) Pakistan

## Publications

### PUBLICATIONS

- **Identification of TMEM230 mutations in familial Parkinson's disease** *NATURE GENETICS*
  Deng, H., Shi, Y., Yang, Y., Ahmeti, K. B., Miller, N., Huang, C., Cheng, L., Zhai, H., Deng, S., Nuytemans, K., Corbett, N. J., Kim, M. J., Deng, et al
  2016; 48 (7): 733-?
- **Whole Exome Sequencing of Familial ALS and Trios of Sporadic ALS to Identify New Genes Associated with ALS**
  Ahmeti, K., Ahmeti, K., Yan, J., Fecto, F., Siddique, N., Pericak-Vance, M., Deng, H., Siddigue, T.
  LIPPINCOTT WILLIAMS & WILKINS.2016
- **"Dominant-Negative Effect" Mechanism in OPTNE478G-Linked Amyotrophic Lateral Sclerosis**
  Shi, Y., Fecto, F., Esengul, Y., Siddique, T., Deng, H.
  LIPPINCOTT WILLIAMS & WILKINS.2016
- **Mutation in the novel nuclear-encoded mitochondrial protein CHCHD10 in a family with autosomal dominant mitochondrial myopathy** *NEUROGENETICS*
  Ajroud-Driss, S., Fecto, F., Ajroud, K., Lalani, I., Calvo, S. E., Mootha, V. K., Deng, H., Siddique, N., Tahmoush, A. J., Heiman-Patterson, T. D., Siddique, T.
  2015; 16 (1): 1–9
- **Dendritic spinopathy in transgenic mice expressing ALS/dementia-linked mutant UBQLN2** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Gorrie, G. H., Fecto, F., Radzicki, D., Weiss, C., Shi, Y., Dong, H., Zhai, H., Fu, R., Liu, E., Li, S., Arrat, H., Bigio, E. H., Disterhoft, et al
  2014; 111 (40): 14524–29
- **Protein recycling pathways in neurodegenerative diseases** *ALZHEIMERS RESEARCH & THERAPY*
  Fecto, F., Esengul, Y., Siddique, T.
  2014; 6 (2): 13
- **Amyloid Properties of Inclusions in ALS and FTLD-TDP but not FTLD-FUS**
  Bigio, E., Wu, J., Deng, H., Bit-Ivan, E., Mao, Q., Ganti, R., Peterson, M., Fecto, F., Siddique, N., Geula, C., Siddique, T., Mesulam, M.
  LIPPINCOTT WILLIAMS & WILKINS.2013: 544
- **Ubiquilin2 Mutations in Parkinson's Disease Extend the Spectrum of Ubiquilinopathies**
  Shi, Y., Chen, W., Fecto, F., Siddique, N., Zhai, H., Deng, H., Esengul, Y., Rajput, A., Jankovivh, J., Rajput, A., Siddique, T.
  LIPPINCOTT WILLIAMS & WILKINS.2013
- **Ubiquilin2 Mutations in Parkinson's Disease Extend the Spectrum of Ubiquilinopathies**
  Shi, Y., Chen, W., Fecto, F., Siddique, N., Zhai, H., Deng, H., Esengul, Y., Rajput, A., Jankovivh, J., Rajput, A., Siddique, T.
  LIPPINCOTT WILLIAMS & WILKINS.2013
- **A New Mutation in Ubiquilin Gene Family and Its Effect on Protein Degradation**
  Yan, J., Ajroud, K., Fecto, F., Shi, Y., Siddique, N., Deng, H., Siddique, T.
  LIPPINCOTT WILLIAMS & WILKINS.2013
- **Failure of Autolysosome Fusion Results in Impaired Autophagy in UBQLN2-Linked ALS-FTD**
  Fecto, F., Esengul, Y., Deng, H., Siddique, T.
  LIPPINCOTT WILLIAMS & WILKINS.2013
- **Impaired Activity of the Ubiquitin-Proteasome System in Transgenic Mice Expressing ALS/Dementia-Linked Mutant UBQLN2**
  Fecto, F., Gorrie, G., Zhai, H., Liu, E., Deng, H., Siddique, T.

LIPPINCOTT WILLIAMS & WILKINS.2013

- **Mutations in the Nuclear Encoded Novel Mitochondrial Protein CHCHD10 Cause an Autosomal Dominant Mitochondrial Myopathy**
  Ajroud-Driss, S., Fecto, F., Ajroud, K., Siddique, T.
  LIPPINCOTT WILLIAMS & WILKINS.2012

- **Mutations in the Nuclear Encoded Novel Mitochondrial Protein CHCHD10 Cause an Autosomal Dominant Mitochondrial Myopathy**
  Ajroud-Driss, S., Fecto, F., Ajroud, K., Siddique, T.
  LIPPINCOTT WILLIAMS & WILKINS.2012

- **UBQLN2 Mutations in ALS and ALS/Dementia: A Genetic, Functional and Histopathological Analysis**
  Fecto, F., Deng, H., Chen, W., Hong, S., Boycott, K., Gorrie, G., Siddique, N., Yang, Y., Shi, Y., Zhai, H., Jiang, H., Hirano, M., Rampersaud, et al
  LIPPINCOTT WILLIAMS & WILKINS.2012

- **Autophagy Is Impaired by UBQLN2 Mutations Linked to ALS/FTD**
  Fecto, F., Esengul, Y., Deng, H., Siddique, T.
  LIPPINCOTT WILLIAMS & WILKINS.2012

- **Mutant UBQLN2 Transgenic Mice Recapitulate Behavioral, Pathological and Neurophysiological Characteristics of Human Ubiqulinopathy**
  Fecto, F., Gorrie, G., Zhai, H., Radzicki, D., Fu, R., Liu, E., Weiss, C., Martina, M., Disterhoft, J., Mugnaini, E., Siddique, T., Deng, H.
  LIPPINCOTT WILLIAMS & WILKINS.2012

- **UBQLN2/P62 cellular recycling pathways in amyotrophic lateral sclerosis and frontotemporal dementia** *MUSCLE & NERVE*
  Fecto, F., Siddique, T.
  2012; 45 (2): 157–62

- **What is repeated in ALS and FTLD** *LANCET NEUROLOGY*
  Fecto, F., Siddique, T.
  2012; 11 (1): 25–27

- **SIGMAR1 mutations, genetic heterogeneity at the chromosome 9p locus, and the expanding etiological diversity of amyotrophic lateral sclerosis** *ANNALS OF NEUROLOGY*
  Fecto, F., Siddique, T.
  2011; 70 (6): 867–70

- **SQSTM1 Mutations in Familial and Sporadic Amyotrophic Lateral Sclerosis** *ARCHIVES OF NEUROLOGY*
  Fecto, F., Yan, J., Vemula, S., Liu, E., Yang, Y., Chen, W., Zheng, J., Shi, Y., Siddique, N., Arrat, H., Donkervoort, S., Ajroud-Driss, S., Sufit, et al
  2011; 68 (11): 1440–46

- **Making Connections: Pathology and Genetics Link Amyotrophic Lateral Sclerosis with Frontotemporal Lobe Dementia** *JOURNAL OF MOLECULAR NEUROSCIENCE*
  Fecto, F., Siddique, T.
  2011; 45 (3): 663–75

- **Mutations in UBQLN2 cause dominant X-linked juvenile and adult-onset ALS and ALS/dementia** *NATURE*
  Deng, H., Chen, W., Hong, S., Boycott, K. M., Gorrie, G. H., Siddique, N., Yang, Y., Fecto, F., Shi, Y., Zhai, H., Jiang, H., Hirano, M., Rampersaud, et al
  2011; 477 (7363): 211–U113

- **Differential Involvement of Optineurin in Amyotrophic Lateral Sclerosis With or Without SOD1 Mutations** *ARCHIVES OF NEUROLOGY*
  Deng, H., Bigio, E. H., Zhai, H., Fecto, F., Ajroud, K., Shi, Y., Yan, J., Mishra, M., Ajroud-Driss, S., Heller, S., Sufit, R., Siddique, N., Mugnaini, et al
  2011; 68 (8): 1057–61

- **Mutant TRPV4-mediated Toxicity Is Linked to Increased Constitutive Function in Axonal Neuropathies** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Fecto, F., Shi, Y., Huda, R., Martina, M., Siddique, T., Deng, H.
  2011; 286 (19): 17281–91

- **TRPV4 mutations and cytotoxic hypercalcemia in axonal Charcot-Marie-Tooth neuropathies.** *Neurology*
  Klein, C. J., Shi, Y., Fecto, F., Donaghy, M., Nicholson, G., McEntagart, M. E., Crosby, A. H., Wu, Y., Lou, H., McEvoy, K. M., Siddique, T., Deng, H. X., Dyck, et al
  2011; 76 (10): 887–94

- **An unusual case of familial ALS and cerebellar ataxia** *AMYOTROPHIC LATERAL SCLEROSIS*
  Yasser, S., Fecto, F., Siddique, T., Sheikh, K. A., Athar, P.
  2010; 11 (6): 568–70

- **Discovering the connection between familial and sporadic amyotrophic lateral sclerosis: pathology trumps genetics** *FUTURE NEUROLOGY*
  Fecto, F., Deng, H., Siddique, T.
  2010; 5 (5): 625–28

- **FUS-Immunoreactive Inclusions Are a Common Feature in Sporadic and Non-SOD1 Familial Amyotrophic Lateral Sclerosis** *ANNALS OF NEUROLOGY*
  Deng, H., Zhai, H., Bigio, E. H., Yan, J., Fecto, F., Ajroud, K., Mishra, M., Ajroud-Driss, S., Heller, S., Sufit, R., Siddique, N., Mugnaini, E., Siddique, et al
  2010; 67 (6): 739–48

- **Scapuloperoneal spinal muscular atrophy and CMT2C are allelic disorders caused by alterations in TRPV4** *NATURE GENETICS*
  Deng, H., Klein, C. J., Yan, J., Shi, Y., Wu, Y., Fecto, F., Yau, H., Yang, Y., Zhai, H., Siddique, N., Hedley-Whyte, E., DeLong, R., Martina, et al
  2010; 42 (2): 165–U102

- **Frameshift and novel mutations in FUS in familial amyotrophic lateral sclerosis and ALS/dementia.** *Neurology*
  Yan, J., Deng, H. X., Siddique, N., Fecto, F., Chen, W., Yang, Y., Liu, E., Donkervoort, S., Zheng, J. G., Shi, Y., Ahmeti, K. B., Brooks, B., Engel, et al
  2010; 75 (9): 807–14

- **A novel de novo MFN2 mutation causing CMT2A with upper motor neuron signs.** *Neurogenetics*
  Ajroud-Driss, S., Fecto, F., Ajroud, K., Yang, Y., Donkervoort, S., Siddique, N., Siddique, T.
  2009; 10 (4): 359–61

- **Alpha7-acetylcholine receptor antibodies in two patients with Rasmussen encephalitis.** *Neurology*
  Watson, R., Jepson, J. E., Bermudez, I., Alexander, S., Hart, Y., McKnight, K., Roubertie, A., Fecto, F., Valmier, J., Sattelle, D. B., Beeson, D., Vincent, A., Lang, et al
  2005; 65 (11): 1802–4

- **Signaling mechanisms mediated by G-protein coupled receptors in human platelets** *ACTA PHARMACOLOGICA SINICA*
  Saeed, S. A., Rasheed, H., Fecto, F. A., Achakzai, M. I., Ali, R., Connor, J. D., Gilani, A. U.
  2004; 25 (7): 887–92