

## U-1118

Mécanismes centraux et  
périphériques de la  
neurodégénérescence

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## POST DOCTORAL POSITION (3 years)

A 3-year post-doctoral position is available in Inserm U1118, Strasbourg, France under the supervision of Dr Luc DUPUIS.

The successful candidate will investigate the relationships between TAU, FUS and TDP-43 in the development of amyotrophic lateral sclerosis and fronto-temporal dementia, two related neurodegenerative diseases currently untractable. This will be done by combining mouse genetics and behaviour with molecular biology techniques based on next generation sequencing and pathological studies in patient tissues.

An experience in NGS techniques such as RNAseq and/or CLIPseq will be highly appreciated.

The position is secured for 3 years, and funded by the ANR.

Applications including a detailed CV and contact of at least two previous supervisors, should be sent to Dr Luc Dupuis ([ldupuis@unistra.fr](mailto:ldupuis@unistra.fr)).

### Recent publications from the laboratory:

- Vercruyse P, Sinniger J, El Oussini H, et al. Alterations in the hypothalamic melanocortin pathway in amyotrophic lateral sclerosis, **Brain**. 2016, Apr;139(Pt 4):1106-22.
- El Oussini H, Bayer H, Scekic-Zahirovic J, et al. Serotonin 2B receptor slows disease progression and prevents degeneration of spinal cord mononuclear phagocytes in amyotrophic lateral sclerosis, **Acta Neuropathol**. 2016, 131(3):465-80
- Scekic-Zahirovic J., Sendscheid O., El Oussini H., et al. Toxic gain of function from mutant FUS protein is crucial to trigger cell autonomous motor neuron loss, **EMBO J.**, 2016, 35(10):1077-97. doi: 10.15252/embj.201592559.
- Dentel C, Palamiuc L, Henriques A, et al. Degeneration of serotonergic neurons in amyotrophic lateral sclerosis: a link to spasticity. **Brain**. 2013 Feb;136(Pt 2):483-93.
- Kabashi E, El Oussini H, Bercier V, et al. Investigating the contribution of VAPB/ALS8 loss of function in amyotrophic lateral sclerosis. **Hum Mol Genet**. 2013 Jun 15;22(12):2350-60.
- Dupuis L, Pradat PF, Ludolph AC, Loeffler JP. Energy metabolism in amyotrophic lateral sclerosis. **Lancet Neurol**. 2011 Jan;10(1):75-82.