

3-year PhD position - IGF Montpellier - UMR 5203 CNRS

Announce of the **Team "Neural Circuits and Signal Transduction"**

for a job advert for a 3-year PhD position (see the abstract below) starting this fall 2022 at **the IGF in Montpellier** under supervision of **Jeanne STER**.

for you or any motivated candidates are interested in the study of neural microcircuitry, with an expertise in electrophysiological recording and behavior (not mandatory but who would be keen in learning these techniques).

The candidate will send a CV along with the name and email addresses of 2 referees to jeanne.ster@igf.cnrs.fr

Deadline: 14th of July 2022

The interviews would take place end of July. Decision soon after.

Contact

Jeanne STER, PhD

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Abstract of the project:

Humans often faced with the dilemma of choosing between a familiar (exploitation of knowledge) and novel option (acquisition of new information). However, biased choices toward excessive exploration can be deleterious leading to the emergence of high risk-taking behaviors. The dorsal subiculum (dSub), which is an important locus in the neural processing of novelty, receives projections from the locus coeruleus and the ventral tegmental area, two monoaminergic nuclei highly reactive to novelty. Despite these evidence the role of dSub dopamine signaling in novelty processing is poorly understood. By combining advanced circuit-mapping, intersectional genetics, *ex* and *in vivo* electrophysiological recording and behavior, the project aims to parse the role of dopamine on dSub circuits involved in novelty processing. The completion of this project will also

provide important insights into cellular mechanisms and inappropriate use therapeutic drugs underlying the emergence of risk-taking behaviors associated with high novelty seeking.