

# Neurology: Neurochemistry, Neuropharmacology and Neurosciences

March 25, 2022 | Webinar

## Ethnopharmacological study and behavioral effects of extracts from plants

Anxiety is a worldwide health problem. Maternal separation presents a major risk factor for anxiety, yet only a few studies investigated the effect of maternal stress on anxiety-related [behavioural impairments](#).

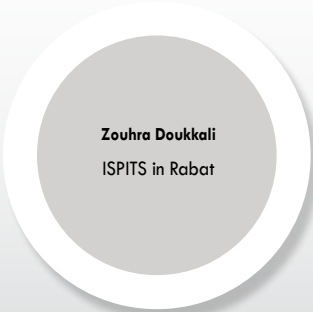
Thus, we aimed to validate an animal model that reflects emotional disturbances seen in patients with maternal stress-induced anxiety. Balb C mice were used in this study, they were subjected to maternal separation from the postnatal day one (PND) to 21 PND then they were tested for anxiety using, the elevated plus maze (EPM), open field (OF), light/dark (L/D test, hole board (H / B test). Moreover, mice were intraperitoneally treated with diazepam 1mg/kg to remedies maternal separation-induced behavioural change.

Our obtained results revealed increased anxiety-like behaviour in subjected animals in the three paradigms the [EPM](#), OF and the L/D test and decreased exploratory behaviour in the H/B test. These effects were not associated to a change in the locomotor activity as has been observed during the OF test. Moreover, Diazepam treatment significantly reduced anxiety and did not affect locomotor activity in the OF test.

These results give a face and constructive validity to the animal model and encourage its use in future studies related to anxiety.

### Biography:

[Zouhra Doukkali](#) is Doctor of Drug Sciences, Associate member of the Pharmacodynamics Research Team, Pharmacology and Toxicology Laboratory, Temporary teacher at [ISPITS in Rabat](#). Born on 26-09-1981 in Sidi Kacem, University Diploma in Biostatistics and Research Methodology, in faculty of medicine and pharmacy. in 2017 she had my National Doctorate, Faculty of Medicine and Pharmacy of Rabat. She has a 17 publication in international journals. I have passed several orals and posted communications in the scientific congress. I have participated to 3rd edition of the International Symposium of Young Researchers in [Neurosciences](#) Faculty of Sciences Rabat • Mohammed V University from November 12 to 14, 2021, She was as a member of the committee of organization.



Zouhra Doukkali  
ISPITS in Rabat

Received: 30/11/2021; Accepted: 01/12/2021; Published: March 28, 2022