

Diploma thesis - erratum

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Topic: Emotional transition and neurostructural changes in mouse models of autism

In the chapter 5.2.2 Second protocol, the definition and description of the used ethological parameters was insufficient. Additionally, in the chapter 6.1.2 Second protocol – FAMD & MFA analysis of animal behaviour, certain graphs needed more detailed description. Therefore, these topics will be elaborated below.

5.2.2 Second protocol

Time (duration) and frequency of episode occurrence of rearing, self-grooming, digging, demonstrator following and sniffing was measured. An occurrence of an episode (frequency) was marked and time was started when a listed condition have begun (Table 1). Duration of the episode was then measured until the behaviour stopped.

Parameter	Definition of Acceptor's behaviour
Sniffing to nose	Sniffing to demonstrator's nose (nose-to-nose sniffing)
Sniffing to body	Sniffing to demonstrator's body with the exception of a nose and anus
Sniffing to anus	Sniffing to demonstrator's anus
Rearing	Standing on its hind legs, either in the open space or leaning on surfaces and conspecifics
Digging	Digging the bedding, either with paws or its head (diving and re-emerging)
Self-grooming	Grooming and licking its fur
Following	Following the demonstrator around the cage

Table 1 Definitions of ethological parameters

6.1.2 Second protocol – FAMD & MFA analysis of animal behaviour

Graphs 5E and 5F (Figure 4 – *incorrect figure numbering, correct Figure number is Figure 5*) show a correlation circle of all ethological parameter both for their episode frequency occurrence and duration per episode. Parameters are plotted with the dependence on the x axis (First dimension) and y axis (Second

dimension). Additionally, the length of the arrows show the size of variability contribution into the dataset. Clusters of parameters and/or their mutual arrow position show a possible presence of a correlation between parameters.