

**SUPPLEMENT 2 TO THE CALL OF THE 37TH OTDK
BIOLOGY SECTION**

AUTHOR CONTRIBUTION

I, the undersigned **Bautista Soldevila Áron**, declare that I have participated in the following work processes for the paper submitted to the 37th OTDK **The function of brain lateralisation in *Drosophila* decision-making**:

Subtasks ²	Extent of participation (on a five-point scale [#])
Handling and crossing of the <i>Drosophila</i> stocks. ^{e1}	5
Adopting the immunolabeling protocol for single brain dissections. ^{e2}	4
Immunohistochemistry and confocal microscopy ^{e3}	5
Statistical processing of data ^{e4}	4
Carrying out the behavioral tests ^{e5}	5

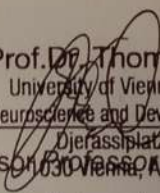
Date: Vienna, 2025.01.

Bautista Soldevila Áron

Student submitting the TDK paper

Bautista Soldevila Áron

I confirm that the information contained in the declaration is correct:


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#Explanation:

Please rate your extent of involvement in the work process on a five-point scale. The meaning of each value on the scale:

5 – After preparation, I completed the whole task independently, to the extent required for the project.

4 – After preparation, I completed more than half of the whole task independently, to the extent required for the project.

3 – After preparation, I completed more than half of the subtask independently, to the extent required for the project.

2 – After preparation, I completed less than half of the subtask independently, to the extent required for the project.

1 – I completed the subtask with continuous assistance to the extent required for the paper.

^{e1} Keeping the flies fed and hydrated, making sure they are healthy and selecting the flies with the correct genotype for the experiments.

^{e2} This step involved making sure I knew which electrodes belonged to which flies, to achieve this I used labeled vials which only contained a single brain. The challenge came from finding a balance between keeping the brains and managing the additional time that arose from having e.g.: 20 vials per genotype with 1 brain as opposed to having 1 vial with 20 brains per genotype. Johann Markovitch helped me with ideas on what I can change about the protocol and what I can keep. For review of the protocol please refer to the OTDK thesis.

^{e3} This step involved dissecting the flies and staining their brains with primary and secondary antibodies, then scanning them under the confocal microscope and analyzing the results in the ImageJ software.

^{e4} I received R code from Johann Markovitch which I then customized to fit the needs of my experiments, I also used ChatGPT for this end.

^{e5} I carried out the FlyPAD experiments and analyzed the data with the device's analysis software.