

Adult Neurogenesis Lab



What is this work about?

The work of the group focuses on both basic and therapeutic aspects of the **formation of new neurons in the adult brain**. Special attention is given to the effect of the physical exercise and an enriched environment or stress.

Our collaborator

[Dr. José Luis Trejo](#)
Principal Investigator

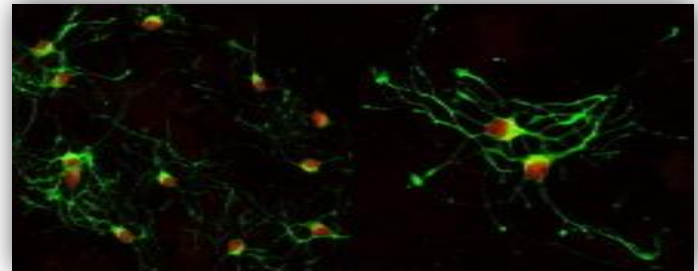


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What problem did they face?

The group was looking for a relevant relationship between the composition and number of the different subpopulations of immature neurons in the adult murine hippocampus and the memory acquisition/persistence behavioral parameters.



They worked **full day during more than 8 weeks** analyzing every correlation between the variables captured. To do that, they used classical statistical packages but very few relevant relationships were identified mainly due to the extremely high amount of manual work required.

Which was the contribution of **AutoDiscovery** ?

AutoDiscovery took **less than 2 hours** to find out not only all the correlations that the group had identified during their 8-weeks intensive work but also several key correlations that, with a further confirmatory phase, completed the original hypothesis.

The main AutoDiscovery features applied to this work were:

- 👍 The **automatic consolidation** of the hippocampal neurogenic, learning and anxiety tasks results.
- 👍 The evaluation of **relationships between ratios of variables**. In fact, many of the key findings were based on them.
- 👍 The **automatic results sorting**, which greatly helped to minimize type II error.

SS-1



Success Case Sheet