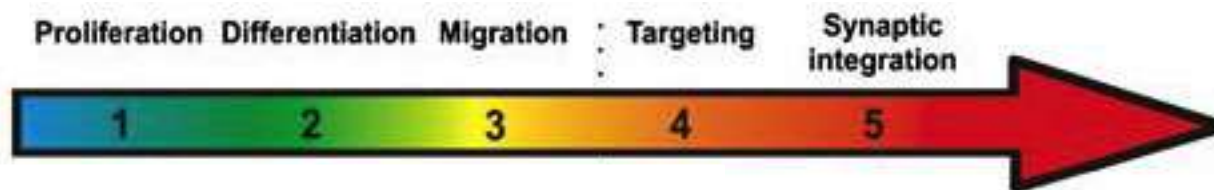


Neurogenesis

1. Neural stem cells (NSC) were extracted from the subgranular zone of the dentate gyrus of the **hippocampus** of adult mice.
2. NSC were induced to proliferate → “Neurosphere” formed
3. Addition of Test compounds: Saline / **Harmine** / **Tetrahydroharmine** (0.5μM).
4. Assessment of capacity of compounds to promote:
 - a) Early stages of Neurogenesis (young neurons): **TuJ1** staining (**green**)
 - b) Neuronal Maturation (mature neurons): **MAP-2** staining (**red**)



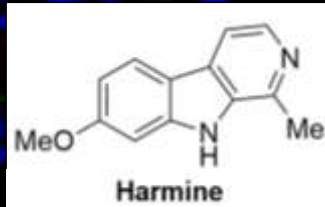
Distal region of Neurosphere

No effects after saline

Color code

- Blue staining*: cell nuclei (marks all cells)
- Green staining*: young neurons
- Red staining*: mature neurons

Harmine Stimulates Neurogenesis in vitro...

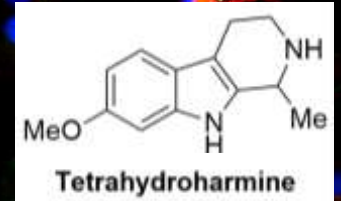


Color code

-Blue staining: cell nuclei (marks all cells)

-Green staining: young neurons

-Red staining: mature neurons



...and so does THH

Color code

-Blue staining: cell nuclei (marks all cells)

-Green staining: young neurons

-Red staining: mature neurons