

METABOLOMICS

Studies Conducted

- Quantification of neurotransmitters from Planarian extract
- Quantification of neurotransmitters from biological fluids
- Quantification of bio-pesticides from plant extract
- Quantification of isoflavonoids from plant root extract
- Quantification of plant growth hormones

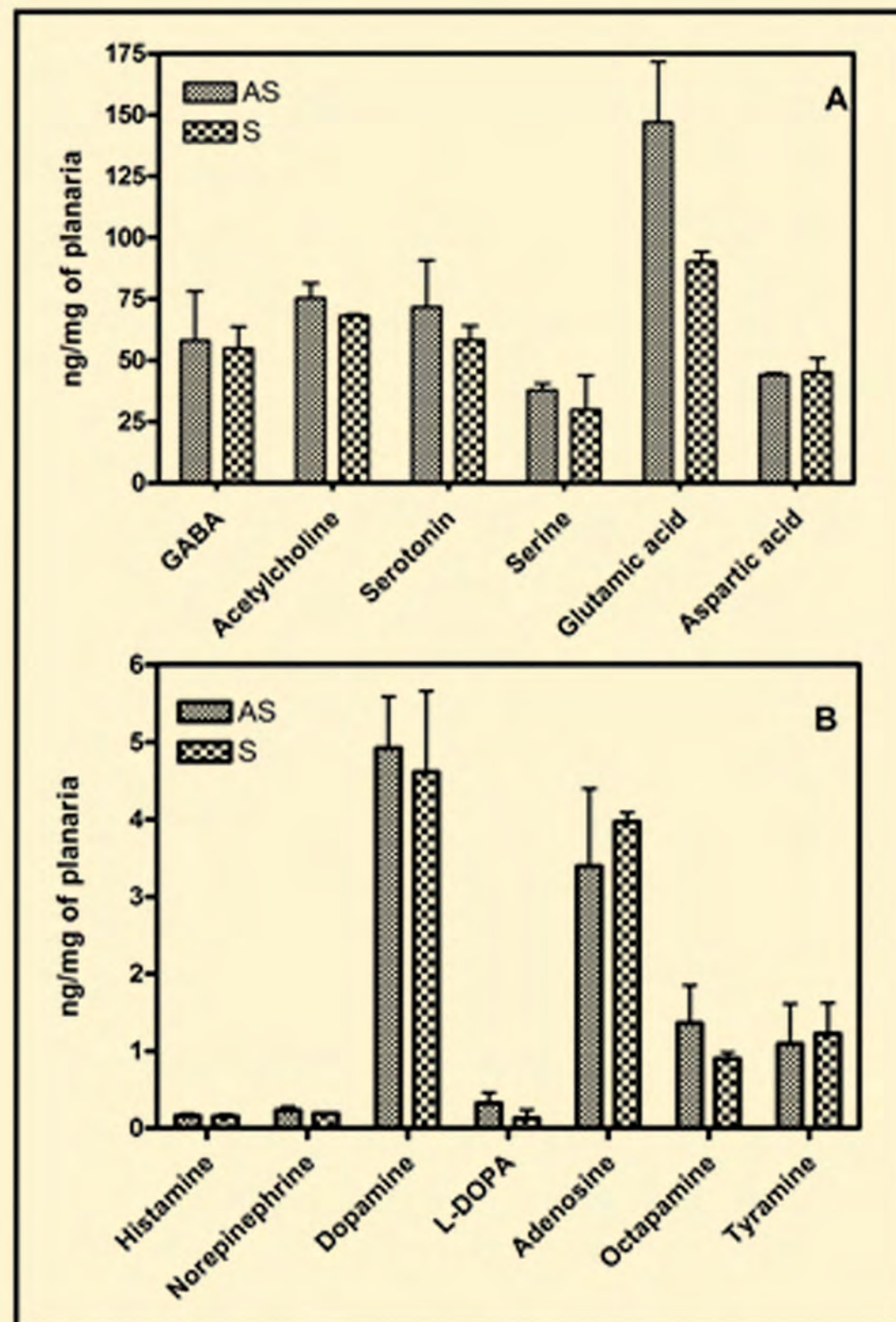
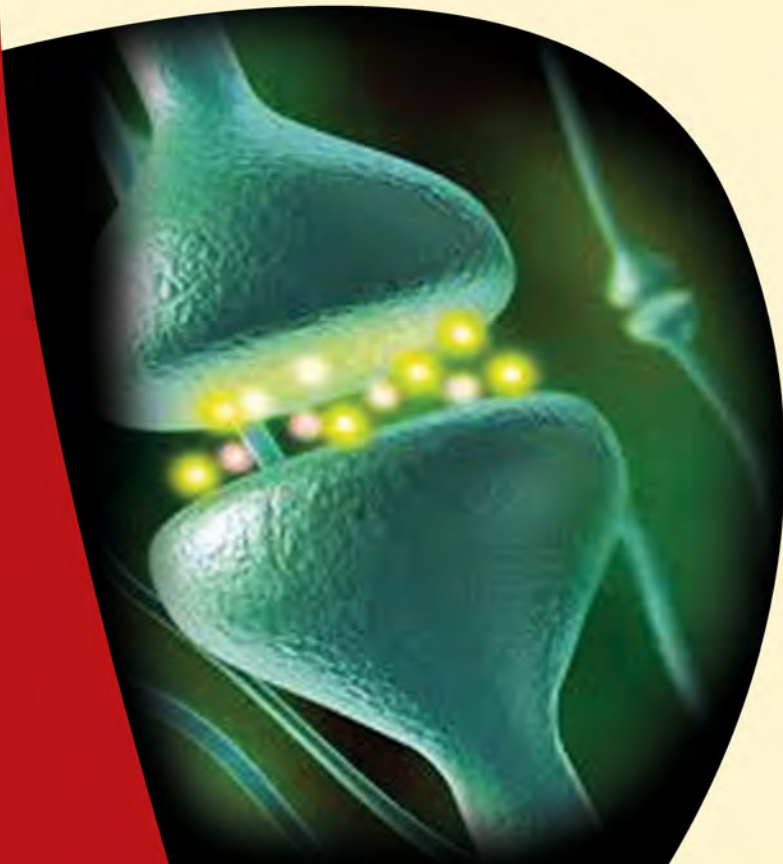
Methods for quantification developed at C-CAMP

- Quantification of amino acids from biological fluids
- Quantification of Olanzapine (Anti-psychotic drug) and its metabolites from sera



Quantification of neurotransmitters from Planarian extract

C-CAMP has helped in the development of a method for neurotransmitter quantitation from biological extracts and whole organisms like planaria.



By comparing the amounts of neurotransmitters expressed in sexual (S) versus asexual (AS) planaria, one may be able to better understand the potential functions of these neurotransmitters in regeneration of planaria (both Posterior (A) and Anterior (B) re-generation).

LC-MS/SRM chromatogram of 13 isoflavanoids

C-CAMP has developed a mass spec based method to quantify 13 isoflavonoids from plant root through its Metabolomics expertise and platforms. These results could help in identifying those isoflavonoids from plant extract that contribute to potential therapeutic properties eg. anti-cancer, anti-inflammatory etc.

