# Current Research Interest

In general, I am interested in CNS Pharmacology and Toxicology of chemicals of natural or synthetic origin. Special consideration is given to study the role of serotonin and dopamine and their multiple receptors on behavioral parameters such as learning and memory, analgesia, inflammation, thermoregulation, food intake, anxiety, Psychosis, motor activity, coordination and seizures. Some of the topics of interest are the following:

**-methamphetamine-induced hyperthermia**,

**-a possible selective antagonist for the central actions of methamphetamine,**

**-methamphetamine-induced anorexia,**

**-involvement of some 5-HT receptors in methamphetamine-induced locomotor activity**,

**-effect of cathinone, the active constituent of Khat on conditioned avoidance response and feeding behavior**,

**-the effects of some opioid drugs on conditioned avoidance response** acquisition,

**-increased toxicity of methamphetamine with morphine dependency,**

**-effect of (-) cathinone, a psychoactive alkaloid from khat (Catha edulis Forsk.) and caffeine on sexual behavior**,

**- the quipazine- and TFMPP-increased conditioned avoidance response: role of 5-HT1c/5-HT2 receptors**

**-antipsychotic properties of some synthetic chemicals**,

**-the role of brain 5-HT in the analgesic action of centrally acting sympathomimetics**,

- the analgesic, anorexigenic, activity enhancement of rigid derivatives of amphetamine (benzonorbornenes).