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Novel modulators of allosteric modulators of metabotropic glutamate (mGlu) receptors as possible psychotropic substances.

The Internship will take place at the Institute of Pharmacology, Polish Academy of Sciences in Krakow, Poland in the Department of Neurobiology. The junior researcher will be involved in a short project on the evaluation of the potential allosteric modulators of metabotropic glutamate (mGlu) receptors. He/she will work with the cloned mGlu receptors evaluating the efficacy of new agents as a positive or negative allosteric modulator (PAM/NAM). HEK293 cell line containing an inducible expression system (Flp-In T-Rex 293 cell line, Invitrogen) of mGlu receptor type 4, 7, and 8 will be used. HTRF (homogenous time-resolved fluorescence) cAMP dynamic 2 assays will be performed in order to measure the influence of the compounds on the forskolin-induced cAMP production. The selected compounds will be tested *in vivo* to measure their possible anxiolytic, antidepressant or antipsychotic activity with the battery of tests used in our laboratory.