

## YOUR PARTNER IN PROTEIN BIOCHEMISTRY



rent-a-lab is a contract research organisation providing services mainly in the field of radioactive bioassays.

Services are customized to meet specific needs reaching from individual small scale solutions to microplate solutions for medium-throughput screening (MTS).

We offer:

### Receptor binding:

- saturation analysis
- homologous displacement
- heterologous displacement

with [ $^3\text{H}$ ]- or [ $^{125}\text{I}$ ]-labeled ligands either on membrane fragments or intact cells.

### Receptor mutation studies:

- Production and characterisation of transient transfected cell lines
- $\text{EC}_{50}$ -determination of test compounds on receptor variants

### *Ex vivo*- receptor binding assays:

Determination of *in vivo*-receptor occupancy after test compound application in rat or mice.

### GPCR-pharmacology (functional) via [ $^{35}\text{S}$ ]GTP $\gamma$ S binding tests:

- **classic**  
for the measurement of G-protein activation
- **G $\alpha$ -subtyp-specific**  
to differentiate between signal transduction pathways, e.g. G $\alpha_{q/11}$  (Calcium), G $\alpha_s$  (cAMP $\uparrow$ )

### Radioimmunoassays (RIAs):

with [ $^3\text{H}$ ]- or [ $^{125}\text{I}$ ]-labeled tracers to quantify your molecule of interest in

- blood serum/plasma
- tissue extracts etc.

### Additional services:

- micro-dissection of rat brains
- generation of membrane fragments
- lyophilisation of samples

Please visit our homepage for details:

**[www.rent-a-lab.biz](http://www.rent-a-lab.biz)**