



# High Throughput Screening Laboratories

## Screening and Target Validation Department equipment

The group is equipped with state-of-the-art equipment which is used in the different steps of the screening and target validation process, such as different HTS liquid handling workstations for dispensing samples or reagents: Biomek FX, Packard EP3 and Tecan Aquarius (with dual arms 96/384 for dispensing and Span8 and stackers for sequential processes or carrousel for random plate access), Thermo Multidrop<sub>Flex</sub>Drop and Tecan Genesis (8 tips) units.

In addition, the HTS laboratories are fully equipped with a semi-automated platform for screening read-out, which covers all the most common assay types (colorimetric, luminiscence, fluorescence, HTRF, High Content Screening, immunofluorescence, radiolabeled ligand binding, etc), with laboratory automation for 96-well and low volume 384-well microtitre plate formats. That equipment includes Packard Topcount Wallac Victor II, VIPR-II, FLIPR, TecanUltra, Spectrafluor, Typhoon, image analyzer, electrophysiology: Patch Clamp, High Content Screening (Arrayscreen, Pathway BD), Cedex, fluorescence and confocal microscope.

Fundación MEDINA has a completely automated Select T cell culturing robot, making it possible to maintain a large number of cell lines in parallel to be used in different assays.

Additional instruments available include HydroSpeed Tecan, Biotek Izasa plate washers and API4000, Micromass Quatro mass spectrometers.