

High Throughput Research Resources at the Chemical Screening Center Beverley M. Rabbitts and R. Scott Lokey Department of Chemistry & Biochemistry, UC Santa Cruz

Mission

Why do one experiment when you could do hundreds? The UCSC Chemical Screening Center (CSC) is a shared research facility providing screening technologies that aid in the discovery of therapeutic agents and biomedical research tools. The CSC is dedicated to improving human health, pushing the limit of scientific knowledge, and educating the next generation of biomedical scientists.





New lab space 465 Physical Sciences Building (CSC Office is 456 PSB)





New logo and *New website* <u>https://ucsccsc.sites.ucsc.edu/</u>

Aftention all users: please cite **RRID SCR_021114** in your acknowledgements.

Capabilities

Compound pinning, dilution series, cherry picking, plate reformatting, plate sealing, and desiccator.

Coming soon acoustic dispensing as low as 25 nl! And a user-friendly "personal pipettor."

Robotic plate handling with stackers.

Coming soon workstations with robotic arms and an automation scheduler. Integrated plate seal/peel, centrifuge, incubators, barcode reading, delidders, random access plate hotels.

Fast multimode plate reader with onboard shaker.

Coming soon monochromator-based plate reader with laser for alpha screen.

Plus we accumulate reference database of results collected for our compounds in a variety of assays, including cytological profiling, e.g. for guilt-by-association mechanism of action identification of a novel compound.

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OFFICE of RESEARCH



We also acknowledge the UCSC Office of Research, Physical and Biological Sciences Division, and Department of Chemistry and Biochemistry for \$100k in matching funds for compound libraries.