

Resource Summary Report

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Assay Guidance Manual

RRID:SCR_006910

Type: Tool

Proper Citation

Assay Guidance Manual (RRID:SCR_006910)

Resource Information

URL: <http://www.ncbi.nlm.nih.gov/books/NBK53196/>

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Description: The collection of chapters in this eBook is written to provide guidance to investigators who are interested in developing assays useful for the evaluation of collections of molecules to identify probes that modulate the activity of biological targets, pathways, and cellular phenotypes. These probes may be candidates for further optimization and investigation in drug discovery and development. Originally written as a guide for therapeutic project teams within a major pharmaceutical company, this manual has been adapted to provide guidelines for scientists in academic, non-profit, government and industrial research laboratories to develop potential assay formats compatible with High Throughput Screening (HTS) and Structure Activity Relationship (SAR) measurements of new and known molecular entities. Topics addressed in this manual include: * Development of optimal assay reagents. * Optimization of assay protocols with respect to sensitivity, dynamic range, signal intensity and stability. * Adopting screening assays from bench scale assays to automation and scale up in microtiter plate formats. * Statistical concepts and tools for validation of assay performance parameters. * Secondary follow up assay development for chemical probe validation and SAR refinement. * Data standards to be followed in reporting screening and SAR assay results. * Glossaries and definitions. This manual will be continuously updated with contributions from experienced scientists from multiple disciplines working in drug discovery & development worldwide. An open submission and review process will be implemented in the near future on this eBook website, hosted by the National Library of Medicine with content management by the National Center for Advancing Translational Sciences (NCATS, <http://ncats.nih.gov/>), the newest component of the National Institutes of Health (NIH).

Abbreviations: Assay Guidance Manual

Resource Type: book, data or information resource, narrative resource

Defining Citation: [PMID:22553861](https://pubmed.ncbi.nlm.nih.gov/22553861/)

Keywords: high-throughput screen, assay, molecule, probe

Resource Name: Assay Guidance Manual

Resource ID: SCR_006910

Alternate IDs: nlx_144650

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260905T132603+0000

Ratings and Alerts

No rating or validation information has been found for Assay Guidance Manual.

No alerts have been found for Assay Guidance Manual.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Coussens NP, et al. (2018) Assay Guidance Manual: Quantitative Biology and Pharmacology in Preclinical Drug Discovery. Clinical and translational science, 11(5), 461.

Zhang H, et al. (2015) Quantitative RT-PCR assay for high-throughput screening (HTS) of drugs against the growth of *Cryptosporidium parvum* in vitro. Frontiers in microbiology, 6, 991.

Moriev R, et al. (2013) Identification of Novel IGF1R Kinase Inhibitors by Molecular Modeling and High-Throughput Screening. Acta naturae, 5(2), 90.