| **Center for Drug Discovery** |
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| **The WashU NEON Compound Library: A New Resource for Screening**  |
| The [Center for Drug Discovery](https://cdd.wustl.edu/) (CDD) has created a crowd-sourced small molecule collection, the **WashU NEON collection**, comprised of compounds synthesized or compiled for a variety of hit-to-lead and lead-to-candidate campaigns by CDD and/or other WashU investigators. This expanding chemical library is available free of charge, as pre-plated sets, to all WashU faculty with **screen-ready assays** to enable drug discovery research. Should hits be identified from primary screening, additional compound may be provided, upon request, for follow-up validation assays. It is the intent for **NEON** to generate chemical starting points for in-house medicinal chemistry and drug target potency optimization, and potentially foster collaborative research connections between Wash U investigators. All compounds have been approved by the respective P.I.s for inclusion in the **NEON** collection.Compounds are provided as 2µl at 10mM in 100% DMSO in Greiner 651261 96-well PP V-bottom plates. Each plate contains 80 compounds, with Columns 1 and 12 kept empty. To request a copy of **NEON**, please fill out the required questionnaire below.  Direct completed questionnaires and questions to Maxene Ilagan, PhD, Director of the HTS Core: ilaganmg@wustl.edu. |
| PRINCIPAL INVESTIGATOR |  | DATE |  |
| DEPARTMENT |  |
| PROJECT TITLE |  |
|  |

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| DRUG TARGET | *What is the drug target and the understanding of the type of intervention desired (activator, inhibitor, agonist, antagonist, allosteric modulator, other)?* |  |
| PRIMARY SCREENING ASSAY FORMAT | *Please check all that apply:*\_\_\_96-well \_\_\_384-well \_\_\_Other, please specify:\_\_\_\_\_\_\_\_\_\_\_\_\_\_Biochemical \_\_\_Cell-based \_\_\_Target-based screen \_\_\_Phenotypic screen |  |
| ASSAY DESCRIPTION/WORKFLOW | *Briefly describe the primary screening assay that will be used to interrogate the NEON library (provide citation, if available). What is the current throughput (# compounds tested per week)?:* |  |
| ASSAY METRICS | *Is the assay performing robustly at the bench and is it ready for screening? If so, please provide supporting data (e.g., CVs, dynamic range, Z’ factors). Which reference compound was used as the assay positive control?* |  |
| FOLLOW-UP ASSAYS | *What secondary (counterscreen, orthogonal, etc) assays are available for hit validation?* |  |

 *Do you have small molecule compounds that you would like to contribute to the NEON collection?* Yes/No