

Screening Application for RNA Interference or Chemical Modulation

Name:	Lab Name:
E-mail:	Department:
Phone#:	Institution:
Fax #:	Position in Lab:

1) Head of laboratory? Yes / No

If no, do you plan to stay in your current lab for at least the next year? Yes / No

If no, briefly describe whether and how you plan to continue work on this screen in your next research position:

2) Goal and Biological Motivation

Please provide a brief description of the biological question you seek to answer through this screen (2-3 sentences only):

3) Literature Precedent

Please list one review article on the pathway or protein targeted by your screen (not necessarily authored by you) that would provide good background reading for the Review Committee (if possible, include a PDF of the article with your application):

4) Assay Details

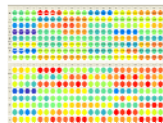
Please provide a brief description of your assay, including readout specificity, signal range, available positive controls, ~cost/assay well, available funds to cover screen:

a) Are there safety concerns associated with your assay? Yes / No

b) If yes, briefly describe:

c) Assay type: biochemical / cell-based / other; (if other, please describe briefly)

d) Does your assay utilize *human embryonic stem cells*? Yes / No



Quellos High Throughput Screening Core

The Institute For Stem Cell And Regenerative Medicine, UW MEDICINE

e) **Desired Screening Library:**

RNA interference screening:

Currently available siRNA libraries; kinase for pilots and extended druggable genome:

Small Molecule screening:

Currently have ~114k compounds; diversity or focused (e.g., CNS, kinase, ion channel) libraries.

Briefly indicate preference for broad-based or focused screening:

5) Secondary Assays

Briefly describe 2-3 secondary assays that you will use for further characterization of compounds/siRNA that score as positives in your primary screen. Include a brief explanation of how they will help with prioritization of positives.

6) Screening Timetable

If your assay is still being developed, please provide a realistic estimate as to when your assay will be ready for pilot screening experiments in the Quellos HTS Core:

7) Research Impact and Outcomes

Please provide a description of how hits from siRNA or small-molecule screening will be used in follow-up studies. If screening small-molecules, what are your follow-up chemistry plans (*i.e.*, med-chem optimization?; if so, by whom and when?):

Wish to be evaluated for a Quellos Research Acceleration Award for HTS support?

If you have questions related to this application please contact:

[UW HTS Core](#)

www.depts.washington.edu/uwhts