Supporting information for

**A multi-disciplinary team-based classroom exercise for small molecule drug discovery**

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Virtual Drug Discovery Group Exercise

Candidate Number:

Name:

Team:

# Plagiarism Declaration

Please complete the following declaration by adding your name and the date.

Submission of an electronic copy of this report through **[the VLE]** indicates that you agree with the statements.

I certify that […] all material in this assignment is my own work, except where I have indicated with appropriate references.

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Patent Application Form

# Request for grant of a patent

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Your reference: |  | |
| 2 | Full name of applicant or of each applicant: |  | |
| 3 | Title of the invention: |  | |
| 4 | Inventorship:  Are all the applicants named above also inventors? | YES | NO |

## Figures:



Scheme 1



Figure 1

[Include all your figures, remembering to number your compounds and the figures to refer to in the text. **ChemDraw settings** – use RSC (2 Column) Document settings (found under: File – Apply Document Setting from –) – this will give you good-sized compounds that won’t take up too much space.]

## Abstract:

[maximum 150 words – see Moodle for examples of abstract structure]

## Field of Invention:

[Introduction and Background, Brief introduction of the disease target and rationale for strategy you were given in Workshop 1, and of the hit fragments you began with. This should be no more than 1 page in the template setting: **maximum 1 page**]

## Detailed Description:

[A short description of how you developed the final lead compound including the structural information, the biochemical assays run and the results obtained. Here you should explain the changes you made over the course of the workshops. Justify why you made those choices and explain what the outcome of those choices were. This should be a **maximum of** **4 pages**. Your submissions in the weeks before will help here to remind you of your thinking.]

## Experimental Procedure:

[Detail the synthesis you have developed to make your lead compound – remember to refer to your figures in the Figures Section. Give reasons for the choice of reactions and chemicals you have chosen. Give a **brief** overview of the methods that you have used in your assays and the equation(s) that you have used to fit your data. **This section should be a maximum of 3 pages (max 1-2 paragraphs on assay methods).]**

[General Notes :

Remove all text in square brackets [such as this].

Note the page **limits** – don’t feel the need to go overboard.

Give references which support your arguments as to why you made the changes and to show from where you got your reactions. Use RSC (number) style.

ChemDraw settings – use RSC (2 Column) Document settings (found under: File – Apply Document Setting from –) – this will give you good-sized compounds that won’t take up too much space.

PDB structures – don’t forget to draw protein structures on a white background and to ray trace your images before saving as png. Refer back to the handbook from the Pymol workshop if you need reminding about how to do this. The size of figures can be adjusted within Word using the Picture menu or in graphics editing software (*eg* GIMP, Corel Draw, Photoshop)

Assay data – choose a suitable graphical format to present your data and remember to label your axes (including units) in your figures. Refer back to the handbook from the SciDaVis workshop if you need reminding about how to do this. You should make sure that you state your assay n, and what your error bars represent in your figure legend.

If you have any questions – please don’t hesitate to contact one of us.]

## References:

1. [Use RSC (number) style.]

2.

3.

[Etc.]