

## Guidance for Rigor, Reproducibility and Transparency seminar speakers

We are looking forward to your seminar on rigor, reproducibility and transparency as it relates to your research. This seminar should be different from a typical research talk as it should be focused on the methods, approaches and processes that you use to ensure the rigor and reproducibility of your research.

As you develop your talk for this series, here is some guidance about how this talk should be different from a typical research seminar:

1. Approximately 50% of your talk should be devoted to aspects of rigor, reproducibility and transparency in your research. This may include the following topics (the list below is adapted from PAR 17-341: <https://grants.nih.gov/grants/guide/pa-files/PAR-17-341.html>):
  - a. Evaluation of foundational research underlying a project (i.e., scientific premise)
  - b. Rigorous experimental design and data interpretation, including
    - i. Validation of methods, materials and models
    - ii. Data science and quantitative approaches
    - iii. Potential pitfalls and caveats to your research
  - c. Consideration of relevant biological variables such as sex
  - d. Authentication of key biological and/or chemical resources
  - e. Data and material sharing, including open code
  - f. Publication inclusion
  - g. Record keeping
  - h. Transparency in reporting
  - i. Other methods you use to ensure that your research is rigorous, reproducible and transparent
2. Please time your talk to be 30-40 minutes so there is plenty of time for questions
3. Keep in mind that trainees in the audience represent a variety of fields of study at the Fred Hutch, Seattle Children's and UW, including biochemistry, immunology, epidemiology, infectious disease, biostatistics, structural biology and computer science/engineering. It is ideal to deliver your talk at a level in accordance with the audience background and knowledge.

Please let us know if you have any questions.

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