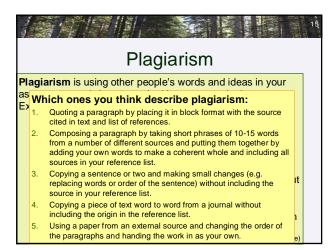
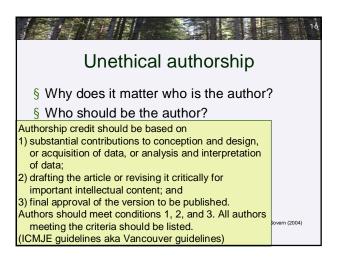
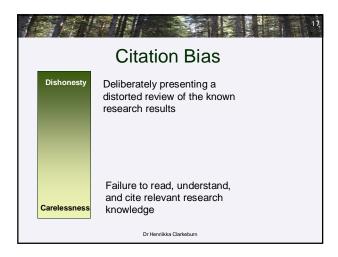
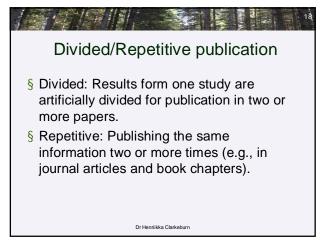


Ethical questions in research publication § Plagiarism § Uethical authorship § Citation bias § Divided and Repetitive publication § Falsification/fabrication § Undeclared conflict of interest









Falsification/fabrication

- § Falsifying results: Modify, omit or present one's own research findings or methods in a way that it distorts the original findings in a way that distorts the result
- § Fabricate results: Present results or methods that have never been produced or used

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Undeclared conflict of interest

§ Authors should always disclose all financial (funding) and personal relationships which may have distorted their work.

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Peer review process

- § Author, reviewer and editor share responsibility for scientific quality
- § Bias in the peer review process
 - § Open, single or double blind processes
- § Effect of dysfunctional review process

The purpose of conferences?

- § Why are they organised?
- § What are the benefits?

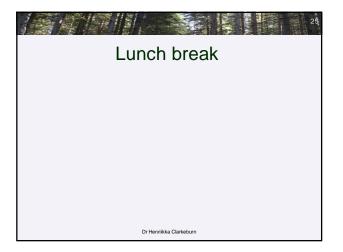
Conference attendance

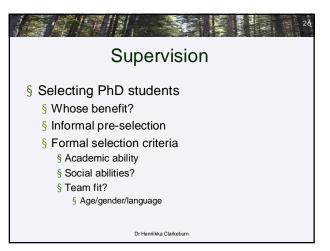
- § Should I go or should I stay?
 - § Use of time
 - § Timing
 - § Funding
 - § Opportunity costs
 - § Match with own research
 - § Who would benefit most
 - § Previous experience

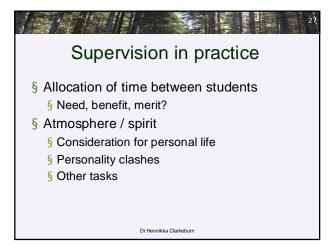
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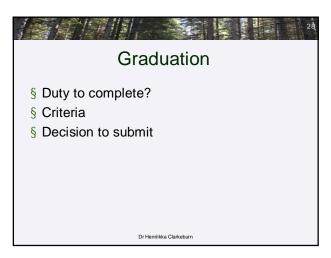
Preparing for the presentation

- § Focus narrow or broad?
- § My research state of the field?
- § What can we assume of the audience?
- § How much do I wish to reveal?
- § Style
- § Time available?









Funding – Society level § Commercial / public funding? § Project / people based? § Program / unrestricted funding opportunities? § Cutting edge / everyday research?

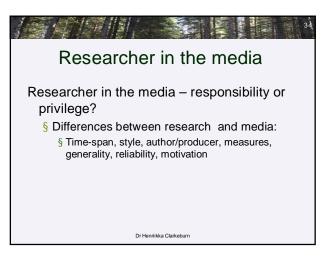


Funding - selection § Providing expert review/assessment § Interpreting expert reviews/assessments § Non-research based criteria § Social impact

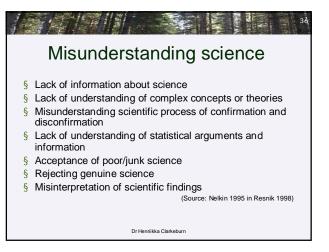
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Managing Funding § Reporting results § Selecting/Supervising students Dr Henrilika Clarkeburn

Dealing with research subjects § Research on animals § CBA, RRR § Research on humans § Informed consent § Intervention / observation § Research on human materials § Tissue / artefacts







Research and personal life

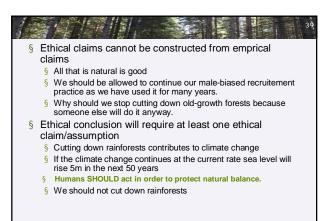
- § Is research different from other jobs?
- § Work / life balance
- § Decision-making opportunities

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Good argumentation § Based on (all) true facts § Concepts are clear and explicitly defined.

- § Concepts are clear and explicitly defined
- § Presenting all reasonable alternatives
- § Focus on the arguments not on the one who makes them
- § Causal links clearly presented
- § Logical argument which is possible and clear
- § Conclusions are true

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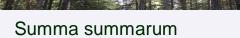


Responding to claims and conclusions

- § Identify the core question within the given claim or conclusion
- § Investigate what facts/values are used to support the conclusion or claim
- § Determine whether claims and conclusions are logically related
- § Focus on the essential

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How to promote ethical standards? § Awareness § Structural traps and encouragement § Consequences § Transparency



- § Science and ethics are interlinked
- § Ethics can be seen as a skill to analyse and present solutions to difficult questions

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- § Beauchamp and Childress (1994). Principles of Biomedical Ethics, 4th Ed. Oxford University Press, New York
- § Resnik, David B. (1998). The Ethics of Science an introduction. Routledge, London.

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