CMC MASTERCLASS

GROUP 3

PAULA SZYMCZAK, MARIA WIESE,
DINGRONG KANG, MARTIN MORTENSEN
IS A HYPOTHESIS-DRIVEN APPROACH ALWAYS OF PREFERENCE IN SCIENCE?

• No, you need background knowledge / exploratory experiments to form a hypothesis

• Advantages:
  • An answer to question
  • Any outcome is a result

• Disadvantages:
  • No truly novel findings
  • Risk of getting too single tracked
WHAT IS MOST IMPORTANT IN SCIENCE: DEVELOP METHODS, UNRAVEL PATHWAYS AND MECHANISMS, DEVELOP CONCEPTUAL MODELS, ETC.?
HOW TO GET THE BEST IDEAS IN SCIENCE – IS THERE A METHODOLOGY?

• Communication - Networking
• Think outside the box
  • Get out of your comfort zone scientifically and personally
• Always ask questions and discuss them
• Never let yourself get stuck – Be open to alternative ideas
HOW TO KNOW WHAT IS NEW IN SCIENCE – AND WHAT IS NEW TO YOURSELF ONLY?

• Networking
• Conferences
• Articles
• Seminars
WHAT IS CREATIVITY IN SCIENCE – ARE YOU CREATIVE?

• Creative ideas
  • Think up new models and questions

• Experimental creativity
  • Optimize processes
  • Use of non-standard methods

• Creative dissemination
  • Alternative medium for dissemination
  • Unusual presentation form