

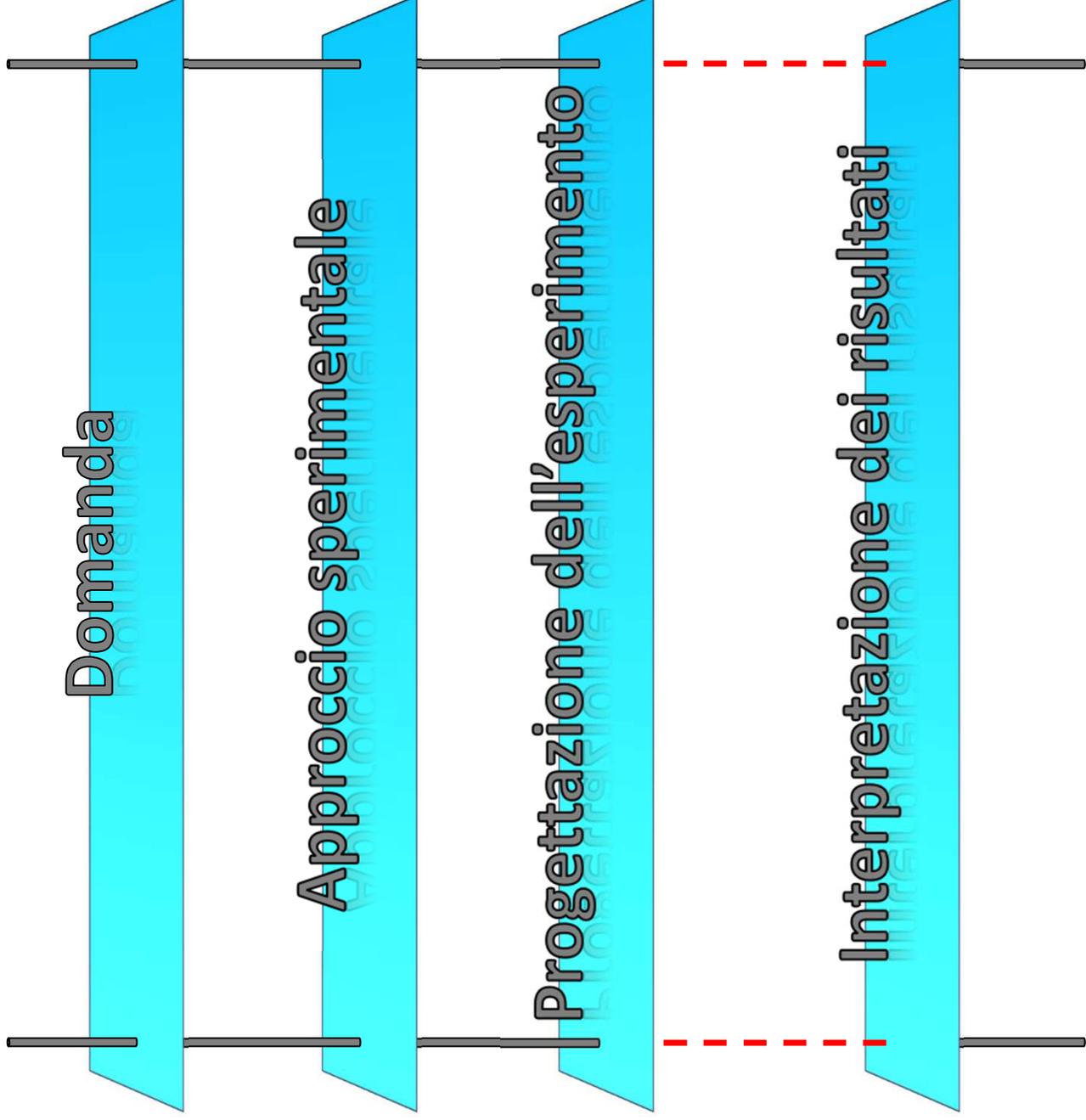
La costruzione del progetto di ricerca

Domanda

Approccio sperimentale

Progettazione dell'esperimento

Interpretazione dei risultati



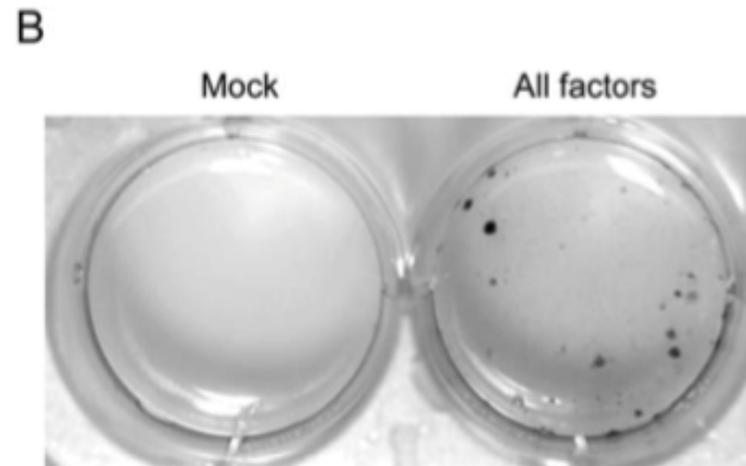
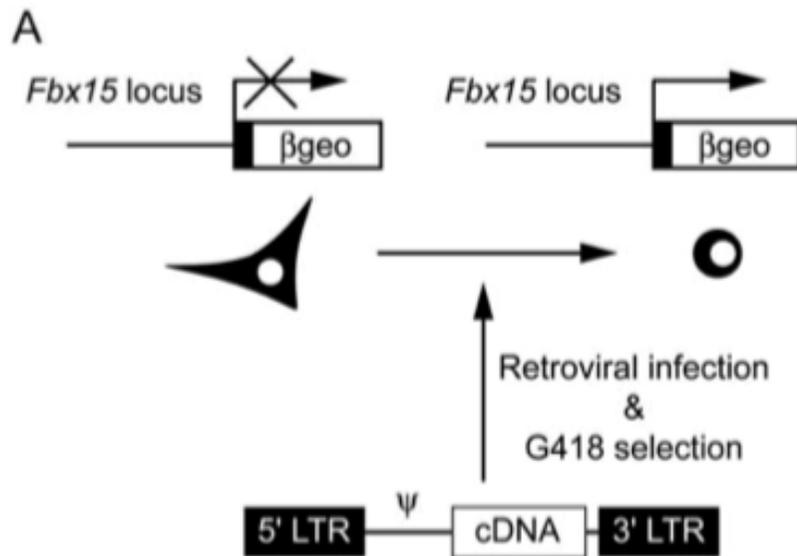
Focalizzare la domanda

Definire chiaramente il problema aiuta molto a trovare un modo per risolverlo

E' possibile convertire cellule somatiche in cellule staminali?

I fattori di trascrizione possono effettuare questa conversione?

Specifici fattori di trascrizione possono effettuare la conversione?



Esiste una concausa microbiologica per il carcinoma a cellule di Merkel?



Si possono trovare tracce genetiche di un agente eziologico?

DNA stampo

Primer 1

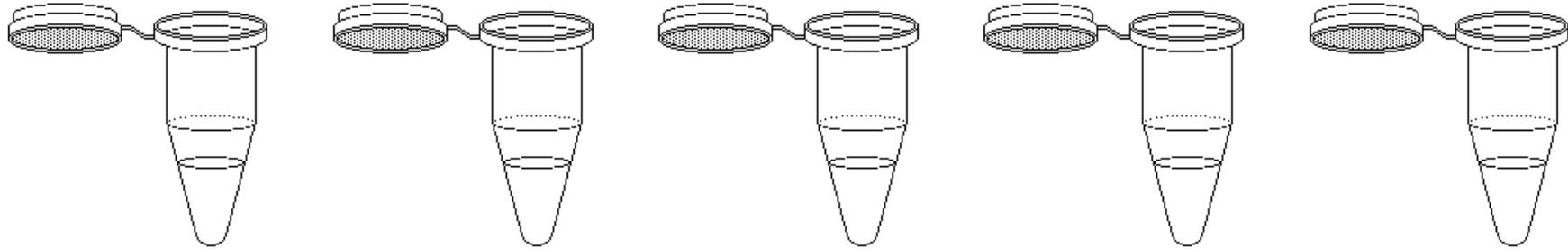
Primer 2

NTP

Tampone 1x pH 8,3



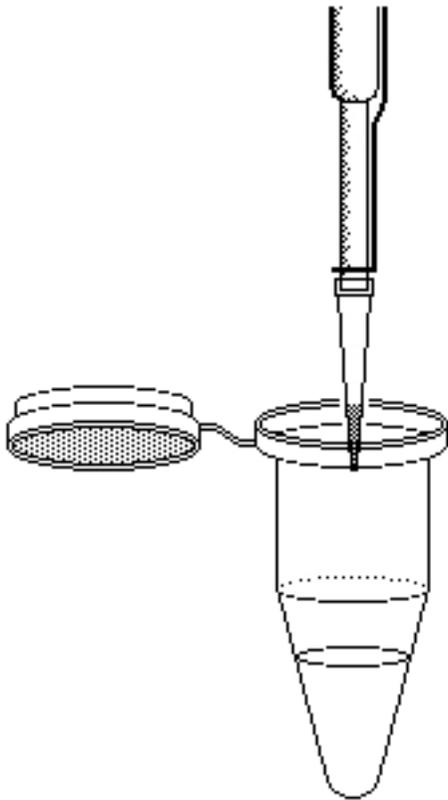
Domanda generica: la reazione è riuscita o no?



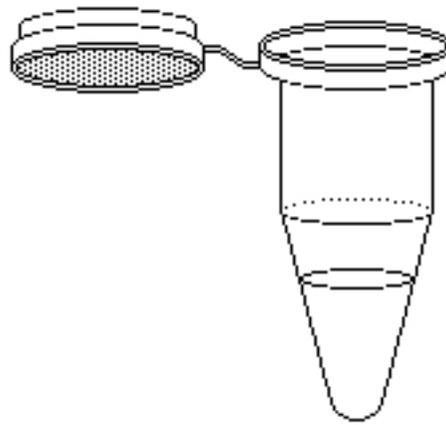
Domanda focalizzata: nelle provette il tampone a pH 8,3 è 1x o 10x?

Titolazione:

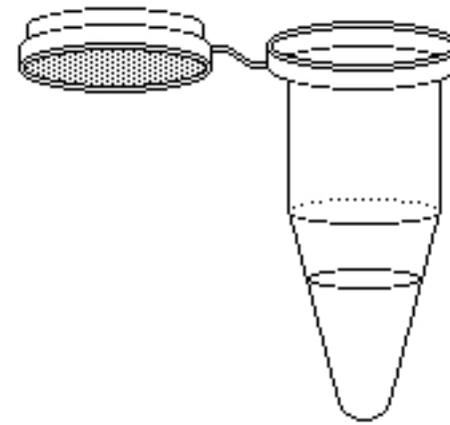
Quanto HCl devo aggiungere per spostare il pH (p. es.) a 5?



PCR



Miscela per PCR
con tampone 1x



Miscela per PCR
con tampone 10x

Osservazioni



Ipotesi



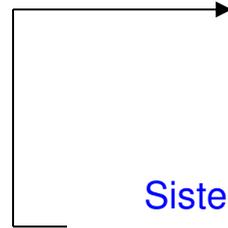
Sistema controllato di osservazioni
riproducibile indipendentemente



Conclusioni



Fatto scientifico



Philosophies of Funding

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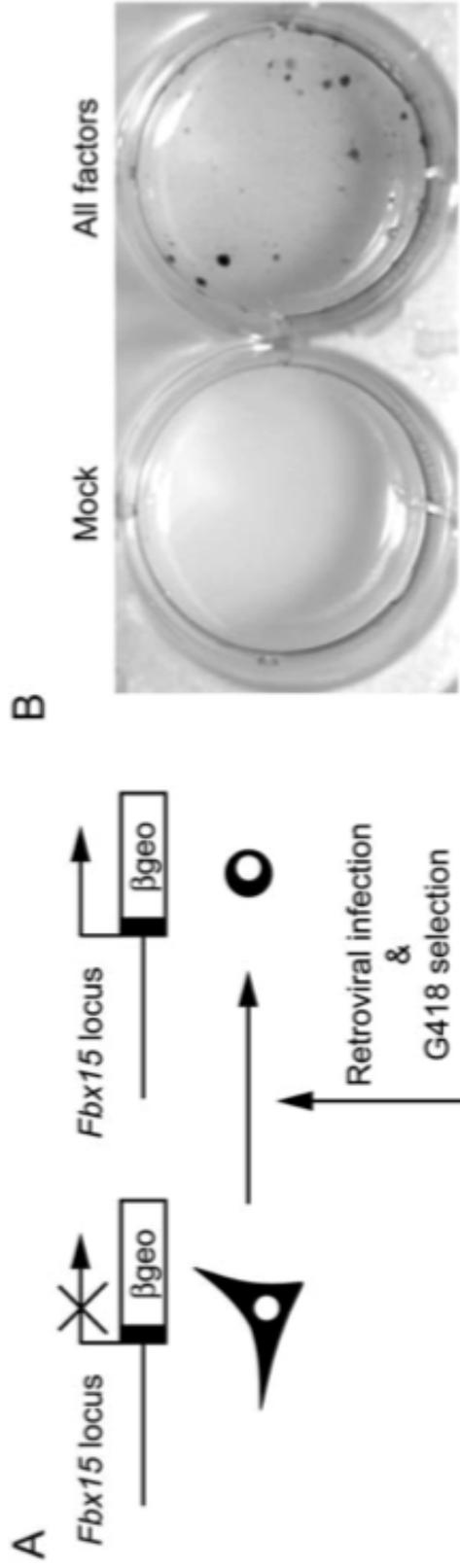
Successful scientific practice encompasses broader and more varied modes of investigation than can be captured by focusing on hypothesis-driven research. We examine the emphases that major US and UK funding agencies place on particular modes of research practice and suggest that funding agency guidelines should be informed by a more dynamic and multidimensional account of scientific practice.

Philosophy is often regarded as abstract and irrelevant to practical concerns. Yet, when it comes to decisions about funding science, philosophical conceptions

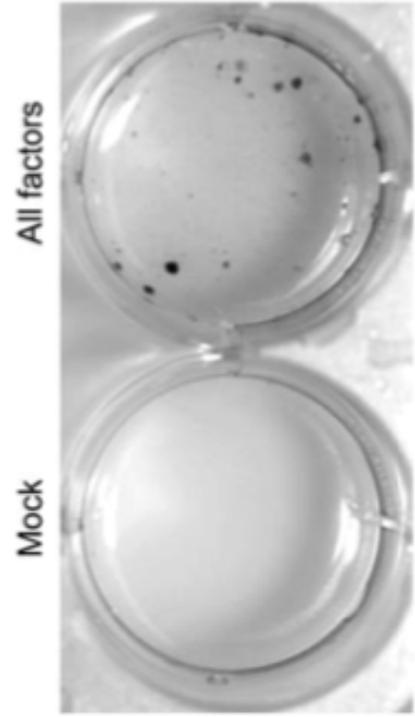
the most crucial arenas in which this widening of perspective must occur is in the funding of science. Although we believe that inspiration, effort, commu-

A Broad Account of Scientific Practice

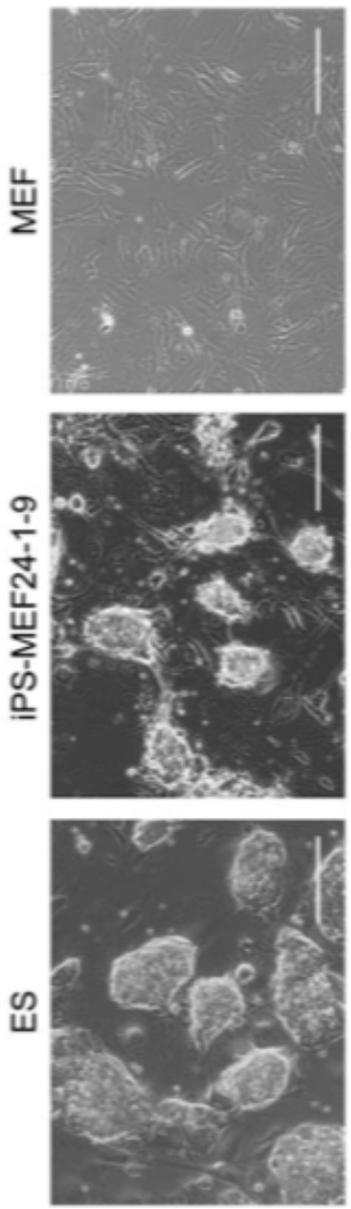
It is standard for scientists, philosophers, and other commentators on sci-

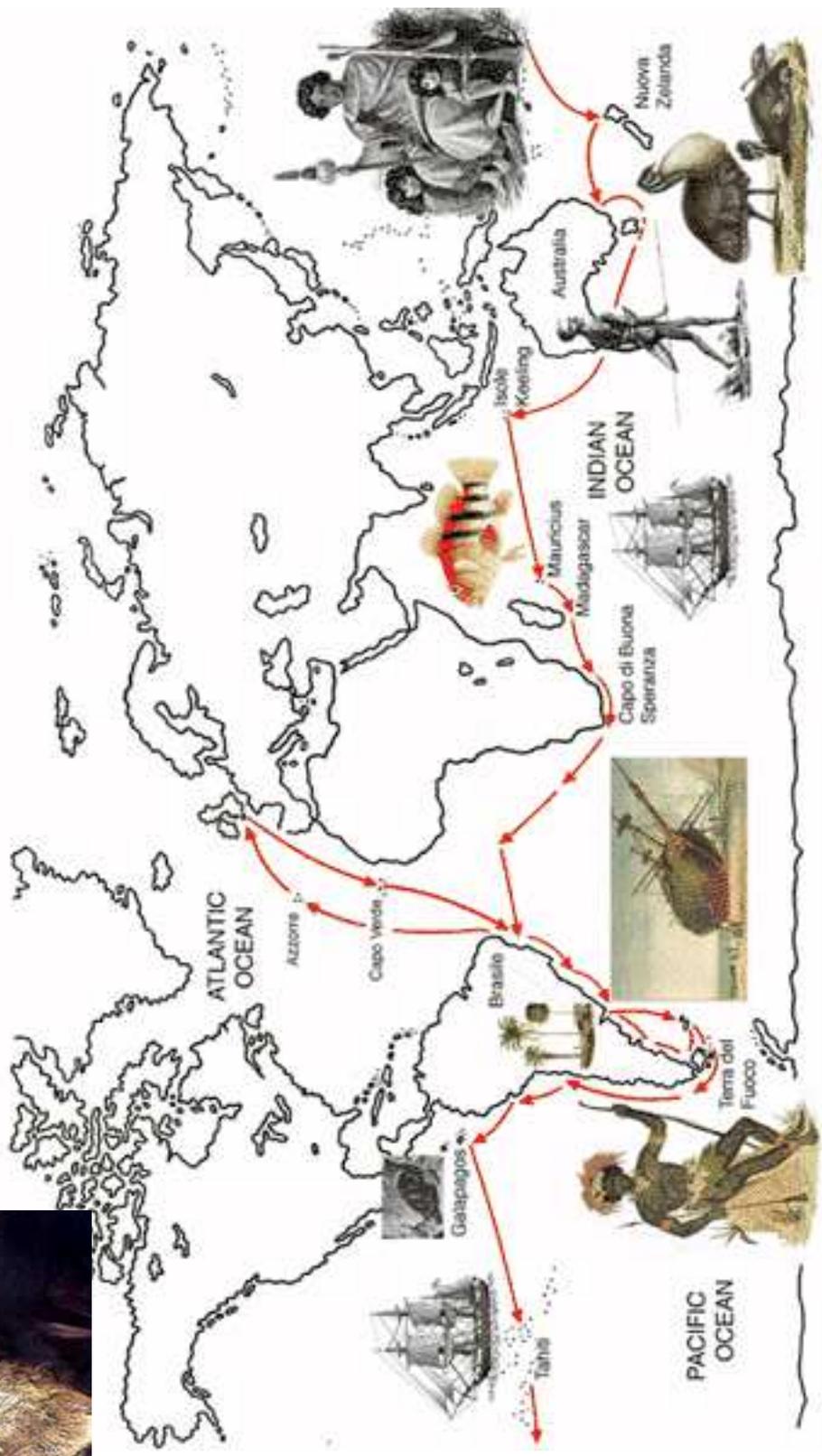


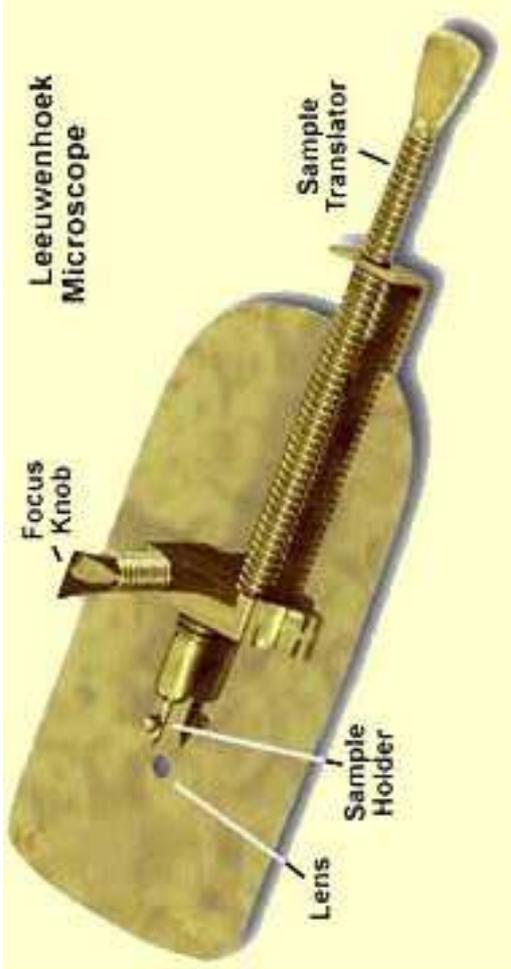
B

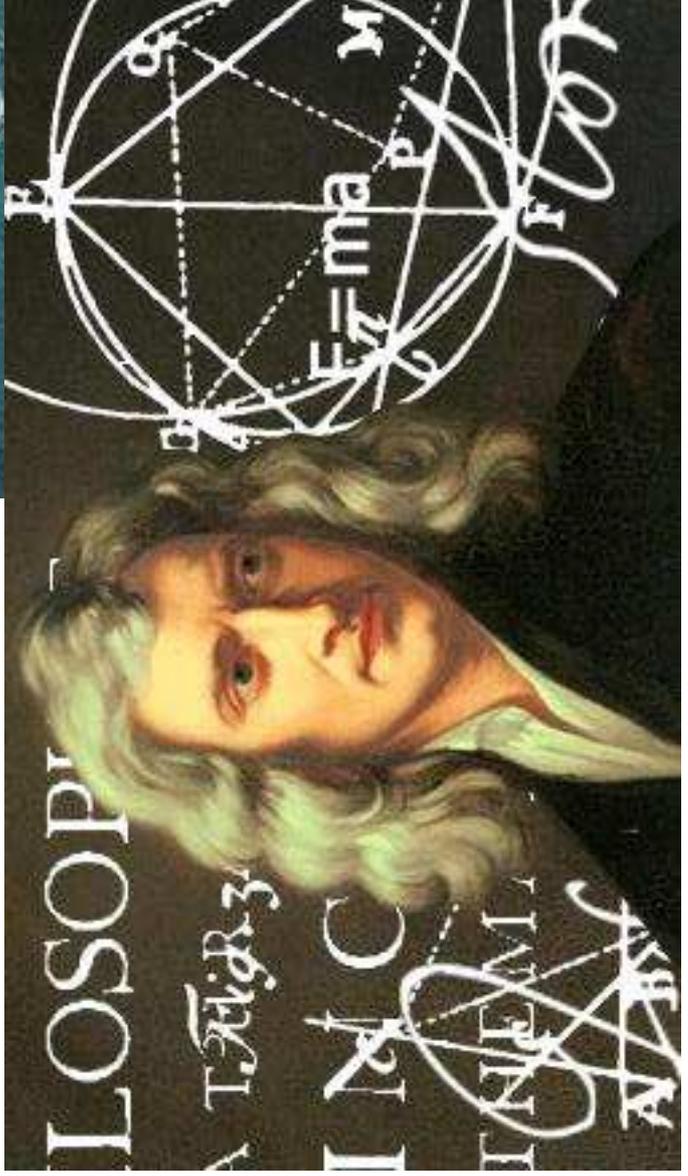


C









Ricerca guidata da ipotesi

Ricerca guidata da domande (esplorazione)

Sviluppo di metodi o strumenti

Misurazioni

Punti notevoli

- La domanda è il punto di partenza del progetto scientifico
- Domande o obiettivi scientifici comprendono la verifica di ipotesi, l'esplorazione, lo sviluppo di metodi o strumenti, la misurazione