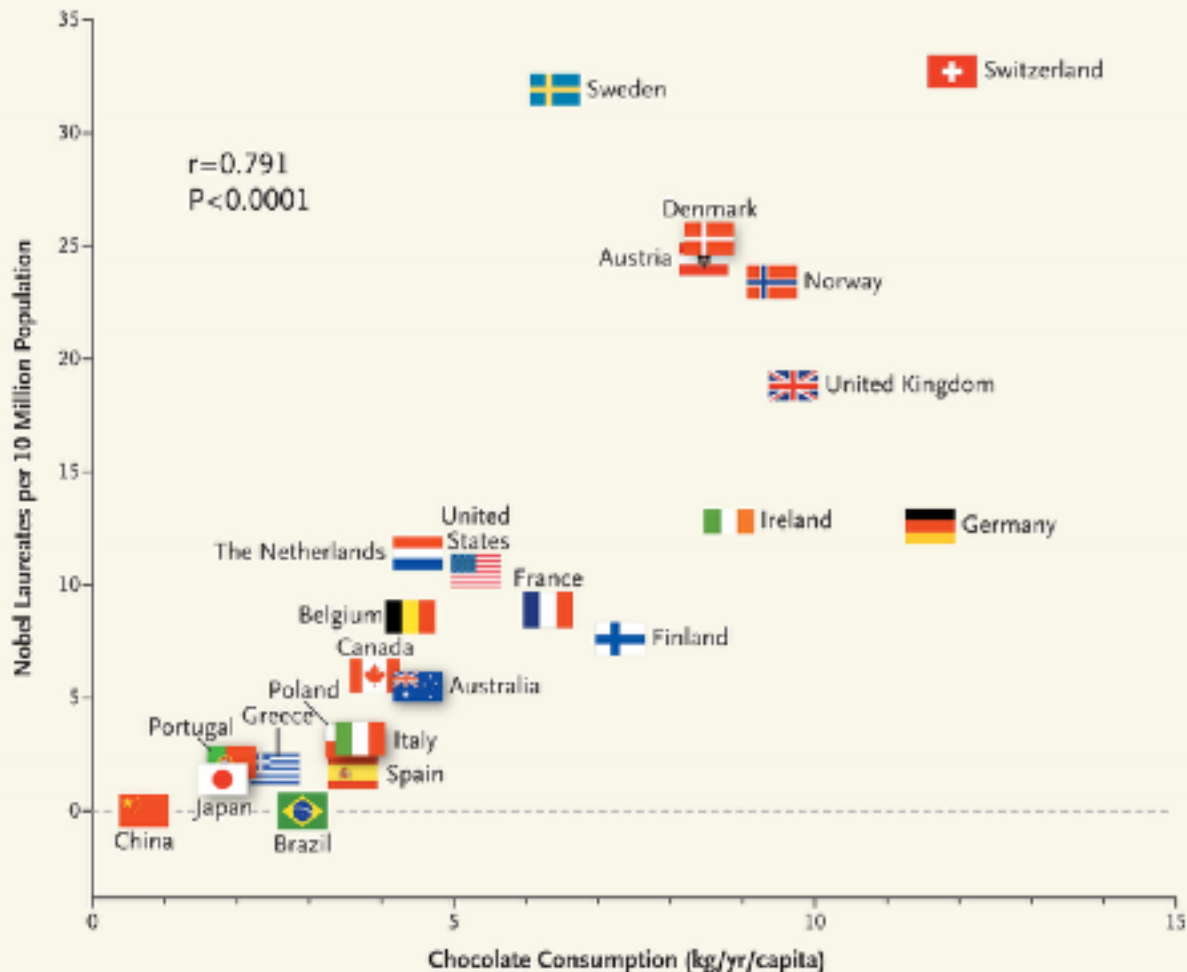


Correlation is *not* Causation

There is a high correlation ($r = 0.791$) between chocolate consumption in a country and the number of Nobel Prize winners in that country... Why do you think this is?



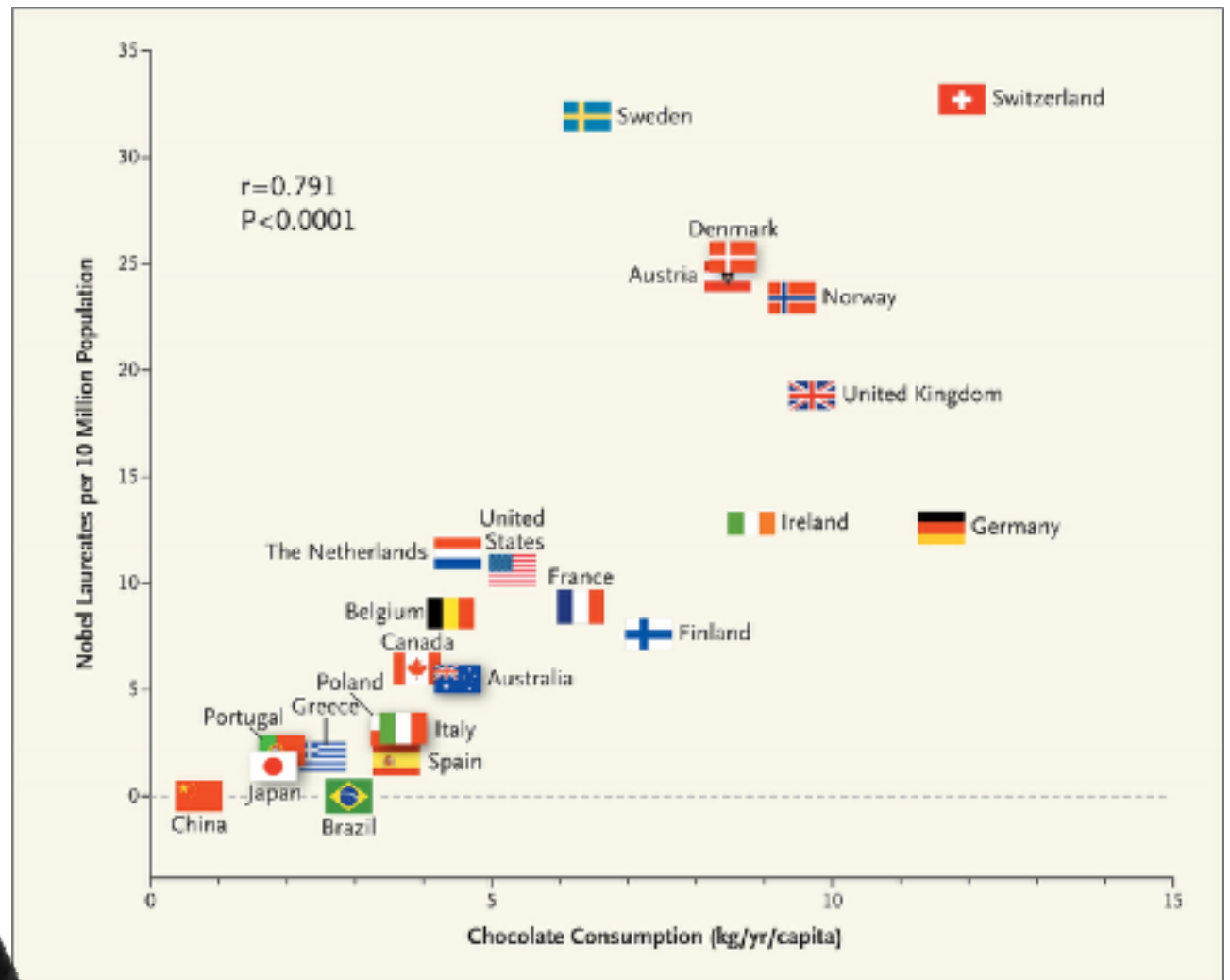






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Correlation is *not* Causation

- When interpreting correlation data one common pitfall is to assume that the score on one variable *causes* a particular score on the other. This is wrong!
- Very often, common sense would suggest causation – e.g., time spent studying improves exam score. Again, you cannot make any claim about causation from correlation.
- There may be a third variable that we don't know about – in this case, maybe a positive attitude to studying.
- Additionally, spurious correlations can be found all over the place...