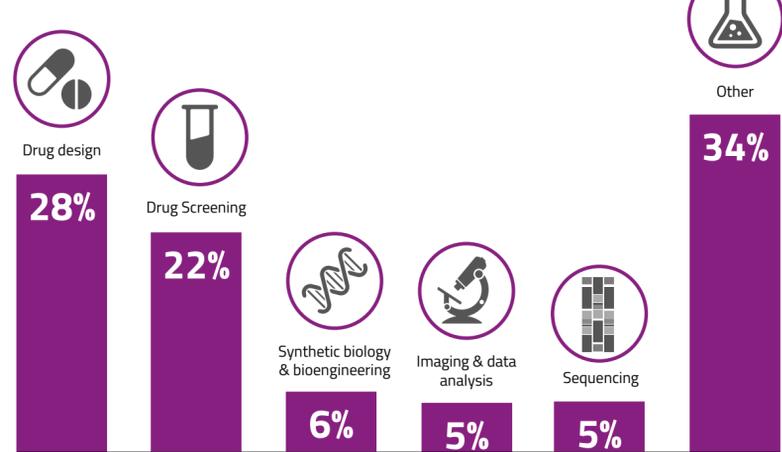


AI & INFORMATICS: Drug discovery and development

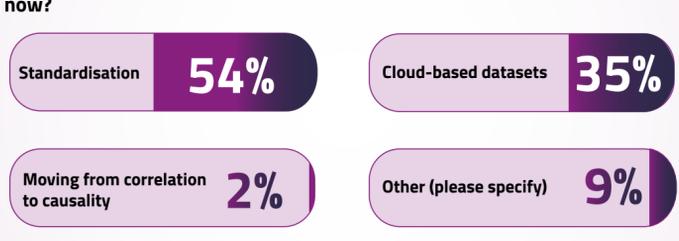
Industry Survey – Results

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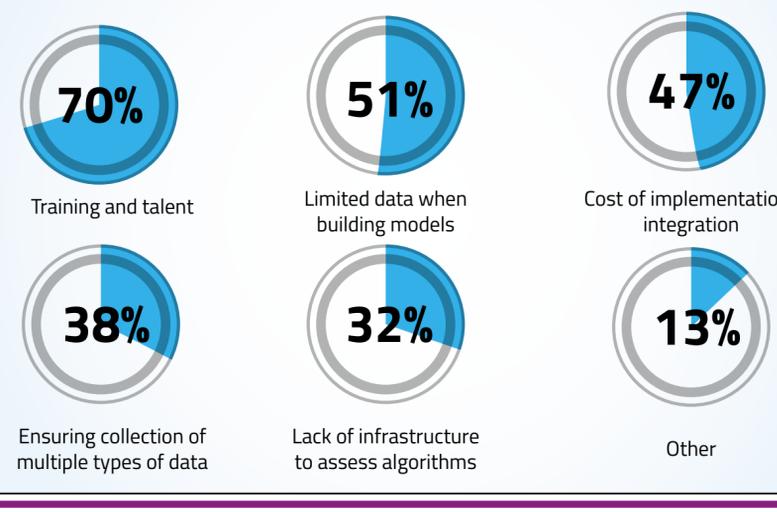
Q1 What best describes your research field?



Q2 What are the most pivotal developments happening in the AI/machine learning field right now?

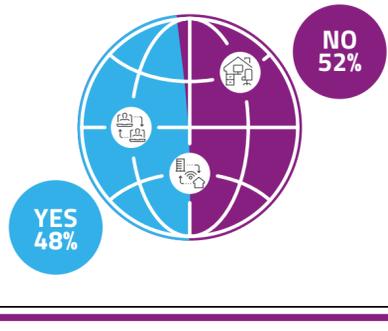
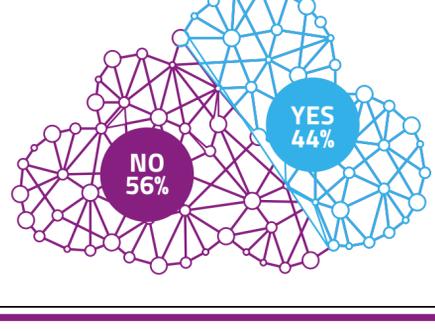


Q3 What are some of the key limitations holding back AI/machine learning/informatics in R&D? (Select all that apply)

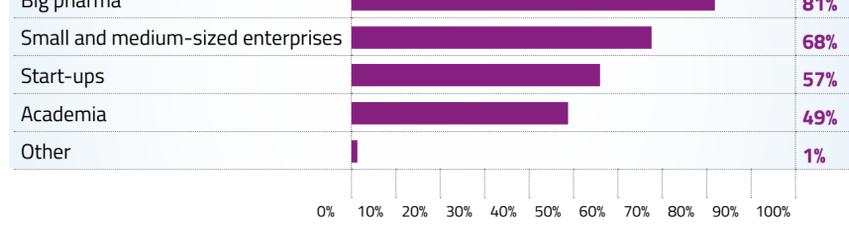


Q4 Has cloud computing aided your work?

Has automation/informatics enabled you to continue your research remotely?



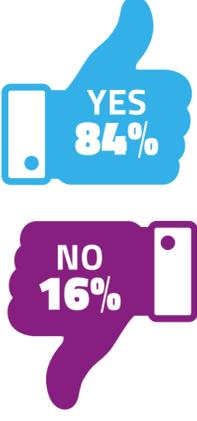
Q5 What type of organisation do you think will use AI/machine learning most in the future? (Select all that apply)



Q6 Do you think that new AI/machine learning technologies should be open-access?



Q7 Do you think the uptake of AI in your field will increase?

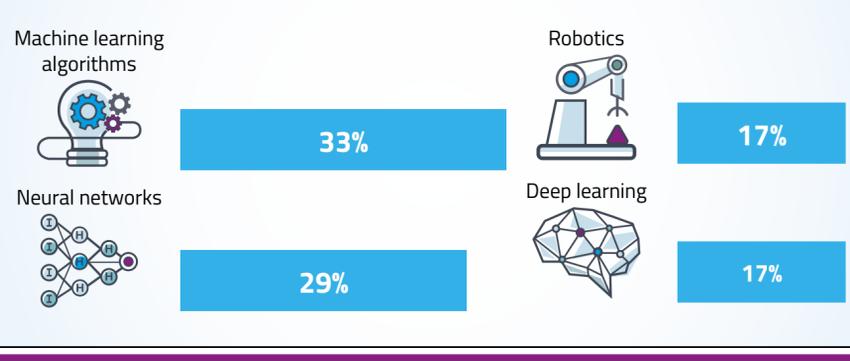


- IF YES, WHY?**
- AI is recognised as a powerful tool, especially for compound generation and evaluation. It is particularly useful in compound design, library design and data mining.
 - As costs decrease and examples of success increase, more standard packages will incorporate AI that is user friendly.
 - AI can provide additional information on hits from high-throughput screening with respect to existing public databases and predictions for hit-to-lead stages.
 - More companies will see the benefits of AI and it is becoming more affordable for small- and medium-sized companies.
 - More integration and analysis of complex, multiple datasets will increase the update of AI.
 - Increasing levels of training data and algorithms will enable more *in silico* workflows, meaning higher numbers of researchers will use them.
 - The need to accelerate drug discovery is a factor that urges the increase of the application of AI in drug discovery.
 - AI will be focused to answer specific questions that companies are working on (eg, repurposing, drug optimisation, antibody evolution) before being taken up more widely.

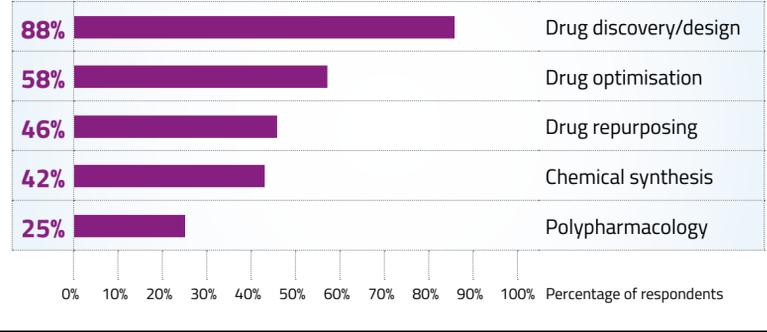
Q8 Which of these applications have you used AI/informatics for within imaging? (Select all that apply)



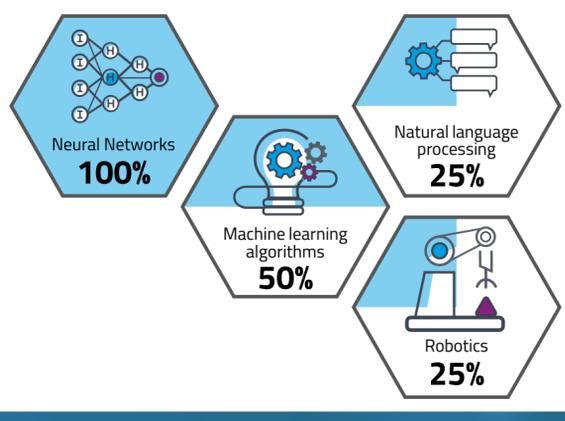
Q9 What kind of AI do you use for drug screening? (Select all that apply)



Q10 Which of these drug design applications have you used AI/informatics for? (Select all that apply)



Q11 What kind of AI do you use within synthetic biology? (Select all that apply)



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