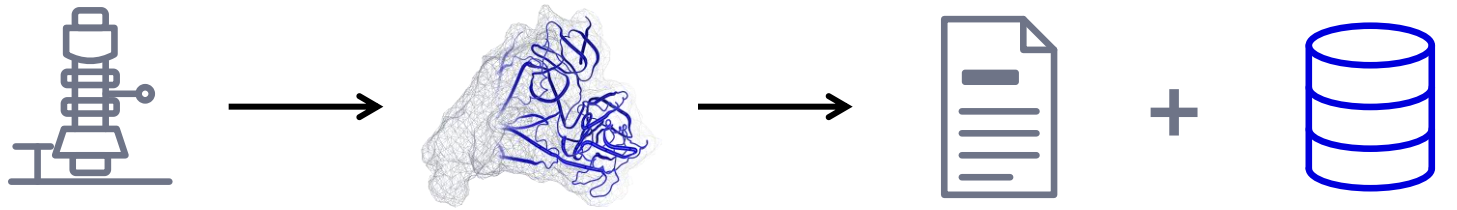
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Fifty Years of Sharing, Still Paying Off

Terézia Slanináková, Ph.D.,

120 seconds: Meet Brnoregion Microscopy, 15.10.2026

For 50 years, every protein has been deposited



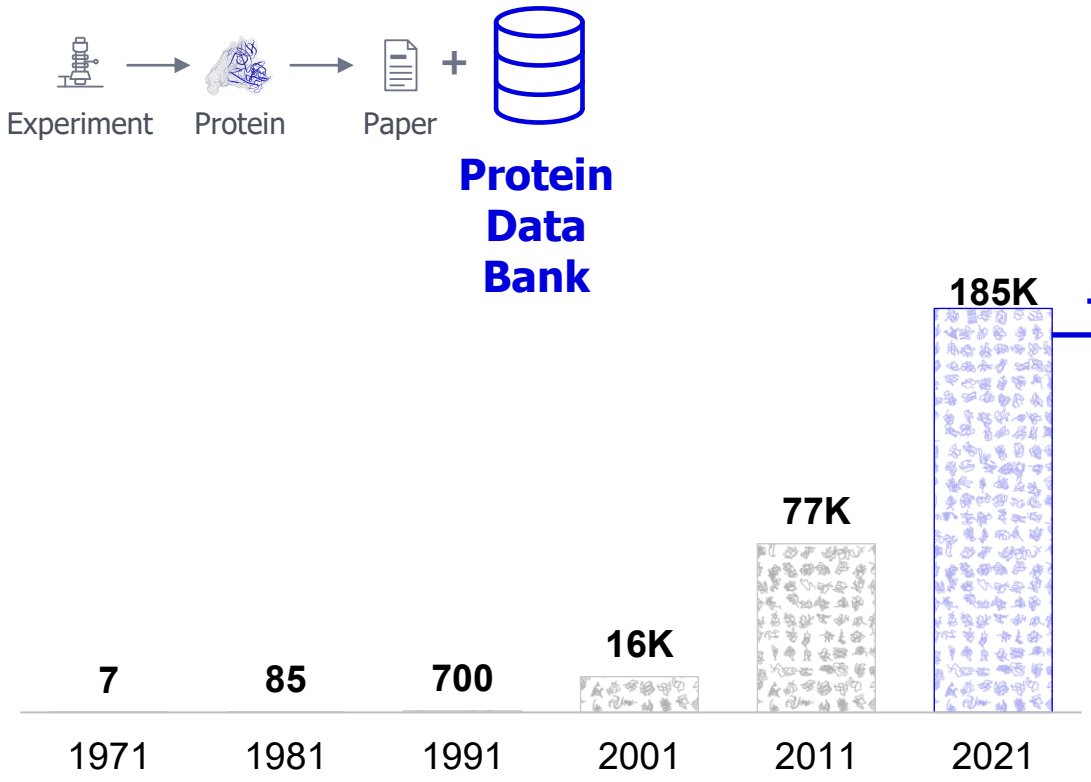
Experiment
cryo-EM or X-ray

Proteins

Paper

Protein Data Bank

What 50 years of deposits made possible



Training data



AlphaFold protein prediction

2024 Nobel Prize in Chemistry



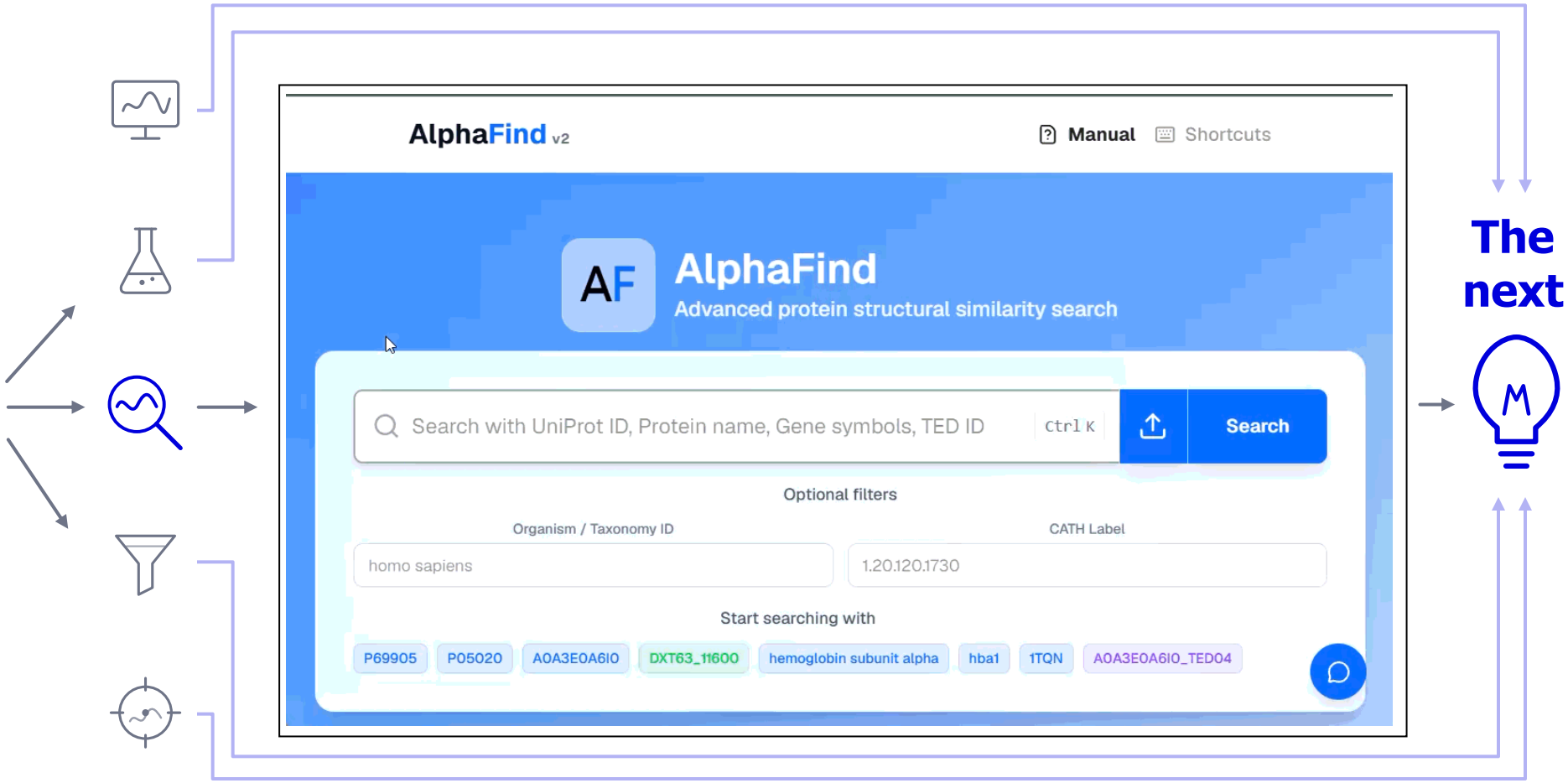
200 million predicted proteins

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Ideas creating needs leading to the next ideas

200 million
predicted structures





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50-year protein lesson: The next big idea is waiting for data you deposit today



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