

Bioinformatics is prediction- and simulation-based: Let's rephrase the conversation!

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Since the field of Bioinformatics has come into existence, general opinion has been that '*Bioinformatics is all about predictions, experimental-based, and talking everything in the imagination*', or '*the probabilistic outcomes must be approved in real world*' or '*the Bioinformatics results will have to be testified using the wet lab*'. This indeed is true, all the predictions made by Bioinformatics drafted experiments, must be testified using the wet lab. We cannot ride on a long way just on the basis of predictions and assumptions. But what if this is just one side of the coin? We still need to flip over to see the other side of Bioinformatics.

The prevailing opinion about the Bioinformatics is that it is more of a prediction-based and simulation-based field, which may be a half-truth. Indeed the predictions need to be verified in the real world but this is not the case with Bioinformatics only, it can also be related to the drug-discovery process where each and every drug is subjected to clinical trials before being manufactured as the complete drug, or even the other fields of science such as physics. This could be an application of Bioinformatics to be utilized in the other biological fields (including biophysics and biochemistry) where we model and simulate the macromolecules, predict potential functions and roles.

Science is about studying nature, discovering new opportunities, providing better insights, and developing new things leading to advancements. Bioinformatics bridges two worlds: biological science and computer science, which provides insights into the biological world and the latter incorporates the algorithm development and programming skills. With that in favor, bioinformaticists and bioinformaticians have the capability to advance in science and develop novel important techniques, tools, and software to study nature.

Research is endless, additionally, most of the times, the outcomes are different than what we assumed for

but it always reveals something important though and for that sometimes '*out-of-the-box thinking*' is required. This may also be the case here, Bioinformatics needs more exploration and inspiration which may take it to the next level.

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