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## A computational study on the nature of DNA G-quadruplex structure

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# **Propositions**

accompanying the dissertation

## **A computational study on the nature of DNA G-quadruplex structure**

by

**Kiana Gholamjani Moghaddam**

1. The unique characteristics of G-quadruplex scaffolds have made them attractive targets for a range of applications, from cancer therapeutics through to nanodevices (Chapter 1 of this thesis).
2. Molecular dynamics simulations are particularly valuable to the uncovering of the nature of interactions between ligands or proteins and G-quadruplex structures (Chapter 3, 4 and 6 of this thesis).
3. Understanding photoswitchable G-quadruplex structures via computational methods provides an opportunity to develop novel functional nanodevices (Chapter 5 of this thesis).
4. While virtual conferences may lack the benefits of physical events during the COVID-19 pandemic, they provide the opportunity for everyone to attend events from anywhere in the world. I believe that hybrid conferences are a good alternative option in the future, having the best of both worlds.
5. "Learn from yesterday, live for today, hope for tomorrow." (Albert Einstein)
6. "Nothing in life is to be feared. It is only to be understood." (Marie Curie)
7. The number of printed copies of PhD theses should be decreased considering the environmental consequences. We live in a digital world.