Molecular modeling

The next step is a systematic SIMPLAIX workshop: "Machine learning for Multiscale Molecular Modeling" (Workshop). With an aim to integrate the HITS conference venue (the Studio Villa Bosch in Heidelberg, on 2-4 May 2023). The Workshop will bring together scientists working in this field to share their research and discuss current challenges.

The HITS blog can be found on the "Scilogs" portal at https://scilogs.spektrum.de/via-data/.

Beyond the limits

The Klaus Tschiraousseau Professorship is an international open call for researchers in all fields of natural sciences. Outstanding scientists from all over the world can apply for the position. The aim of the Klaus Tschira Professorship is to foster interdisciplinary research and to strengthen the scientific community in Heidelberg and beyond.

Molecular modeling methods enable scientists to simulate the behavior of molecules, even on a molecular level. This is particularly relevant for the drug design process, where it is crucial to know how drugs interact with their targets before they are synthesized and tested. While molecular modeling has been used for decades, it has only recently been possible to simulate large systems of molecules, such as whole cell membranes or the entire human genome.

While molecular modeling has been used in clinical settings for decades, there are still many unknowns. To address these challenges, the Klaus Tschira Guest Professorship Program aims to enhance international cooperation and to foster innovative research at the interface of science and society.

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The Klaus Tschira Guest Professorship Program is a four-year appointment, and the successful candidate will receive a research grant of up to €500,000 per year, depending on the scope of the research project. The successful candidate will also have access to state-of-the-art research facilities and a dedicated support team to help with the transition to Heidelberg.

Understanding the dynamics of complex systems is essential for advancing our knowledge of the world and for solving pressing global challenges. The Klaus Tschira Guest Professorship Program aims to bring together scientists from all over the world to work on cutting-edge research projects that address these challenges.

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