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Application of virtual laboratory tools in the teaching of Biomedical Sciences

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Abstract:

Accumulated information and knowledge on modern biomedical sciences are challenging for students and teachers, respectively. "Omic" technologies dramatically increase the volume of knowledge on biomedical sciences, including pharmacogenomics. Therefore, it is hard for students to learn a broad range of biomedical knowledge within limited lecture time. Particularly, the effective learning from animal experiments is difficult because of limited time and experimental facility available for covering those various experiments, especially in the class of pharmacology and toxicology. Therefore, students may get a benefit to overcome the challenge in learning broad biomedical knowledge independently throughout their virtual training with interactive virtual tools.