Research project and supervisory team

| Supervisory | Dr. Bencan Tang |
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| Team | Dr. Jianfeng Ren(TBD) |
| ream | Professor Jonathan Hirst (TBD) |
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| Short | The development of anticancer drugs involves drug-like molecule design |
| introduction & | and synthesis, lead identification and optimization, as well as later |
| description of | development in clinical trials, and then finally marketing. Computer |
| research project | aided drug development can greatly reduce the research and |
| | development (R & D) cycle and R &D costs. Within this, artificial |
| | intelligence is currently actively adopted for drug screening, design and |
| | synthesis. As a powerful data analysis and data mining tool, machine |
| | learning, as an important branch of artificial intelligence, is expected to |
| | play an important role in virtual screening. |
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| | This project aims to set up an artificial intelligence based anti-cancer |
| | drug discovery platform with the ability to virtually screen potential anti- |
| | cancer candidates. The screening of inhibitors for high-risk tumor related |
| | targets such as BRCA, EGFR, LSD1, PARP, DNMT1 will be carried out as |
| | case studies for this platform. Meanwhile the obtained potential |
| | inhibitors for these targets will be synthesized for biological tests and |
| | further development. |
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| | We are seeking TWO PhD students in this project. |
| | Candidate 1 is expected to carry out synthesis who should have strong |
| | experience in medicinal chemistry and organic synthesis. |
| | Candidate 2 is expected to have strong experience in applying machine |
| | |
| | learning in drug screening, who ideally should have experience in |
| | computer programing. |
| | Vou are violeemed to contact us (vio area) |
| | You are welcomed to contact us (via email |
| | bencan.tang@nottingham.edu.cn) to discuss these opportunities further. |
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