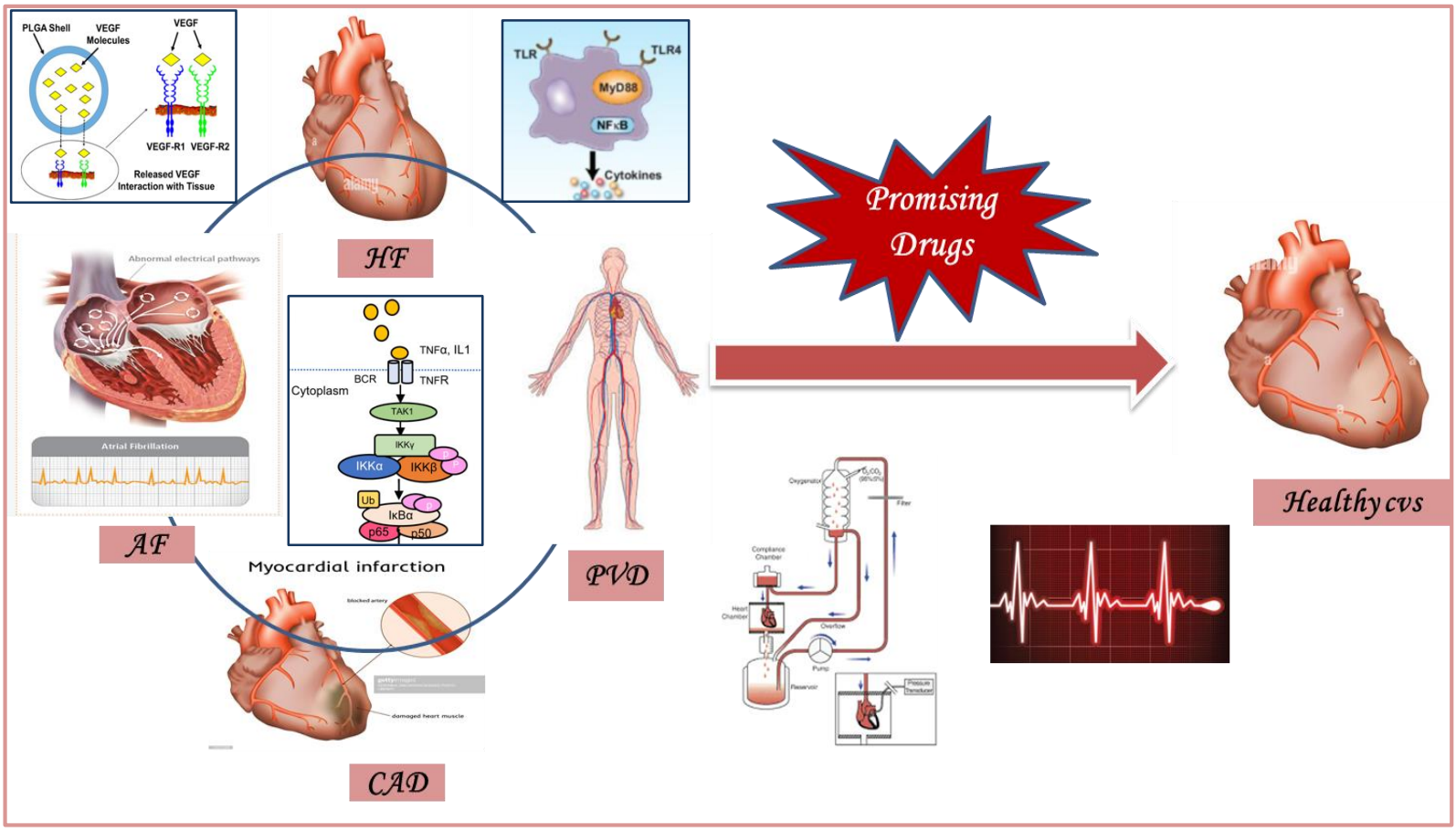
Cardiovascular research field



In Egypt, cardiovascular disease (CVD) has been the leading cause of premature death since the 1990s. In 2017, CVD accounted for 46.2% of the overall mortality in Egypt. **Pharmacology and Toxicology department focuses** on finding new therapeutic tools that could lower the incidence of CVDs including coronary artery disease, heart failure, atrial fibrillation, and peripheral vascular disease. Potential effects of investigational compounds are being studied experimentally in different animals' models that are mimicking CVD in human. TLR4/NF-kB/caspase signaling, VEGF/VEGFR/ ROCK signaling, and ROS/NRf2/HO-1signaling are among the pathways that have been documented to contribute to cardiovascular damage. Therefore, our projects aim at investigating the potential effect of many compounds that are capable of targeting these pathways.

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