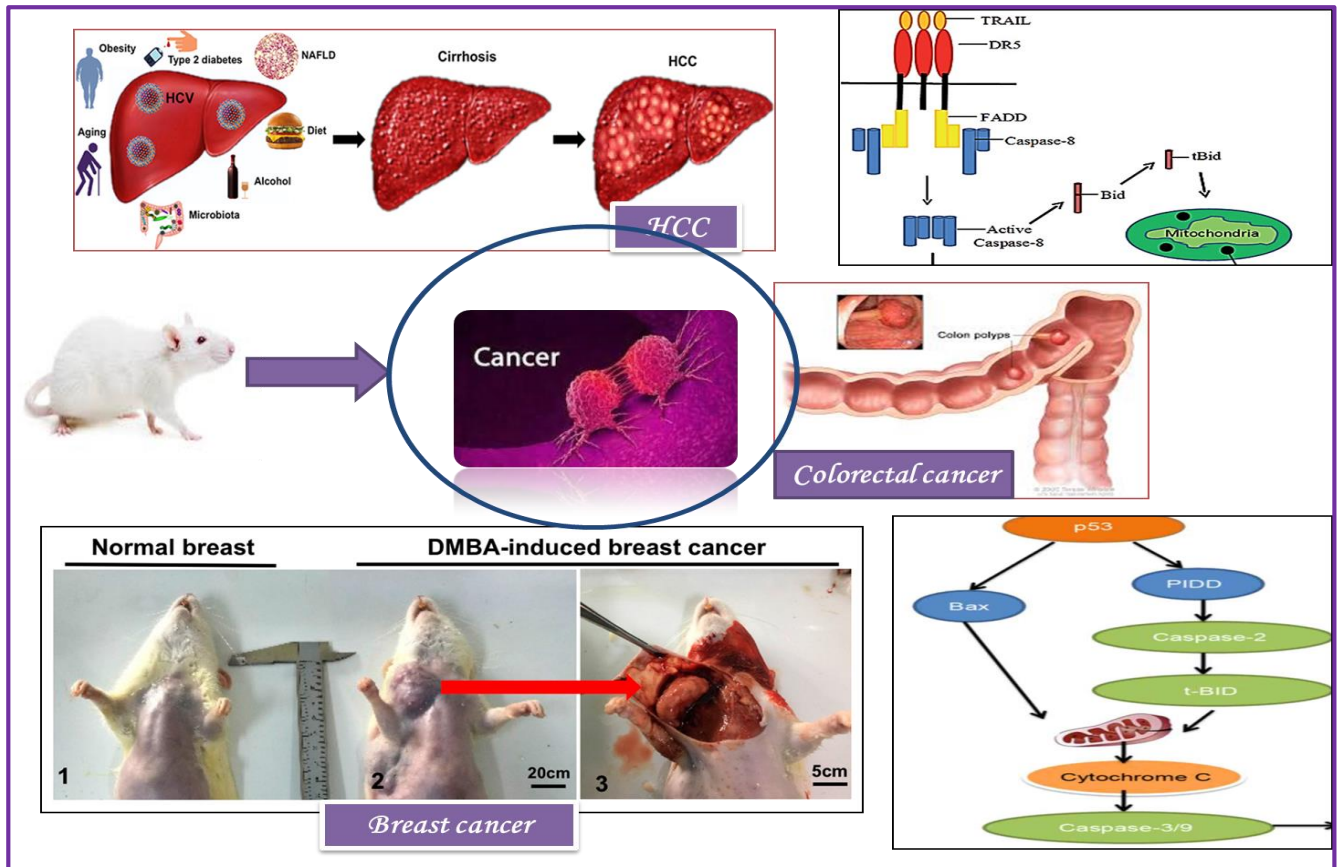


Cancer/Toxicological studies



Cancer is a leading cause of death worldwide, accounting for nearly 10 million deaths in 2020, or nearly one in six deaths. In 2018, there were about 134,632 new cancer cases and 89,042 cancer-related deaths in Egypt. Liver and breast cancers are the most common tumors in terms of incidence and mortality. **Pharmacology and Toxicology department focuses** on finding new therapeutic tools that could lower the incidence and so mortality rate of different cancers mainly breast, liver and colorectal ones. Potential effects of investigational compounds are being studied experimentally in different animals' models. Bax/Cytochrome C/caspase-3 apoptotic signaling, Wnt/Hedgehog/Notch1 signaling, and TLR4-MyD88-NF- κ B signaling are among the pathways that have been documented to contribute to cancer development. Therefore, our projects aim at investigating the potential effect of many compounds that are capable of targeting these pathways.

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