

ABOUT AU-KBC RESEARCH CENTRE

The AU-KBC (Anna University – K B Chandrasekhar) Research Centre (www.au-kbc.org) in Anna University Chennai was set up in 1999 as a joint effort between the University and one of its alumni Dr. K. B. Chandrasekhar, a global entrepreneur and technology investor based in the Silicon Valley (USA). A pioneering initiative in Public-Private-Partnership (PPP) in Indian R&D, the AU-KBC Centre works with a unique model of making an R&D Laboratory financially self-supporting by making it a part of an “Innovation Ecosystem” that connects Research to Market. The Centre works in the broad areas of Life Sciences (LS) and Information Sciences (IS) with a sharp focus on creation and commercialization of Intellectual Property (IP).

The following are the laboratories within the Life Sciences Division.

1. **Vascular biology laboratory:** The research interests of the Vascular Biology lab revolve around nitric oxide signaling in endothelial bed and vascular remodeling. The goal of the lab is to understand the role of nitric oxide signaling pathways in cellular migration, permeability and angiogenesis. The laboratory has contributed significantly to the understanding of nitric oxide implications in angiogenesis, and regularly carries out consultancy for leading Pharma companies.
2. **Ion channel Biology Laboratory:** Investigates the role of ion channels in various physiological mechanisms and Pathological conditions.
3. **Liver Toxicology laboratory:** Works on elucidating the mechanisms by which hyperglycemia and alcoholism promote liver injury.
4. **Molecular Immunology Laboratory:** Studies on the altered immune responses at the interface of infectious diseases and metabolic disorders. Inflammation & immunity under conditions of diabetes & infectious diseases co-morbidities.
5. **Bioinformatics Laboratory:** Discovery and development-focus on HDAC Inhibitors and Taxanes, augmentation of biotech products, tools and database Development-Developed and released functional and comparative genomics and databases for whole genome analysis of microbes.