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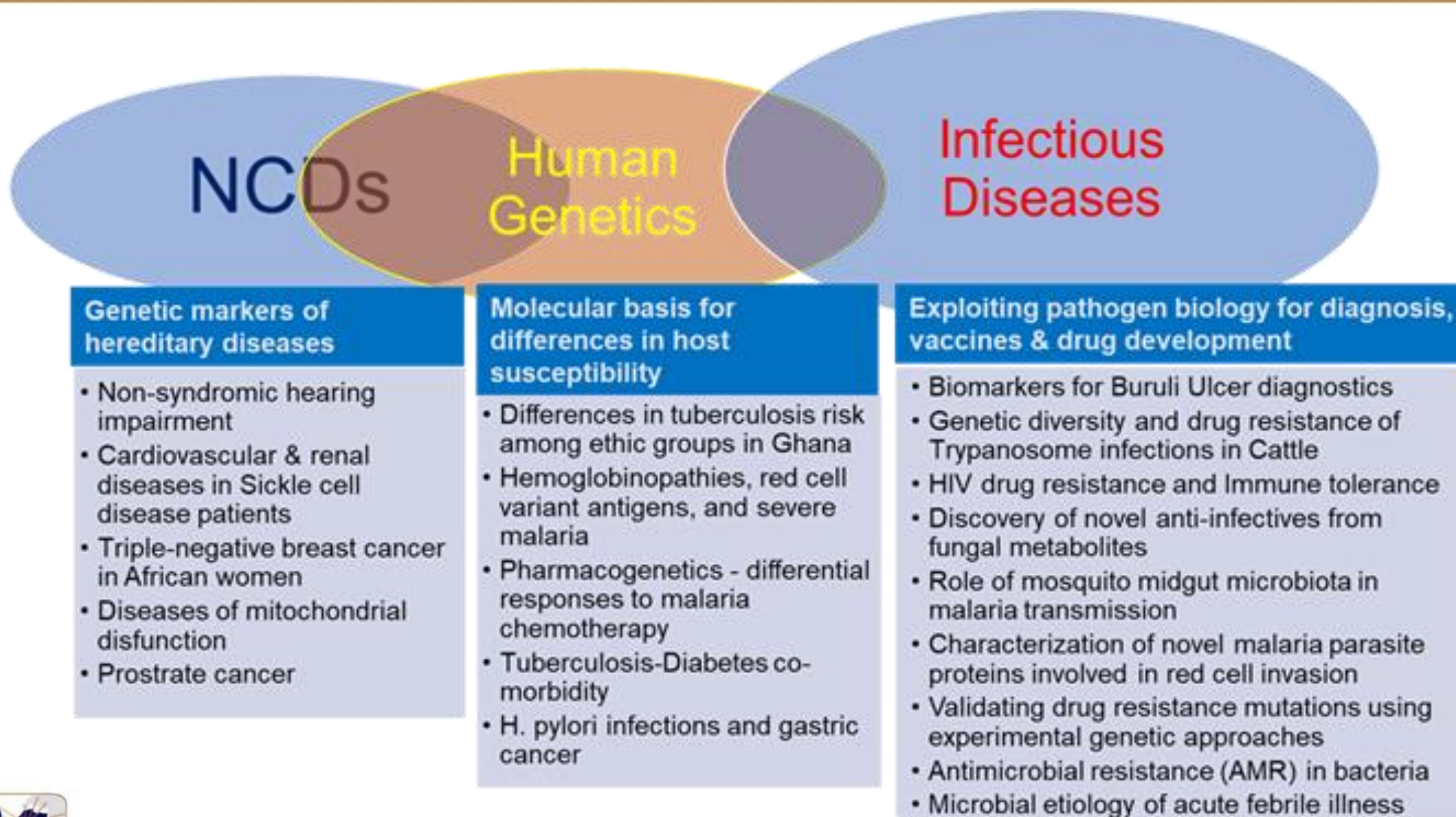
# WACCBIP Theory of Change

**Strategic goal: Become a major hub for biomedical research training and a leading producer of home-grown African science leaders**

- **Building capacity by providing full training pipeline: from graduate internships, through Masters and PhD programmes to Postdoctoral**
- **Creating an environment for high quality training and development of science leaders**
- **Attracting talented African scientists in the diaspora to return or collaborate**
- **Providing trainees with the skill-set for independent research in the peculiar research environment in Africa**
- **Building a network of young scientists who would be bonded together through their training and will continue to collaborate as independent scientists and health professionals**
- **Generate innovations in molecular diagnosis and drug/vaccine development by collaborating with sectoral partners from private sector**
- **Support public health agencies by providing real time pathogen data for effective disease surveillance**



# WACCBIP Research Areas

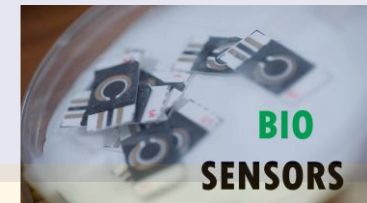


# WACCBIP Innovations

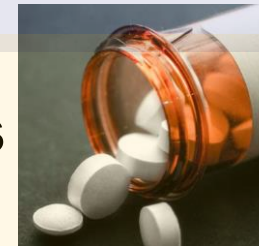
❖ Discovery of new vaccine candidates for blood stage malaria



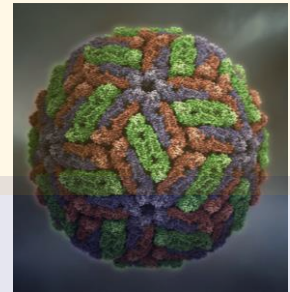
❖ Development of novel biosensor-based diagnostic tools to detect various disease biomarkers



❖ Identification of many drug leads and drug targets



❖ Established molecular techniques to characterize of the first dengue case in Ghana



❖ Established molecular techniques to identify the extensively drug-resistant tuberculosis cases in Ghana





# Areas of Collaboration at WACCBIP

## Product development:

- ❖ Vaccines, novel biosensor-based diagnostic tools, drug candidates

## Establish commercial molecular diagnostics service:

- ❖ molecular techniques for surveillance of viral infections, antimicrobial drug resistance

## Graduate research training: masters, PhD and Postdoctoral training

## Joint research projects: Infectious diseases, NCDs, drug and vaccine discovery, etc

