Preliminary Programme of 2024 ICGEB Workshop (June 23-26)

Advances in the development and evaluation of diagnostics for precision medicine
(https://www.icgeb.org/activities/meeting-and-courses/#sponsored2024)

Keynotes:
(1) From precision oncology to personalized cancer care
(2) Novel technologies for cancer diagnostics
(3) Diagnosing infections diseases and combating antibiotic resistance
(4) International regulatory landscape for diagnostics

Section I: Emerging technologies for diagnostics
(1) Crispr-based assays for the fast identification of pathogens
(2) Nanoenzyme-based novel diagnostics
(3) Ribozymes and their applications in diagnosis
(4) AI for molecular and cellular diagnostics
(5) Lab-on-a-Chip and microfluidics
(6) Development of biosensor-based diagnostics

Section II: Progress in developing novel diagnostic methods
(1) Developing and deploying biomarkers into novel diagnostics
(2) Liquid biopsy: circulating biomarkers: cfDNA, RNA, EVs
(3) Urine biomarkers for early cancer surveillance and disease management
(4) Discovery of DNA methylation biomarker for cancer and complex diseases
(5) Electrochemiluminescence technology in the detection of pathogens
(6) Next-generation tools and technology at the point-of-care

Section III: Application of novel diagnostics
(1) Clinical applications of liquid chromatography-tandem mass spectrometry
(2) Precision diagnosis of *Helicobacter pylori* infection and associated diseases
(3) Fluorescent microsphere array for multiplex detection of antigens
(4) Diagnosing allergies
(5) Point-of-Care Tests for infectious diseases
(6) Microneedle biosensors for Point-of-Care diagnostics

Section IV: Regulation of diagnostics and international cooperation
(1) ICGEB and international cooperation of biopharma products and IVD
(2) The landscape of IVD production in China
(3) Registration regulations of *in vitro* diagnostics in China
(4) Registration and regulations of IVD production in Brazil
(5) IVD production and registration in Zimbabwe and Southern Africa
(6) A Chinese company’s experience of international cooperation on IVD