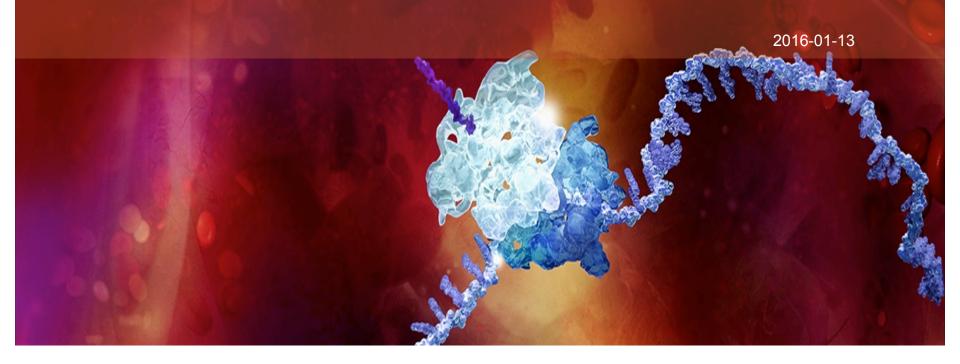AstraZeneca
IMED Biotech Unit

Introduction to BigChem
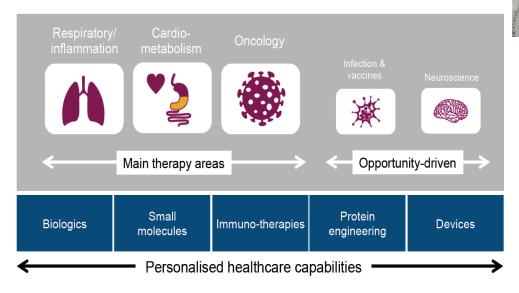
Hongming Chen

Chemistry Innovation Centre, Discovery Sciences, AstraZeneca Mölndal
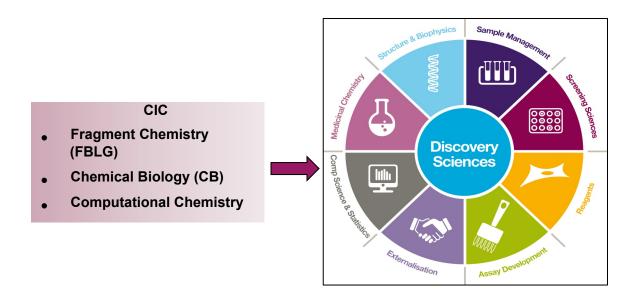
2016-01-13

Introduction to AstraZeneca

• We are a global, science-driven biopharmaceutical company which span the entire life-cycle of a medicine from R&D to manufacturing, supply, and the global commercialisation of primary and specialty care medicines.

• In total 57500 employees work globally , ~9000 employees in R&D, total sales is around 26B USD in 2014.

• Our research focus in following areas:

Respiratory/inflammation Cardio-metabolism Oncology Infection & vaccines Neuroscience

← Main therapy areas →   ← Opportunity-driven →

| Biologics | Small molecules | Immuno-therapies | Protein engineering | Devices |

← Personalised healthcare capabilities →

MöIndal
Cambridge
Gaithersburg

Three major R&D sites together with two satellite sites in Boston and Shanghai

Discovery Sciences | CIC

Chemistry Innovation Centre (CIC) within Discovery Sciences

CIC
- **Fragment Chemistry (FBLG)**
- **Chemical Biology (CB)**
- **Computational Chemistry**

• **Comp. Chem. group provide cheminformatics support for CIC missions such as fragment based lead generation (FBLG) and Chemical biology (CB).**

• **Comp. Chem. group also provide computational support on HTS screening, compound collection informatics, hit analysis, in silico screening and target deconvolution for phenotypic screening, and develop & deploy predictive chemistry tools for drug discovery teams.**