

Bing Zhang

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PROFESSIONAL EXPERIENCE

- Director of Core genomic facility, **Beijing Institute of Genomics, Chinese Academy of Sciences**, China, 2014 - Present
- Associate Professor, **Beijing Institute of Genomics, Chinese Academy of Sciences**, China, 2009 - Present
- Assistant Research Fellow, **Beijing Institute of Genomics**, China, 2006-2009

EDUCATION

- PhD in Bioinformatics, **Zhejiang University**, China, 2006
- BS in Microbiology, **Anhui University**, China, 2001

RESEARCH INTERESTS

- Bioinformatics
- Genomics

HONORS& AWARDS

- CAS key Technology Talent Program, 2017

ABSTRACT

The next generation sequencing technology (NGS) is applying widely in life sciences, clinical diagnosis, medicine research, breeding research and so on. The rapid progress of NGS has increased sequencing throughput and decreased cost remarkably, which push genome research into personal genome sequencing era. NGS can be used for genome sequencing, RNA sequencing, exome capture sequencing, methylome sequencing and so on. I'll give a brief introduction of 2nd and 3rd NGS technology, such as sequencing principle, application field, advantage and disadvantage. Illumina sequencing technology and a series of instruments, as most popular platform, will be introduced in detail. In addition, how to plan a sequencing project will be discussed.