计算生物学博士后和访问学者职位

俄勒冈健康与科学大学(OHSU)是美国西北部一所著名的医学院。在 US News 全美医学院排名 31。多个部门在美国国家卫生研究院年度拨款中排名前 5。OHSU 的 Knight 癌症中心由 Dr. Brian Druker 领导，他率先提出 基因靶向治疗的概念，发明了 革命性癌症药物 Gleevec，在慢性骨髓性白血病治疗中取得突破性的功效。

本实验室从事计算生物学和生物信息学方向。主要是应用机器学习的方法对癌症基因组大数据进行分析。实验室 PI 已在《自然》杂志及其系列发表高质量的文章。目前招收博士后和访问学者加入实验室。

要求：
- 生物信息学，生物，计算机，数学，电子工程，自动化，模式识别博士毕业。
- 较强的编程和机器学习的背景，使用 R， Python， Matlab 或者 C++。
- 至少有一篇英文文章。

也欢迎有兴趣的在读硕士或者博士生联系，实验室提供经费支持交流访问，共同署名发表科研文章。

Postdoctoral positions in Computational Biology

The Computational Biology Program and Molecular Microbiology & Immunology at Oregon Health & Science University (OHSU) invite applications for postdoctoral positions in the areas of computational biology and bioinformatics. We seek motivated applicants to perform data-driven translational research in a highly interdisciplinary and collaborative environment to advance the progress in both methodology and biology. Through novel algorithm development and big biological data analysis, we have published papers in high impact journals like *Nature*, *Nature Genetics*, *Nature Communications*, *Cell Stem Cell* and *Molecular Cell*.

Successful applicants will be working on either (i) Bioinformatics tool development for Next Generation Sequencing data analysis like RNA-seq and ChIP-seq with applications in immunology, cancer biology and infection diseases; or (ii) Genotype to Phenotype Machine Learning (GPML) by integrating big multi-omics data and clinical data using graphical model, transfer learning and deep learning.

Requirements:
- The applicant should hold a doctoral degree in a related field such as Bioinformatics, Biology, Computer Science, Bioinformatics, Biostatistics, Mathematics or Electrical Engineering.
- Either machine learning algorithm development or experience in Next Generate Sequencing data analysis like RNA-seq and ChIP-seq;
- Programming proficiency in some languages (e.g., R, Python, Matlab, Perl, C, C++ or Java);
- At least one publication in the last three years.

OHSU is ranked as one of the nation's top medical school. With long-term resource commitments, such as the $1 billion Knight cancer "challenge", substantial resource is provided to support state-of-the-art computational research, including a world-class exascale supercomputing cluster, close interactions and resource commitments by leading technology companies such as Intel, tight integration with clinical and basic research programs across campus. OHSU is located in Portland, Oregon – a city whose breathtaking scenery, exciting location, mild weather, and friendly people have all contributed to its appearance on numerous "Best Of" lists, including Online Insider's "Top 10 Least Expensive Cities" and "Top 10 Best Places to Live".

Interested applicants should send a CV and the contact information of three references to Zheng Xia (xiaz@ohsu.edu). Successful applicants will receive competitive pay and benefits commensurate with the applicant's level of experience.

Visiting Scholars/Students interested in Bioinformatics are also encouraged to contact me for potential opportunities in our team.