Open Positions in Center for Next Generation Cytometry (CNGC)

1. CNGC Intro: The Center for Next Generation Cytometry (CNGC, cngc.kr or cngc.hanyang.ac.kr) was established in Nov. 2017, based on the collaborative research activities between Hanyang University and Yonsei University Hospital. By combining cutting-edge Information Technology (IT) with Nano- and Bio-Technologies (NT and BT), it aims to innovate current Medical Technology (MT) to benefit patients, medical doctors, and healthcare industries. Particularly, in the project currently undergoing, it is developing multi-level disease diagnosis models based on novel cytometry platforms and machine/deep learning approaches, which can be applied for the early diagnosis of the diseases, such as sepsis, stroke, and blood cancer, and expected to contribute in expanding clinical applications of current blood testing methods.

2. Open Positions: Postdoctoral Scholar / Research Associates (3 positions available)

- Single cell analysis using high dimensional imaging or mass cytometry platforms.

The center for next generation cytometry (CNGC) has an opening for three postdoctoral scholars or research associates with various backgrounds (e.g., Analytical Science, Cell Biology, Immunology, Statistics/Data Analysis and other relevant science/engineering fields), who will work on single cell analyses using high dimensional flow or mass cytometry platforms. The CNGC aims to combine high dimensional flow and mass cytometry platforms with deep/machine learning techniques to develop multi-level disease diagnosis models.

This position will be responsible for some of the following roles; **1) developing, operating and maintaining high dimensional imaging and mass cytometry**, **2) developing and optimizing protocols for these platforms to study various diseases** (e.g., sepsis, stroke and cardiovascular diseases) **3) analyzing and interpreting large sets of high dimensional mass and flow cytometry data, 4) Developing and maintaining optical, mechanical and electronic equipment**.

Ph.D with experiences in one of the following areas are preferred; 1) instrumentation and/or applications in developing mass or flow cytometry, 2) isolating, processing, and analyzing single cells from blood or other biospecimens using high dimensional cytometry; 3) dimensionality reduction, preprocessing, clustering and visualization of high dimensional cytometry data using machine/deep learning techniques. Strong communication skills and excellent oral and written English are also preferred for this position.

If you are interested in this position,

please contact to Prof. Tae Hyun Yoon by e-mail (taeyoon@hanyang.ac.kr)