GENETICS

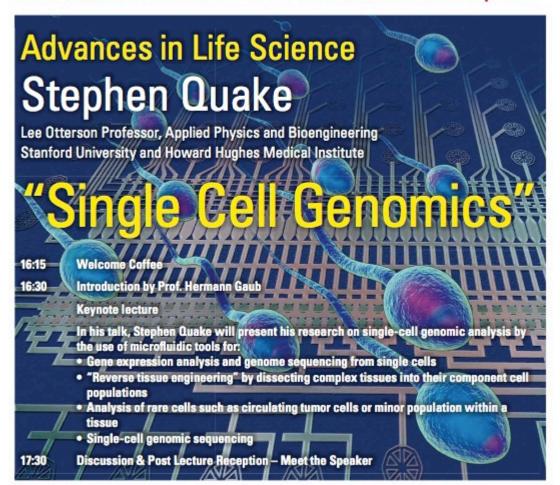
SINGLE CELL GENOMICS UPDATE

16.11.2013

Friday, November 15, 2013 - 16:15 h

Venue: Raum H030, Fakultät für Physik, Schellingstraße 4, 80799 München

Leica Scientific Forum Munich & CeNS Colloquium



Scientific Advisory Board: Berlin: Prof. Michael Brecht (HUB), Prof. Stephan Sigrist (FUB) / Heidelberg: Prof. Winfried Denk (MPI), Prof. Roland Eils (DKFZ), Prof. Stefan Hell (DKFZ and MPI Göttingen), Dr. Rainer Pepperkok (EMBL) / Munich: Prof. Ulrike Gaul (LMU), Prof. Hermann Gaub (LMU), Prof. Arthur Konnerth (TUM) / Dr. Thomas Zapf (Leica Microsystems)

I have been attending yesterday an interesting talk of Stephen

Quake.

Yes, this was a Leica sponsored event, but not about photography, it was about single cell genomics. I was always interested in that field and quite impressed by the Quake approach. These biology-baptized mathemati-

cians and physicists can easily compete with whole research centers and a 100fold head count.

The commercial spin-off is <u>fluidigm.com</u> while his main research is not only sequencing of the fastest moving bacterium but also an estimate of mutations in his own haploid (sperm) genomes, single cell expression along with single cell methylation patterns.

One of the really exciting questions is the mismatch of single cell RNA and protein content where I need to go for some papers that I wasn't aware off. Another excellent idea is the clustering of single cell expression profiles. This is already leading to new classes of cells and a probably much more valid approach than using random? surface markers as immu-nologists usually do, yea, yea.

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