

# 23回HiHA Seminar

Hiroshima Research Center for Healthy Aging (HiHA)

主催: 広島大学健康 寿研究拠点

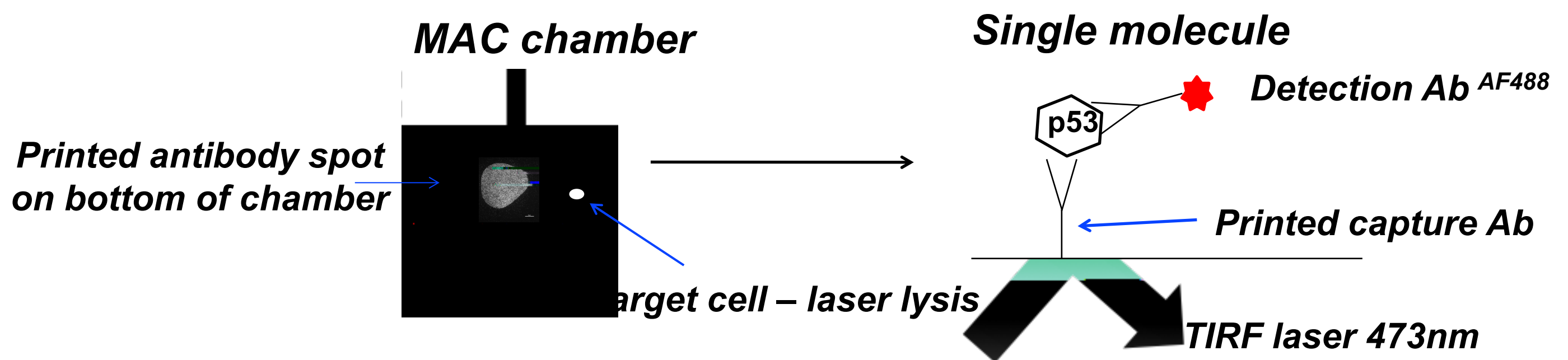
HIROSHIMA UNIVERSITY

## Counting single protein molecules in rare single cells isolated from human clinical samples

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A central aspect of cellular systems biology is the study of cell to-cell variability driven by network control of molecular noise. Proteins are produced in stochastic bursts and, although time averaging smoothes their accumulated levels, variation in their copy number is substantial in members of environmental sensing and signalling networks. We have developed a label free microfluidic antibody capture chip platform called the MAC chip, to quantify precisely the copy numbers of many proteins from single cell in a multiplexed single assay format. We have benchmarked the platform in tissue culture cell lines and are now using it to investigate single cells isolated from patients.



本 研究科共同

**催日時 平成 29 年 12月 1日( ) 14:00-15:00**

**会場 広島大学先端科学 合研究棟 4F 405N 室**

問 合 先

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