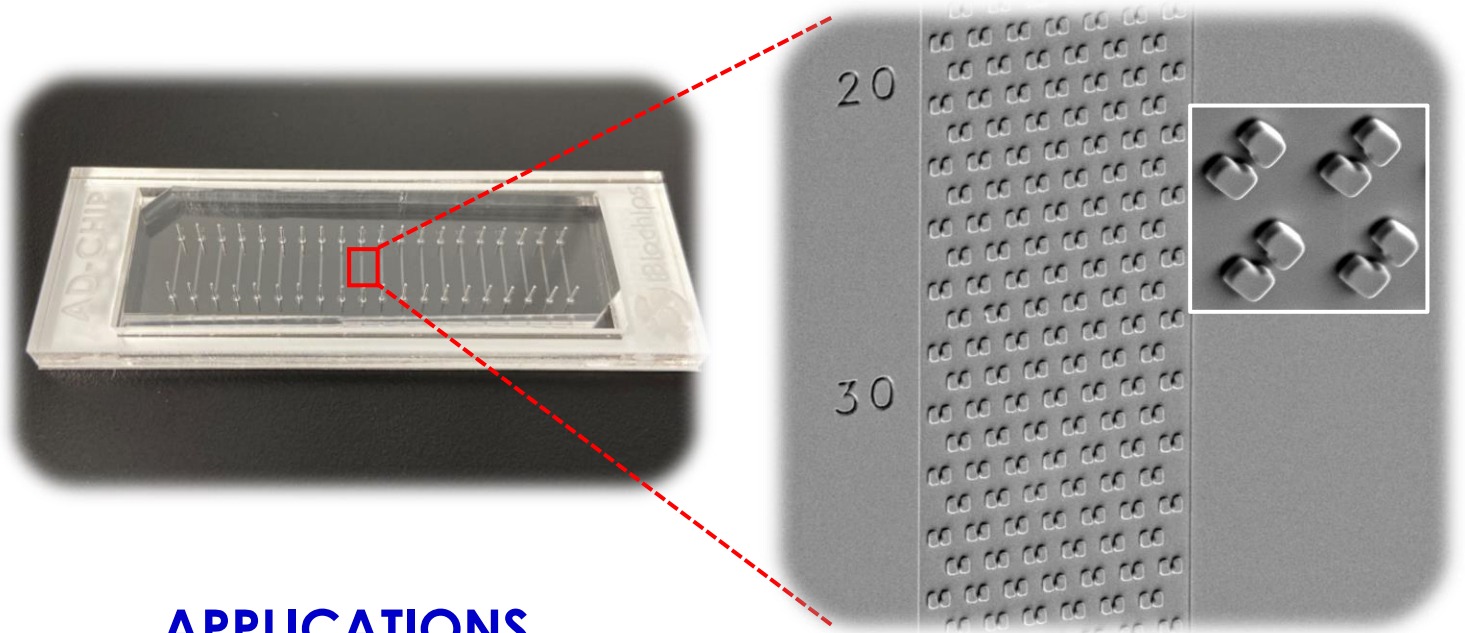


High-throughput Analysis of Yeast-Based Studies**APPLICATIONS**

**High-Throughput
Replicative Lifespan Assay**

**Genetic Screening for Longevity
Associated Genes**

**Proteomic Screening for Protein
Turnover and Relocalization**

**Nutrient Sensing and
Signaling Pathways**



Features of AD-Chip SC

High-Throughput To Reduce Labor & Time Costs:

Automated whole-lifespan tracking of over 10,000 single yeast cells for 20 different strains in 3 days

High-Resolution Imaging:

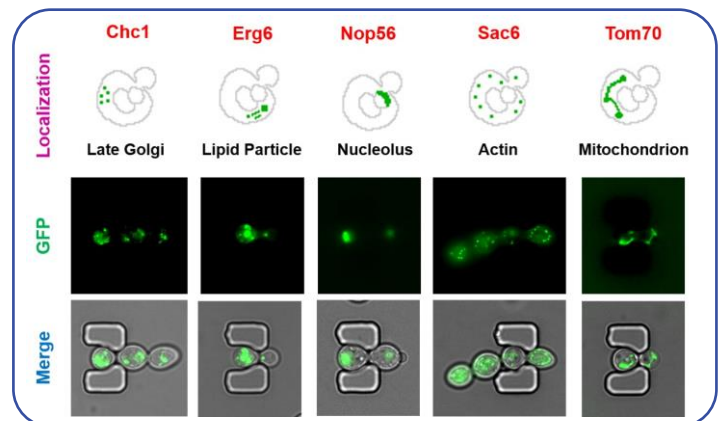
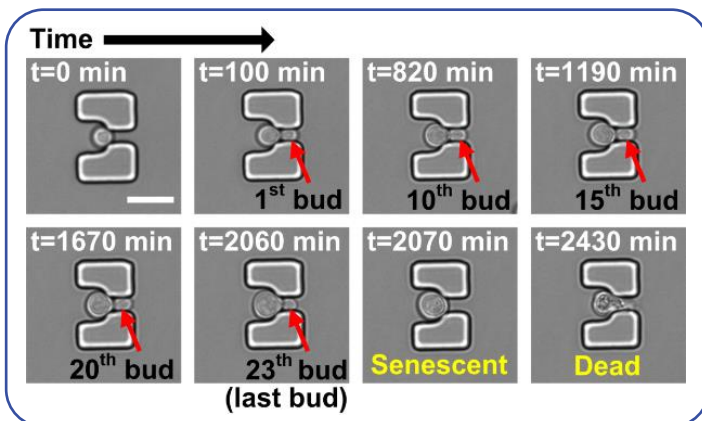
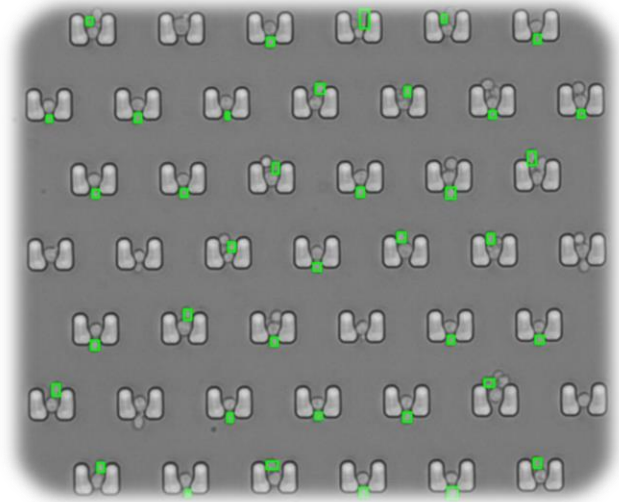
Compatible with continuous high-resolution (fluorescent) imaging of single cells during entire aging process

Maintaining Constant Growth Condition:

Supply of continuous flow of fresh medium, minimizing variations introduced by operators and environment

Time-Lapse Image Analysis Software:

Automatic counting of daughter cells produced by individual mothers (upon request)



Reference: M.C. Jo, et al. "High-throughput analysis of yeast replicative aging using a microfluidic system." *PNAS*, vol. 112 (2015), 9364–9369.

Specifications of AD-Chip SC

Material	<ul style="list-style-type: none"> • PDMS, PMMA, Glass
Dimensions (L x W x H)	<ul style="list-style-type: none"> • 75 x 25 x 4mm
Substrate	<ul style="list-style-type: none"> • Glass coverslip (0.17mm thickness) allowing up to 100X oil objective
Number of single-cell traps	<ul style="list-style-type: none"> • Total 18,000 traps (900 traps x 20 separate channels)
Number of inlets	<ul style="list-style-type: none"> • 20 media & cells inlets