



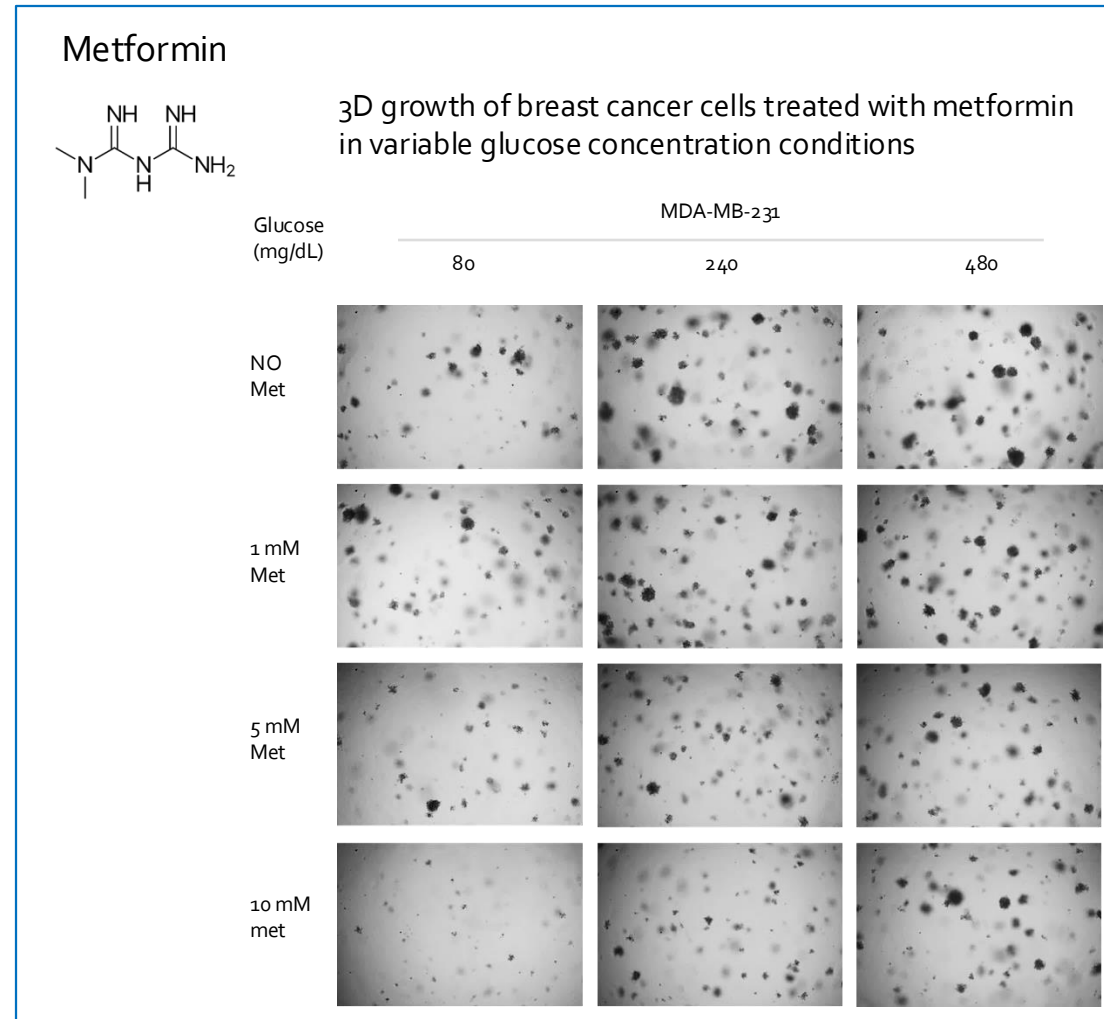
# Tumorigenesis 3D in vitro test: automated quantification/analysis of spheroid formation

Prof. Brandi



## Tumorigenesis 3D *in vitro* test: automated quantification/analysis of spheroid formation

- 2D *in vitro* test: antiproliferative assays (MTS assay)
- 3D *in vitro* test: translational relevance for antitumorigenic assays and recurrence prevention



- Spheroid quantification (*Manual count*):
- Time consuming
- Laborious
- Difficult to achieve objectivity
- No dimension information

# VITALITY SPOKE 8 WP1

## Task 8.1.3

*Infrastructure for  
chemopreventive and  
antitumorigenic  
properties evaluation*

## Tumorigenesis 3D *in vitro* test: automated quantification/analysis of spheroid formation

- 3D *in vitro* test: automated quantification to screen UNIURB library



GelCount™

Journal citations counter  
0530

Mammalian-cell colony, spheroid and organoid counter



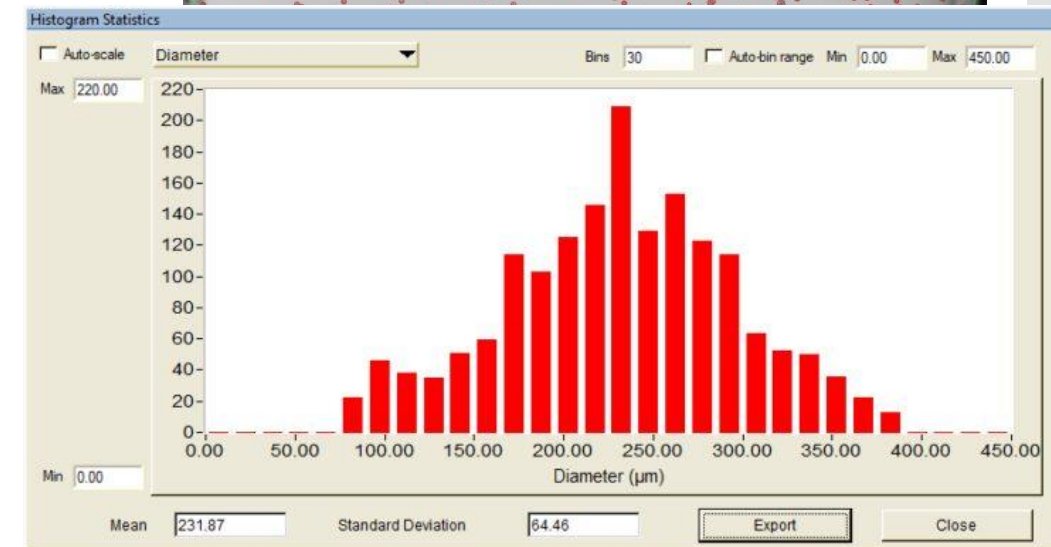
VITALITY

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SPOKE 8

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- 3D *in vitro* test: automated quantification for UNIURB library screening



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Mammalian-cell colony, spheroid and  
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- Key Benefits
- **An integrated colony counting platform** (all-in-one solution for imaging, counting, and characterizing adherent or non-adherent colonies, spheroids, or organoids)
- **Objective 'machine' counting** (colony counts and colony size distribution)
- **High throughput performance**
- **Versatility** (both adherent and non-adherent colonies)
- **Individual colony statistics** (colony and cell growth dynamics analysis)