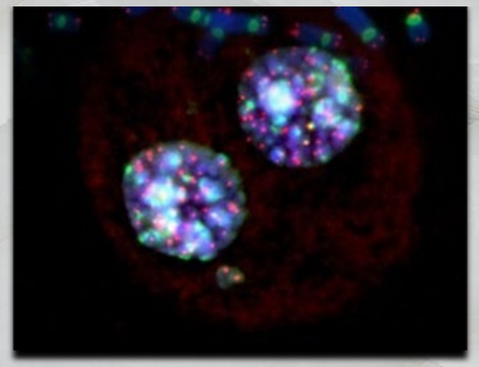
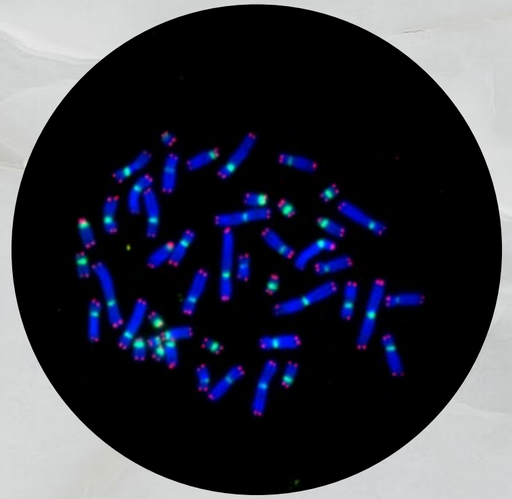
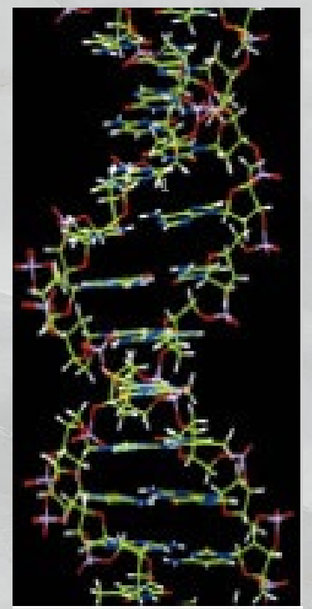
Your research service outsourced company to

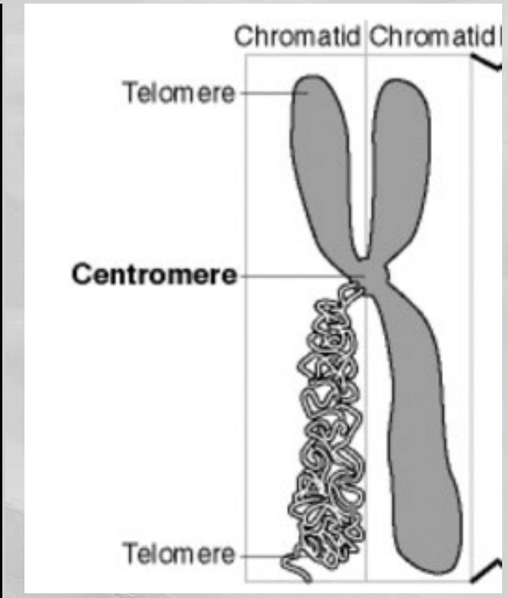
"Prevent" the "cancer" risk

GLP compliance ANSM &GIPC







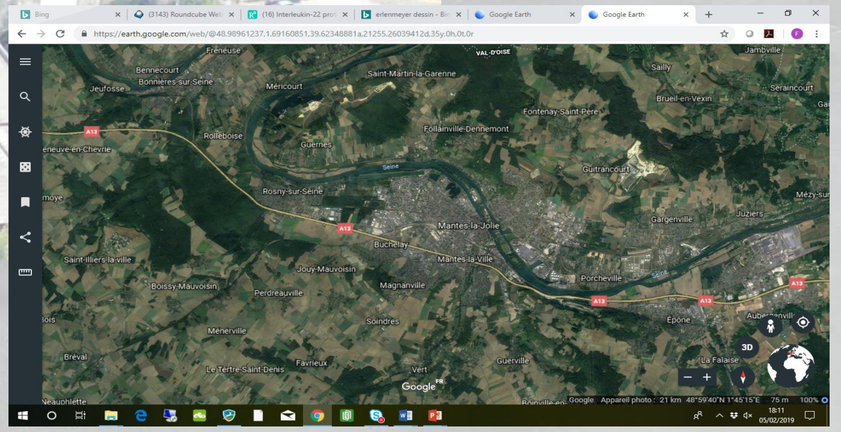


Who are we? Independent Facilities on SEQENS Labs site

GenEvolutioN Laboratories 75 m2- L2+

Equipment advanced technology

Site R&D SEQENS



GENEVOLUTION®

a CRO with genotoxicity expertise

INNOVATION

GenEvolutioN Holding SAS (February 2018)

Francis Finot, Chairman, DIE

Status «A» GLP

2018, 2021

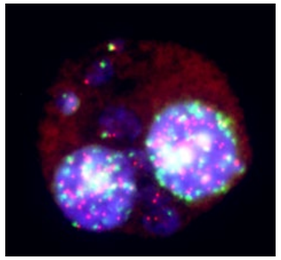
GenEvolutioN Prospective & Innovation Group

Research activity
Technology transfert

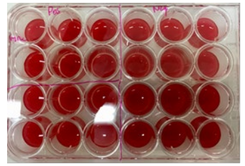
GenEvolutioN Testing Group

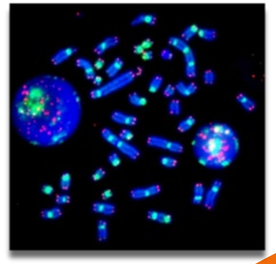
Regulatory tests

GLP services or miniaturized

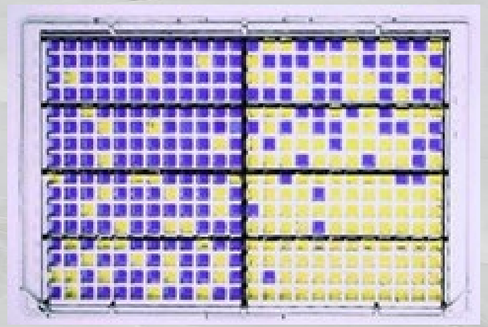


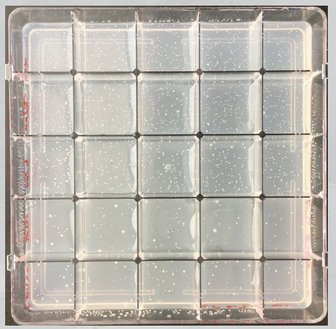
Tests and Guidelines	Description
Ames Test OECD 471	Detection of mutagen compounds in contact with humans or animals
HLCA test (innovation telo/centromère) OECD 473	Chromosomal aberration test
Micronucleus test (innovation (telo/centromère) OCDE 487	Detection clastogen and aneugens effects
in vitro Phototoxicity OECD 432	Sun effect on compound and on human skin
in vitro Cytotoxicity OECD 432	*In vitro* toxicity on cell lines
in vitro irritation/ corrosion OECD431/439	Irritation on reconstructed human epiderminis
GARD (Genomic Allergen Rapid Detection) in vitro (LLNA alternative)	Hypersensitivity of pure test article or mixture in partnership with SENZAGEN
in vitro Endocrine disruptions	YES / YAS transfected yeasts in partenership with XenometriX
Expertise	Analyze the process of the test of the customer and propose tests or specific solutions



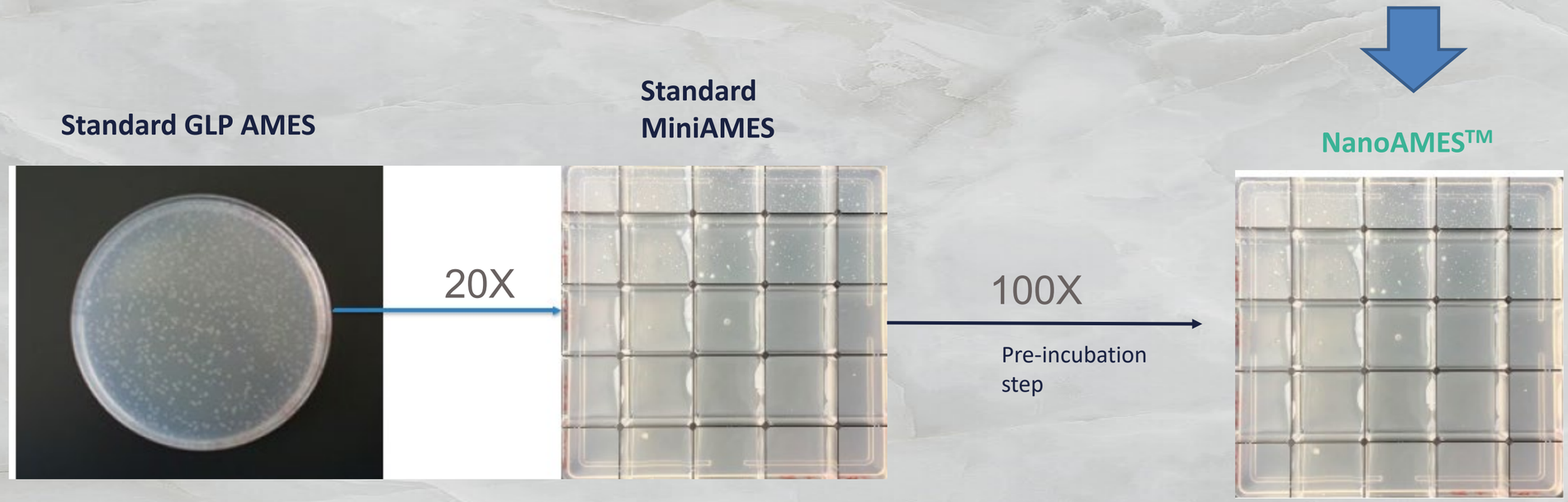


Bacterial Mutation Test
Ames test
Standard/ Treat and
Wash/Fluctuation
NanoAmes





NanoAMES™ assay development



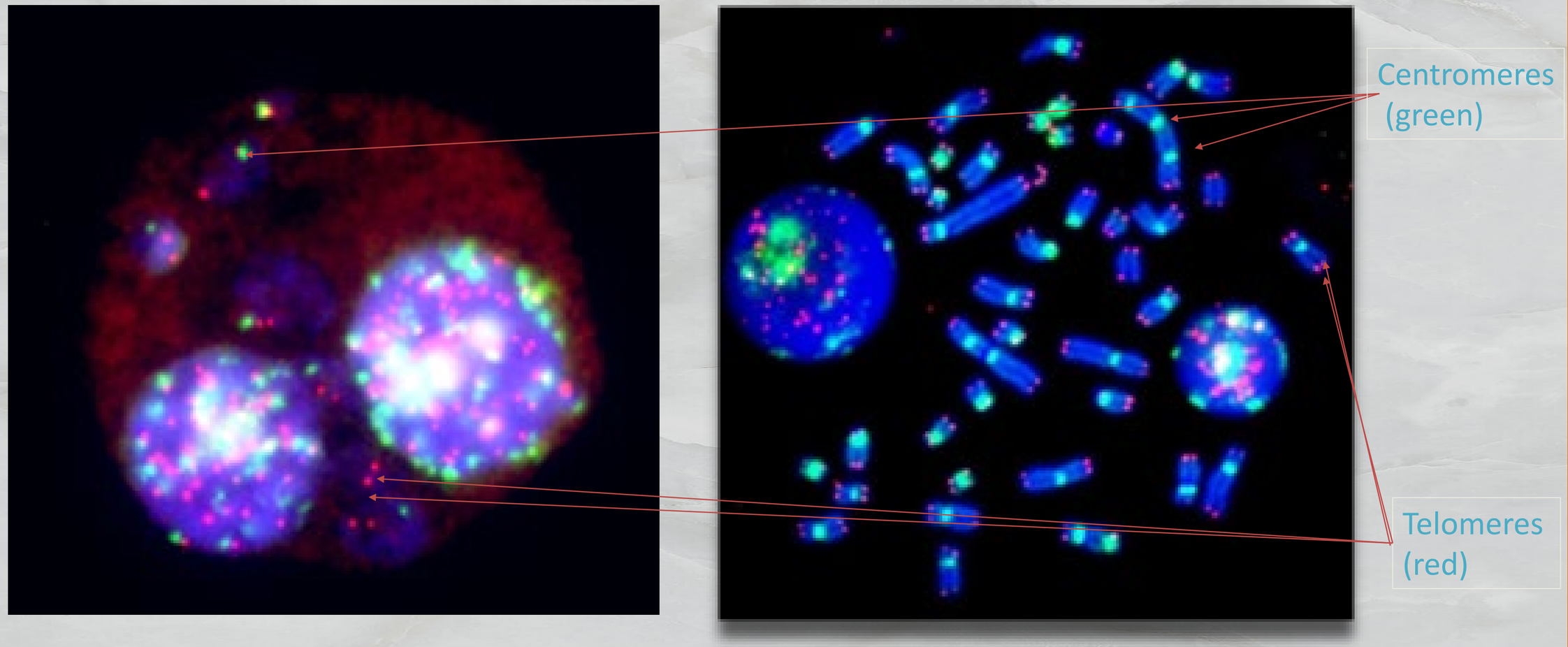
2000X to standard AMES

5000 µg/plate for Standard Test
(quantity required 500 mg)

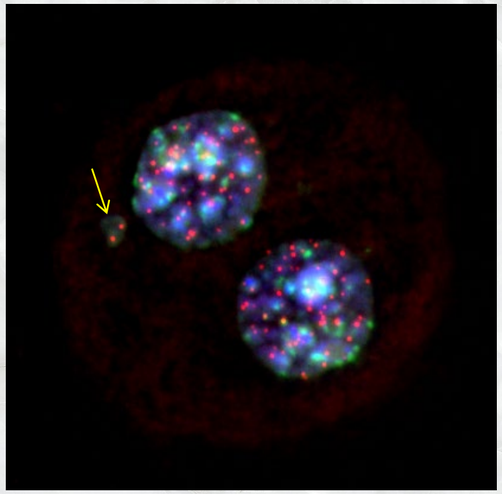
250 µg/well for MINI Ames
(quantity required 35 mg)

2.5 µg/well for NANO AMES (quantity required 35 µg 2 main strains)

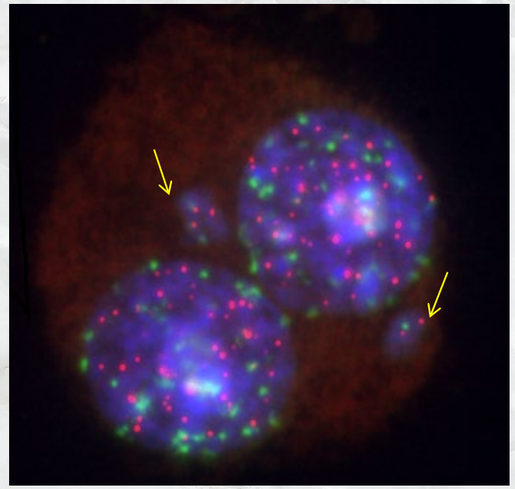
In vitro Cytogenetic tests Micronucleus/Chromosomal Aberration/ GLP



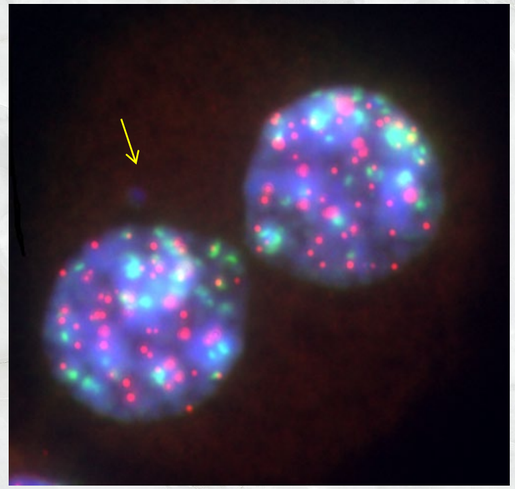
In vitro Micronucleus test GLP, and non GLP



MN with only telomere sequences : clastogen



MN with telomere and centromere sequences: aneugen



MN without telomere and centromere sequences

After telomere and centromere staining, it is easy to detect the cytoplasm due to slight fluorescent background : no further coloration is needed

Better characterization of micronucleus with double labelling Telomere centromere

Jan 2022

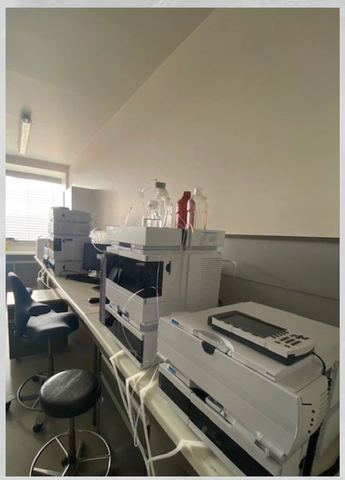
Example of image analyser

NEW SERVICES

Phototoxicity

Regulatory Archiving high quality level , ie GLP:

- Surface 600 m2,
- About 8000 boxes



Formulation analysis

To conclude GenEvolutioN commitments

Innovative company with human size that gives answers in the field of health and ability to develop tests for you

Short timelines : 4-6 weeks (GLP Micronucleus) report included (safe time)
GLP compliance Status “A”,

Skilled (25 to 39 years in field) and reactive team

A customized/personalized support in the development of your projects , and also for SME and Biotech

Merci !

Thank you !

감사 해요 !