

Harmonic Pharma presents : **SAFETY BY DESIGN**[®]



ADEBIOTECH
THINK TANK ONE HEALTH

Alternatives To Animal Experimentation

Innovative technologies to reduce/replace laboratory animals in industry

Biocitech (Romainville-Paris), June 6-7th 2023



SAFETY BY DESIGN®: Safety at the core of compound development

Innovative *in silico* services & software :



- Human safety



- Environment protection



- Alternative to animal testing

In three main areas :



- Pharmaceuticals



- Cosmetics

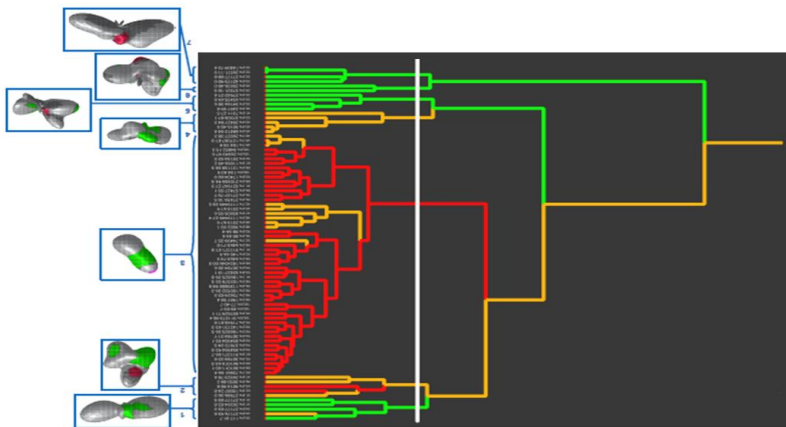


- Specialty ingredients



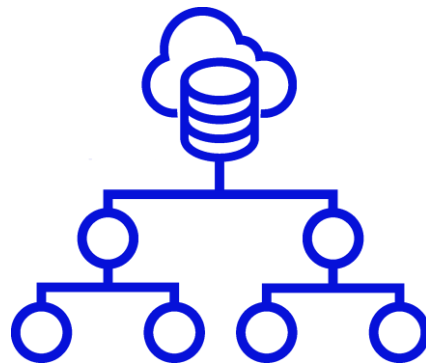
SAFETY BY DESIGN®
for a world with
safer compounds

SAFETY BY DESIGN[®]: New Alternative Method (NAM) to animal testing



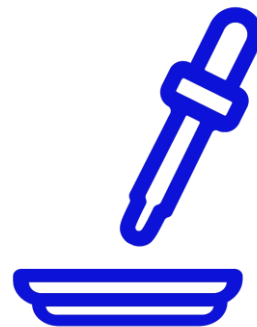
Organize a large set of molecules into a clustering using Spherical Harmonics

+



Predictive *In Silico* toxicology

+



Empower your own experimental data

=

NAM

Select most promising molecules with less animal testing



SAFETY BY DESIGN[®]
for a world with
safer compounds

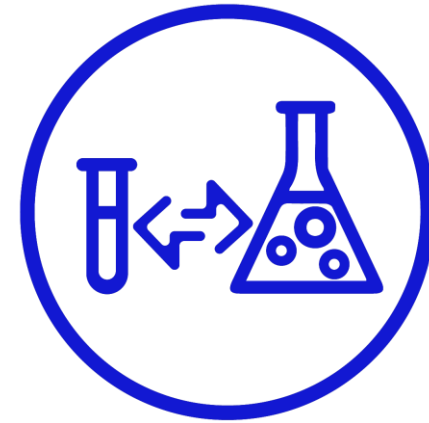
SAFETY BY DESIGN®: Impact on 3 main challenges



Drug/chemical repurposing for novel uses and new markets



Select and prioritize promising chemicals at an early stage



Substitute toxic chemicals for more compliant ones



SAFETY BY DESIGN®
for a world with
safer compounds



Thank you for your attention !

For more information :
contact@harmonicpharma.com