



Association Française
des Sociétés de Services et d'Innovation



Centre de recherche
FRANCAIS

afssi.fr

Les **membres AFSSI**
ont la **parole** ”

WEBINAIRE



Le partenaire incontournable de vos innovations

Proche de chez vous



Your Research & Development Partner - *Make your hit come true !*



Anne Abot, PhD
ENTEROSYS

33 (0) 5 61 28 70-33 / 33 (0) 6 73 75 45 26
Labège (31)
anne.abot@enterosys.com

www.enterosys.com

Les membres AFSSI
ont la parole ”
WEBINAIRE

Qui suis-je ?
La réponse
en 20 min

AFSSI
Association Française
des Sociétés de Services et d'Innovation

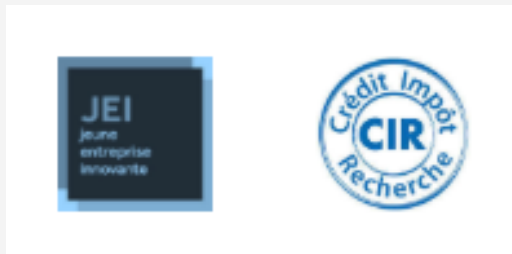
NOTRE ACTIVITÉ

*Enterosys est une société de biotechnologie spécialisée dans l'évaluation de l'efficacité d'actifs de haute qualité, à visée thérapeutique ou de soin.
Notre plateforme unique offre une large gamme de tests de précision in vitro et in vivo.*



Enterosys in a dynamic ecosystem

- Biotech compagny created in 2017
- Located in Labège (near Toulouse)
- In a center dedicated to innovation (Prologue Biotech)
- Animal facilities (ethic protocol, 3R)





Enterosys, experts at your service

- Multidisciplinary team
- Strong entrepreneurial commitment
- Creativity & inventiveness on behalf of innovation




Executive Team



Maxime Fontanié
CEO

Dr. Anne Abot
CSO

Advisory Board



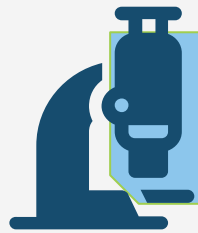
Pr. Claude Knauf
President

Pr. Patrice Cani
Co-founder

Pr. Rémy Burcelin
Co-founder



Enterosys contributes to the health research effort



ACADEMIC RESEARCH

H2020 project

Feder project

> 20 publications

Formation



SERVICES

Preclinical Development

Dermocosmetic

Nutraceutical

Animal Health

Our partners



Our clients



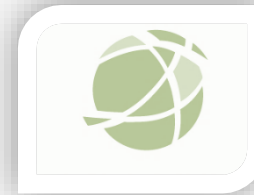


Our technological platforms to create innovation opportunity



EasyGut platform

- Gastrointestinal functions
- Functional screening on pathologic models
- Duodenal Peptides biobanks (Human, Mouse)
- Drug discovery in Gut-Brain axis pathologies



EasyRox platform

- ROS / RNS release in real time
- Biomarkers analysis (qPCR, ELISA, biochemical assays...)



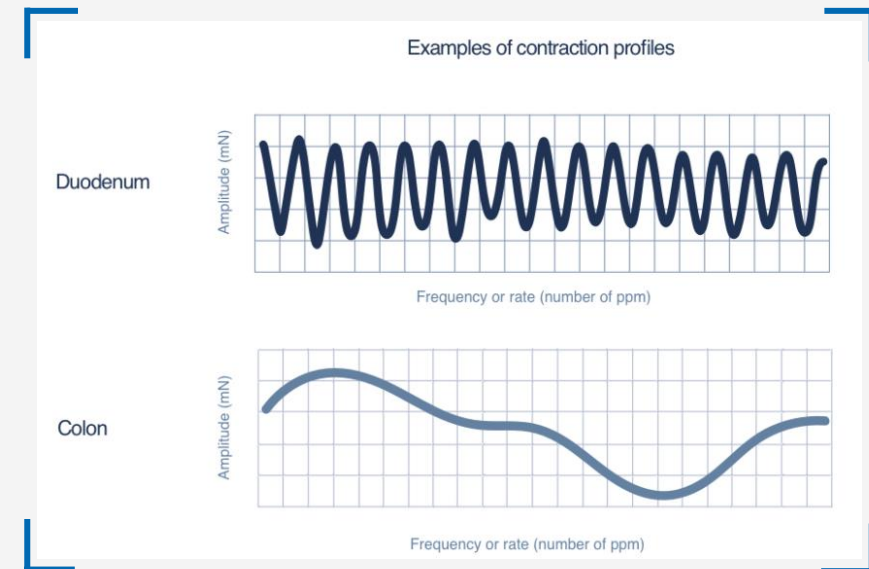
EasyGut platform

Applications and claims

- Screening of compounds (formulation, prebiotics, probiotics...)
- Identification of the targeted intestinal segments (duodenum, jejunum, ileum and colon)
- Characterization or consolidation of the therapeutic effects
- Characterization or consolidation of the mechanism of action involving the enteric nervous system
- (Re)positioning of your compound



Gut motility





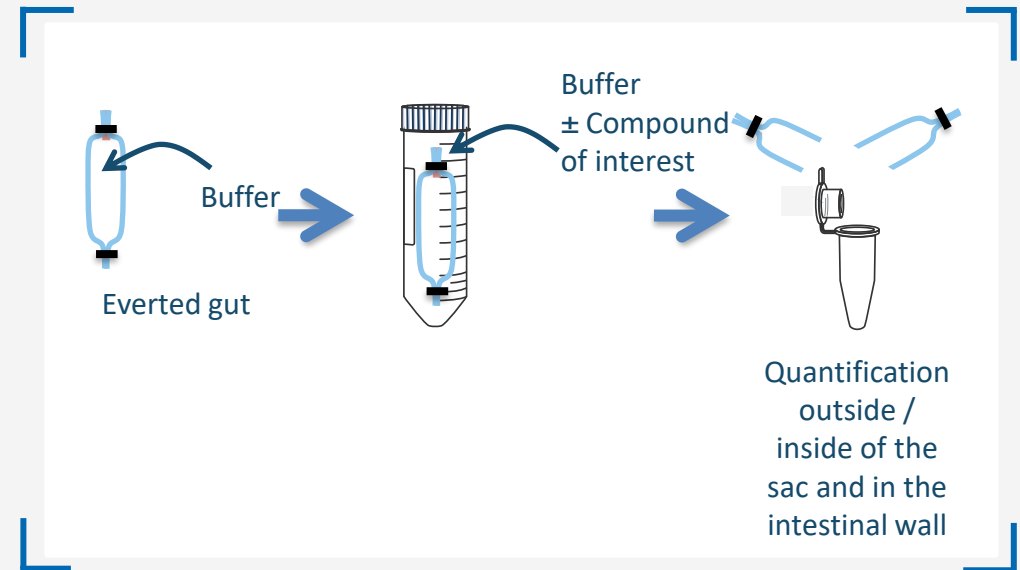
EasyGut platform

Applications and claims

- Everted small intestinal sac model
- Permeability assay
- Screening of compounds (formulation, prebiotics, probiotics...)
- Identification of the targeted intestinal segments (duodenum, jejunum, ileum and colon)
- Assessment of epithelial barrier selectivity / transport of bioactive compounds across intestinal wall



Intestinal Absorption





EasyGut platform

Applications and claims

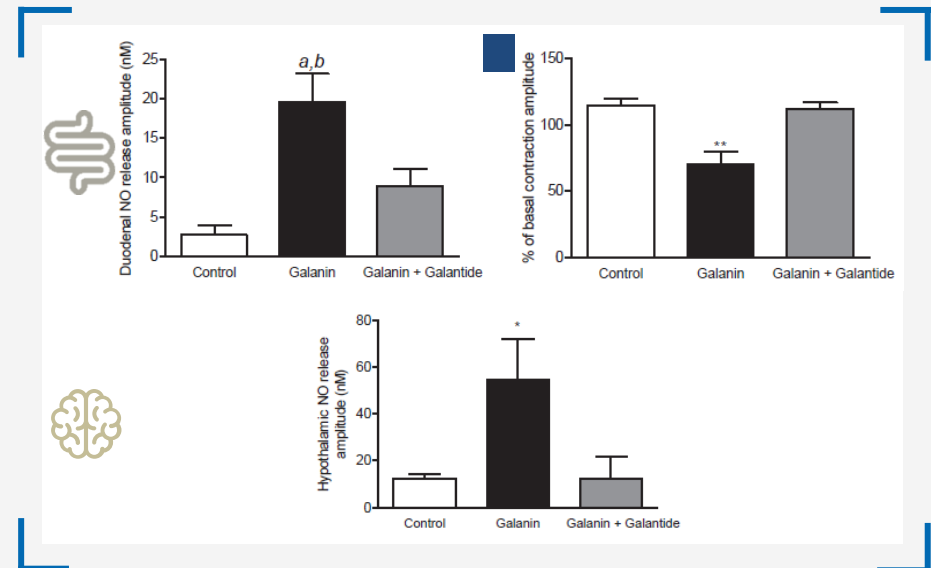
- Neurotransmitter release
- NO is a major neurotransmitter

=> in the gut: impact on activity of enteric nervous system and gut relaxation

=> in the hypothalamus: impact on the regulation of autonomic nervous system



Gut-brain communication

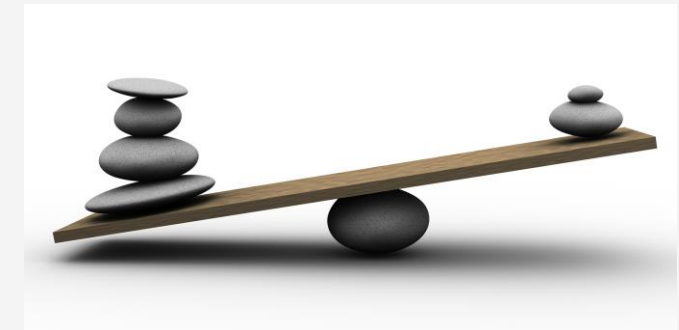
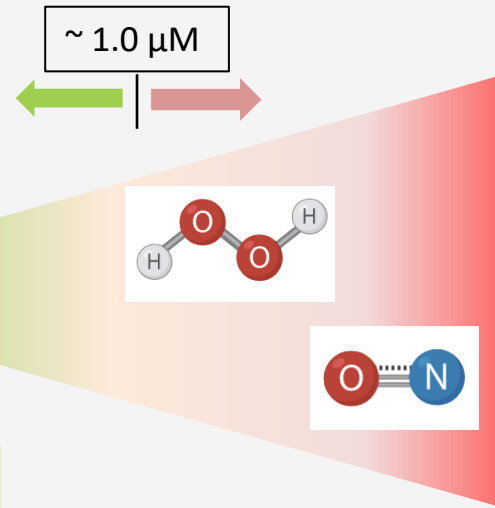
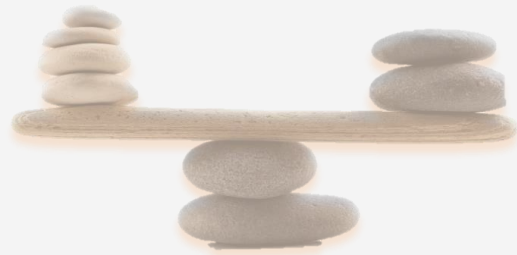


Abot A. et al., Mol Metab 2018
(Other data involved gut microbiota Abot A. et al, Gut 2020)



EasyRox platform

ROS/RNS: Predictive Biomarkers of Toxicity



- Vascular tone & permeability
- Neurotransmission
- Immune system
- Cell growth, migration
- Chemotaxis

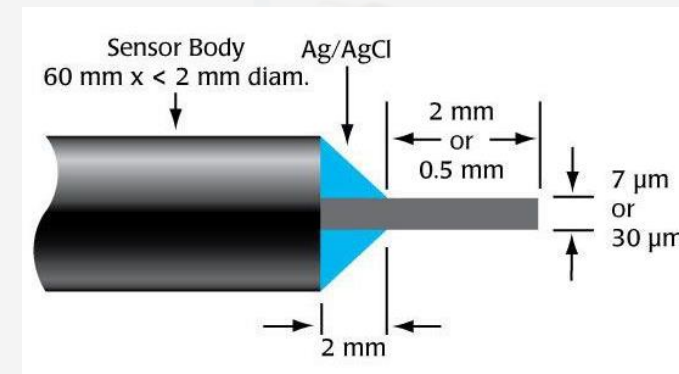
- Lipid peroxidation
- DNA damage
- Protein//enzyme dysfunction
- Apoptosis
- Mitochondrial stress



EasyRox platform

ROS/RNS: Predictive Biomarkers of Toxicity

- Highly specific amperometry probes to **selectively** measure NO or H₂O₂
- Exquisitely sensitive at **physiologic levels**
From 0.2 nM to μ M
Accuracy 1-10 pA/nM
- **Real-time, continuous** direct measurements
Up to 10 measures/second
- Validated against Western Blot and Amplex Red





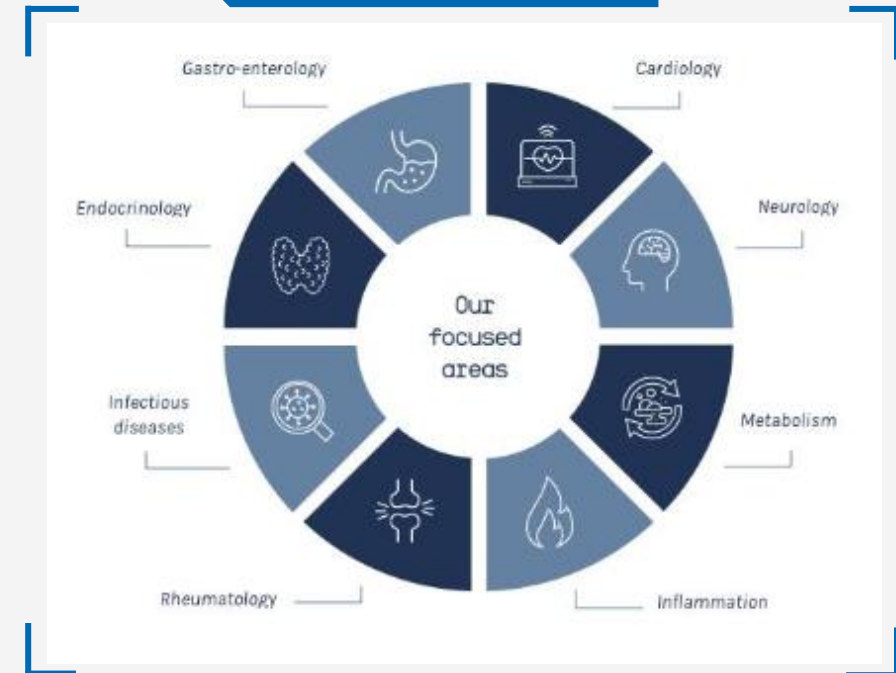
EasyRox platform

Applications and claims

- *In vitro / ex vivo / in vivo* models
- Assess antioxidative effects of your hits in physiological and pathological states
- Perform a (re)positioning study and compare the efficacy/protection of your compounds to a standard
- Develop a screening assay to treat a pathology with an innovative approach



Large range of therapeutic areas





EasyRox platform

Applications and claims

- NO and H₂O₂, as biomarkers involved in skin homeostasis
- Biological models: 2D or 3D cell culture, RHE, Explants
- Assess antioxidative effects of your hits (aging, skin barrier, integrity...)
- Perform a (re)positioning study and compare the efficacy/protection of your compounds to a standard
- Develop a screening assay used in medical research suitable for dermocosmetic

Dermocosmetic





ENTEROSYS, as Lab Accelerator



Our expertise in the science of precision health

CUSTOMIZATION

Tailor-made protocol design
Innovation opportunity

INNOVATION

Original technologies
Adaptability according to the needs of our customers

PERFORMANCE

=> Real time analysis
=> Save time and development cost
=> Accelerate the timeline to drug approvals






Thank you for your attention.

[www https://enterosys.com/](https://enterosys.com/)



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