

WEBINAIRE



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FRANCAIS

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Le partenaire incontournable de **vos innovations**

Proche de chez vous



Your NHP expert partner for preclinical research



cynbiose



cynbiose
respiratory

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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

ACTIVITIES

Specialty CROs providing preclinical research services to assess pharmacological profiles, early safety and efficacy studies of drug candidates.

Core expertise on the non-human primate model.



Cynbiose



cynbiose

- Incorporated in 2008, based near Lyon (France)
- Preclinical CRO with a core expertise on the non-human primate model
- Offer : *in vivo* preclinical services, customized PoC models
- Business model : Fee for Services, R&D programs
- BSL-3 animal facility in France, approved for BSL-2 GMO
- GLP-like quality management system, accredited AAALAC since 2015
- Building a state-of-the-art facility (available from 2022)



Cynbiose Respiratory



- Spin-off from the CEPR (Research Center for Respiratory Diseases INSERM UMR 1100), F. Rabelais University (Tours)
- Incorporated in 2017, based in Tours (France)
- Preclinical CRO dedicated to respiratory diseases & aerosol therapies
- Offer : *in vitro* & *in vivo* (rodent and NHP) preclinical services
- Business model : Fee for Services, R&D programs



OVERVIEW OF OUR PRECLINICAL OFFER

Preclinical services

Inhaled formulations & aerosol devices

Aerosol characterization

Deposition studies to refine the *in vivo* protocol

Pharmacology

- Pharmacokinetics : Blood, CSF, BAL...
- Biodistribution
- Pharmacodynamics

Early safety

Efficacy – PoC

- Clinically relevant models
- Available or on-demand
- Pharmacological validation



Sponsors

- Start-ups, biotechs and big pharmas
- Academic research teams

Main type of products

- Biologics, immunotherapies, ...
- Vaccines
- Gene and cell therapies
- Small molecules

Main therapeutic areas (PoC models)

- Central Nervous System
- Auto-immune diseases & inflammation
- Cardiovascular diseases
- Infectious & respiratory diseases
- Bone and musculoskeletal disorders



Focus on innovative solutions for preclinical research in infectious diseases



- Efficacy models of bacterial, human viral, parasitic and co-infection
 - Catalogue of NHP models for tropical infections
 - Innovative NHP models for respiratory viral infections : **hRSV, hMPV**
 - Rodent models of acute and chronic bacterial & viral lung infection
 - On-demand infection models (BSL 1-3)
- On-going collaborative R&D projects : Covibiose (hSARS-CoV-2), sepsis model
- Cynbiome™: the 1st preclinical network of excellence for microbiome and infectious diseases based on the NHP model (PIA3)



Focus on innovative solutions for aerosol therapies



In vitro services

- Inhaled formulations
- Aerosol devices
- Aerosol characterization
- **Nasal / Pulmonary deposition in anatomical models** (3D casts)
- Bioequivalence studies

In vivo services

- Animal models of **PK & biodistribution** after inhalation/aerosolization
 - ⇒ Pulmonary microdialysis
 - ⇒ Scintigraphy
- **Efficacy models**
- **Pulmonary toxicity**
 - => Respiratory function : lung function measurement and bioanalysis

Nose-to-brain delivery

Full exploratory package:

- **Complete *in vivo* CNS PK and Biodistribution**
 - Sampling of blood, cerebrospinal fluid, cerebral microdialysis
- **Efficacy models**
- **Neurotoxicity**
 - Observation grid
 - Behavioral tasks
 - Imaging



5 take-home messages

- De-risk your lead candidates and maximize your IND with a clinically relevant species
- Scientific and technical advice
- Design of complex protocols, high added-value data in a robust QMS
- Experienced teams, flexibility and agility
- Strong customer relationship

Bridge the gap between preclinical and clinical research



Thank you for your attention!

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