

Alaxia

Meveol program supported by





MUCOVISCIDOSE INNOVATION developper et promouvoir pour vivre plus



Location and Primary Focus

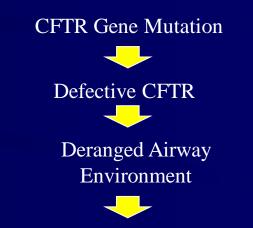
- Incorporated in 2008, ALAXIA is a private biotech company based in Lyon, France
- Main Focus: Development of medicinal products targeting respiratory diseases, Products exiting our Peroxidase platform.
- 1st Product : Meveol[®] for Cystic Fibrosis

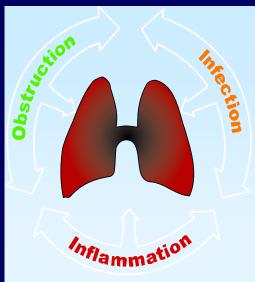
Cystic Fibrosis



Physiopathology:

- Genetic disease of the body's mucus glands
- ► Rare disease 1.2/10,000 in EU
- > Affects the respiratory and digestive systems
- ➢ Implication of CFTR* Gene − CFTR Protein







What happens in Cystic Fibrosis lungs?

CFTR is defective

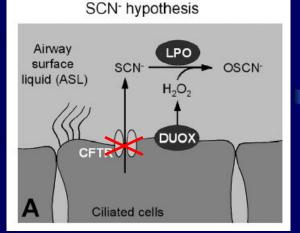
• Chronic Inflammation

• Lack of antimicrobial molecules

Stailure in inhibition of bacterial growth

Childers et al., 2007 \Rightarrow SCN⁻ doesn't cross CFTR Moskwa et al., 2007 \Rightarrow Lack of OSCN⁻ in CF Conner et al., 2007 \Rightarrow Defective LPS in CF





Fischer, 2009

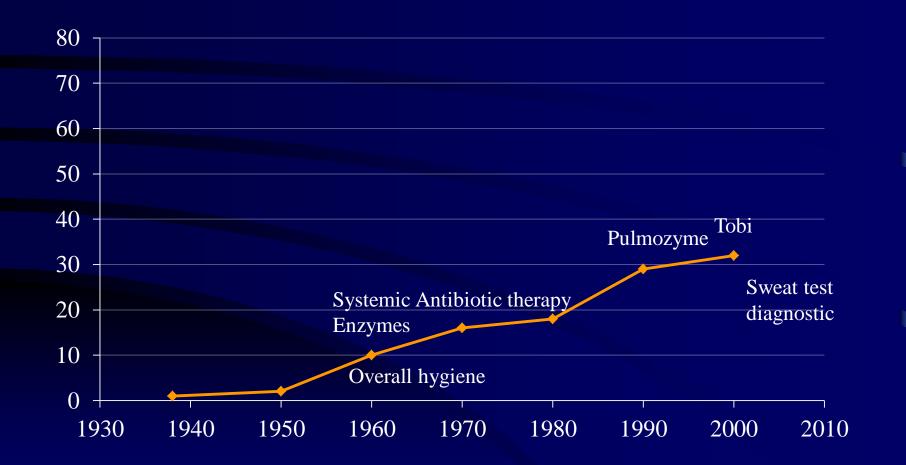
• Thick mucus

♦ defective mucociliary transport

CF lung sensitive to opportunist pathogens responsible of lethal infections



Life Expectancy



MEVEOL

www.alaxia-pharma.eu

Program supported by





Concept

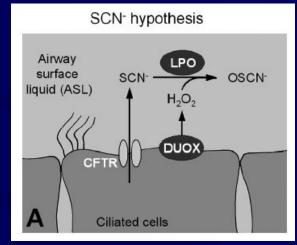


How do normal airways prevent and resolve bacterial infections?

Airways epithelial cells secrete :

• Various antimicrobial molecules

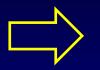
inhibition of bacterial growth



• Mucus

Fischer, 2009

traps and remove bacteria by mucociliary transport



Healthy lungs resistant to opportunist pathogens



Meveol : Alaxia's First Drug in Development

- Attributes of Meveol (OSCN⁻/Lactoferrin)
 - A designated orphan drug
 - Multiple Patents
 - 1st product exiting peroxidase platform
 - Antimicrobial, wide spectrum,
 - Pseudomonas Aeruginosa , Burkholderia cepacia, MRSA, Mycobacterium abscessus...
 - Mechanism of action:
 - 1) Acts directly on micro-organism metabolism (SH & Fe)
 - 2) Disrupts <u>established</u> biofilm
 - No antibiotic resistance generation
 - Stand alone or/& antibiotic combination
 - Inhalation use
 - Strong scientific background in respiratory
 - Cystic Fibrosis
 - URTI, LRTI,...

Meveol® vs Burkholderia

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10

8

6

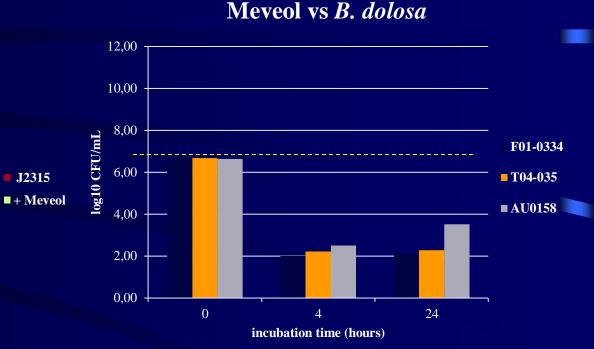
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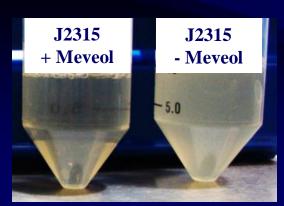
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log10 CFU/mL

Meveol vs B. cenocepacia



Bactericidal effect of Meveol® vs BCC



incubation time (hours)

1,25

18h after inoculation





• Efficacy also demonstrated on other microorganisms (eg *Pseudomonas aeruginosa*, MRSA, *Mycobacterium abscessus*,...), either on planktonic/biofilm





Alaxia news

- Stragen Group Partnership
 - Genève headquarters
 - Pharmaceutical group developing various specialities
 www.stragen.com
 - Lyon based (DG Annie Claude Benichou)
 - Pharmacovigilance & Medical affairs base

www.alaxia-pharma.eu



Meveol

Cystic Fibrosis Innate lung defense system compensation

Come to see us – booth 23 35th European Cystic Fibrosis Conference Dublin, June 6-9th 2012

