UNIVERSITÉ DE LILLE

CNRS UMR 8576 (UGSF) | Inserm U1285 | France

PARTNER CAPABILITY PROFILE

Innovative antimicrobials & host–microbiome interactions

HORIZON-HLTH-2027-01-DISEASE-08



SCIENTIFIC PROFILE

Samir Jawhara | Microbiology, fungal pathogenesis & immunology

Research expertise spanning over 20 years in antifungal discovery, host immune-inflammatory responses, gut microbiota and intestinal dysbiosis.

CORE SCIENTIFIC EXPERTISE

- **Antifungal resistance & fungal pathogens**
  Candida albicans, C. auris, C. glabrata and C. parapsilosis
- **Innovative antimicrobial discovery**
  Natural and synthetic compounds; susceptibility, biofilm and mechanism studies
- **Intestinal microbiota & dysbiosis**
  Aerobic/anaerobic bacteria, fungal–bacterial interactions and microbiome profiling
- **Probiotic microorganisms**
  S. boulardii, S. cerevisiae and Lactobacillus acidophilus
- **Host response & intestinal inflammation**
  Immune-inflammatory pathways, epithelial barrier function and preclinical models

COLLABORATION OBJECTIVE

Contribute experimental expertise to multidisciplinary European consortia developing innovative antimicrobials and microbiota-oriented therapeutic strategies.

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EXPERIMENTAL PLATFORMS & CONSORTIUM VALUE

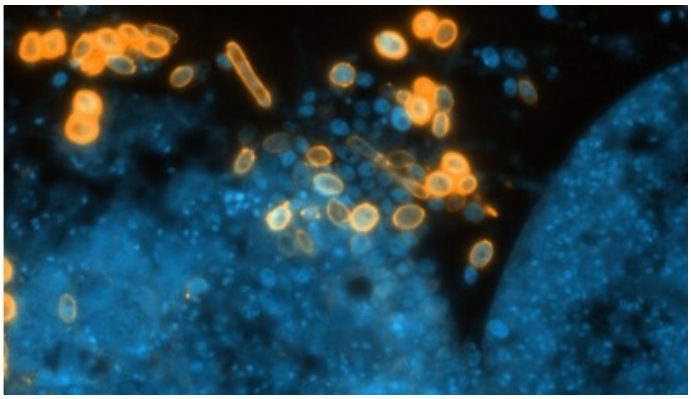
EXPERIMENTAL CAPABILITIES

- **Antifungal susceptibility, biofilms, filamentation, membrane and mitochondrial assays**
- **THP-1 macrophages, Caco-2 epithelial cells, ROS and inflammatory readouts**
- **C. elegans infection, survival and cytotoxicity assays**
- **Murine DSS-induced intestinal inflammation and microbiota-associated endpoints**

C. ELEGANS INFECTION MODEL



C. elegans — uninfected control



C. elegans infected with C. albicans

VALUE FOR EUROPEAN CONSORTIA

- **Antimicrobial lead screening and early safety assessment**
- **Mechanistic studies of fungal virulence and host response**
- **Intestinal dysbiosis, probiotic research and preclinical validation**

LOCATION & CONTACT



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