FunHoMic

Deciphering the fungus-host-microbiota interplay to improve the management of fungal infections

PhD positions available

Marie Skłodowska-Curie Innovative Training Network

FunHoMic is a Marie Skłodowska-Curie Innovative Training Network that integrates experts in fungal pathogenesis, immunology, microbial ecology and omics technologies to **train 13 Early Stage Researchers (ESRs)**. In their research projects, FunHoMic ESRs will tackle the interaction between pathogenic fungi, the host and the microbiota in order to identify novel biomarkers (fungal or host genetic polymorphisms, microbiota profiles, metabolites or immune markers) for the stratification of a patient's risk of serious fungal infection. This will pave the way for precision medicine in patient management through preventive or therapeutic interventions using antifungals, immune modulators or Live Biotherapeutic Products (LBPs).

FunHoMic is coordinated by Christophe d'Enfert at Institut Pasteur and brings together 7 academic partners and 3 SMEs. FunHoMic has started on the 1st of January 2019 and will last 4 years. PhD positions are for three years, starting in 2019.

AVAILABLE PROJECTS

ESR1: Integration of micro- and mycobiome

(VHIR) sequence data

ESR2: Developing biomimetic tissue models to (MIMETAS) study the fungal-host-microbiota interplay

ESR3: Application of the SHIME technology (ProDigest) platform to assess the interplay between fungi and bacteria in the human gut

ESR4: Assessment of the secreted metabolome in (BIOASTER) Candida albicans

ESR5: Impact of fungal cell surface variability
(Uni. of upon fungal interactions with the host and Aberdeen) microbiota

ESR6: Molecular basis of niche specificity in (IP) Candida albicans

ESR7: Impact of microbiota diversity and *Candida* (HKI) colonization on systemic candidiasis

ESR8: Adaptation of Candida albicans
(Uni. of Zurich) to variations in the host and in the microbiota

ESR9: Microbiome and host genetics interaction (Radboudumc) in the susceptibility to recurrent vulvovaginal candidiasis

ESR10: Influence of the microbiota on *Candida*(IP) *albicans* gastrointestinal colonization in healthy individuals

(Uni. of Microorganisms to prevent fungal Aberdeen) infection

(HKI) host-Candida interplay in commensalism and pathogenicity

ESR13: Lcr35® mechanism of action on *Candida* (biose) *albicans*

For more information and contact details visit: WWW.FUNHOMIC.EU

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