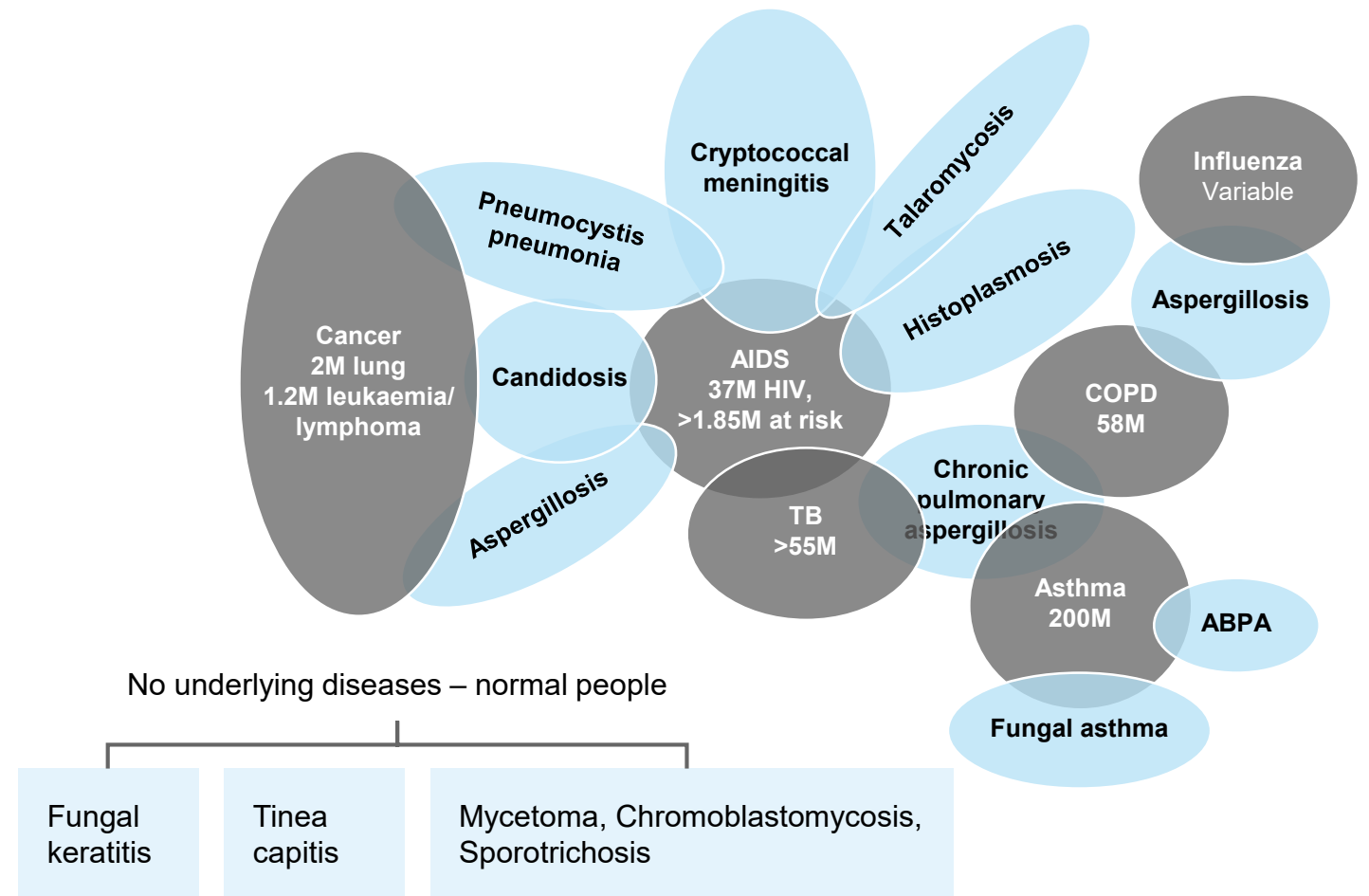


Evotec

Integrated Drug Discovery in Antifungal Research

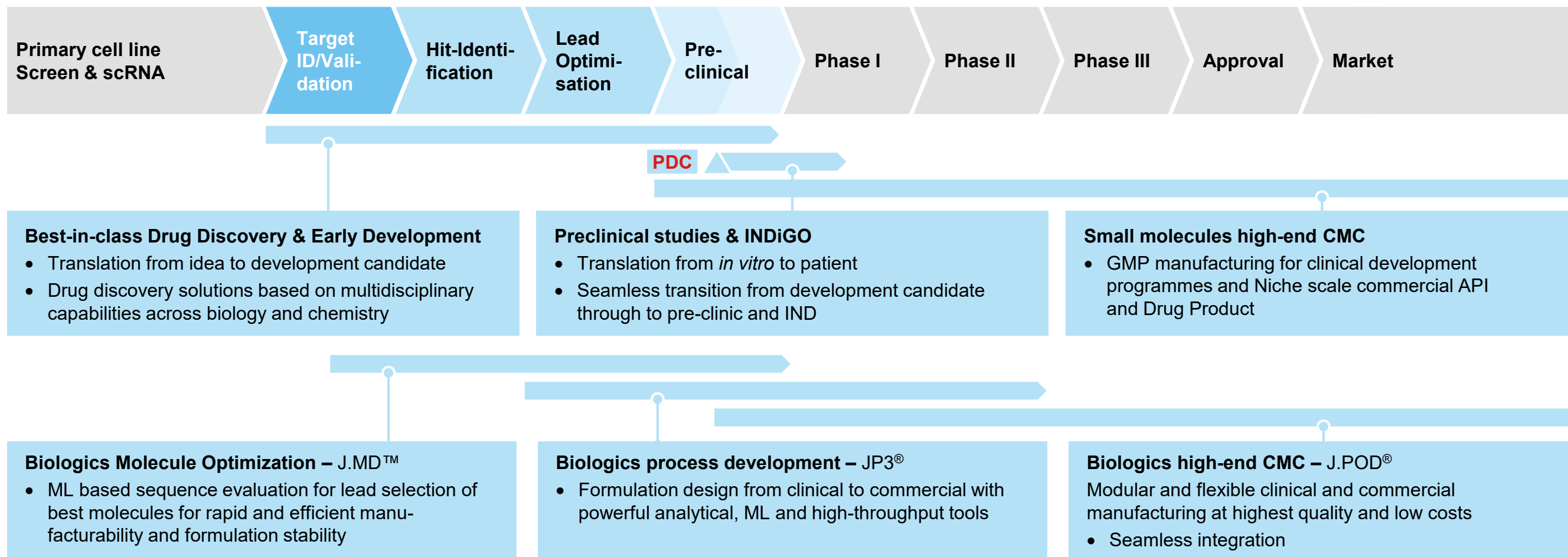
Global burden of fungal disease

- Globally, over 300 million people are afflicted with a serious fungal infection and 25 million are at high risk of dying or losing their sight
- Estimates for the global burden of fungal diseases are based on population and disease demographics (age, gender, HIV infected, asthma etc.)
- Fungal diseases can be
 - Acute and severe (i.e. cryptococcal meningitis and fungal eye infection (keratitis))
 - Recurrent (i.e. *Candida* vaginitis or oral candidiasis in AIDS)
 - Chronic (i.e. chronic pulmonary aspergillosis or fungal hair infection (tinea capitis))



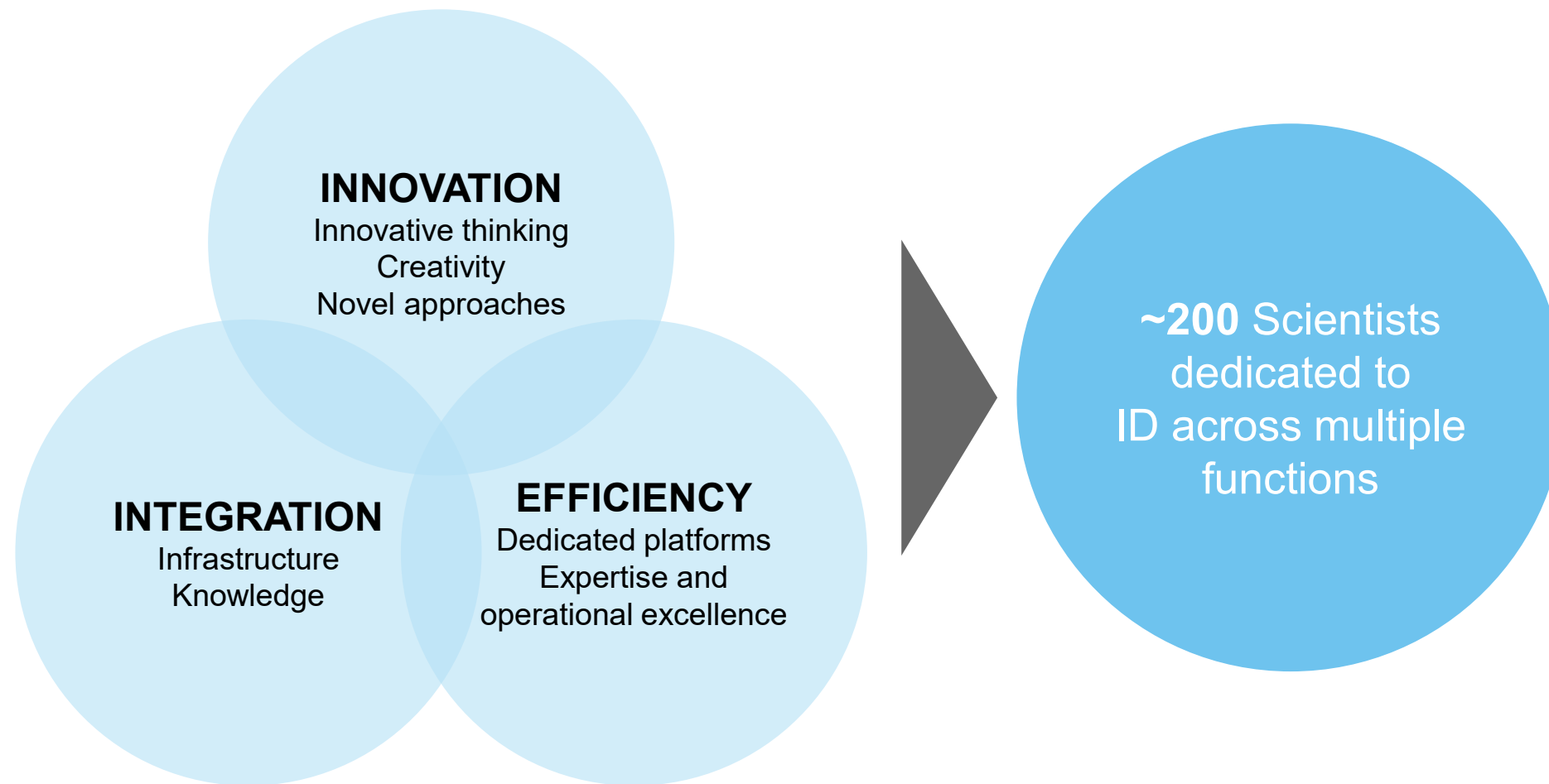
Relevant, seamless and state of the art

Integrated value chain



Evotec is confronting the renewed challenge in Infectious Diseases

Innovation and operational excellence



Fully integrated drug discovery and disease biology

Combining world-class expertise and platforms

- **Deep rooted heritage in ID:**
High calibre scientists
- **Strong expertise:** Dedicated technologies and scientific platforms
- **Global partner network:**
Foundations, BRIDGES, KOLs
- **EvostrAIn™:** Highly valuable collection of ~10,000 strains from clinic and reference collections including ~300 fungal isolates
- ***In vivo* pharmacology and biomarker solutions:**
Efficacy, PK/PD, *ex vivo* platform



- **Designing a TPP-driven strategy & screening cascade**
 - From HTS to Lead identification and optimization
 - Clear criteria for progression
 - Link between *in vitro* activity and *in vivo* efficacy
- **Supporting the development of multiple therapeutic modalities**
 - From small molecules to biologics and large molecules
 - Traditional and non-traditional target
 - Full integration with DMPK, Immunology and Toxicology platforms
- **Development of disease models representing pathological conditions**
 - Use of clinical isolates from seriously ill patients
 - Qualify the model on the basis of host infection biomarkers
 - Apply imaging technologies for real time evaluation of progression and infection distribution

The anti-infective autobahn: from discovery biology to the clinic

Seamless program progression from discovery to development

Discovery biology

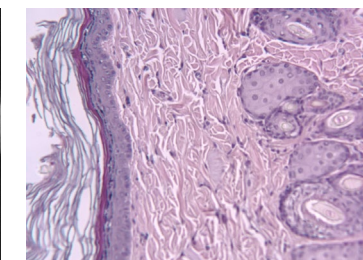
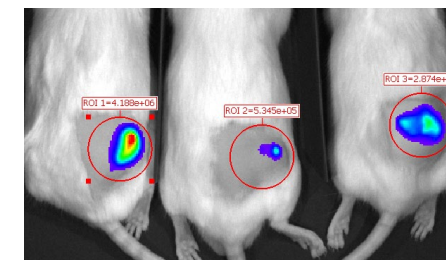
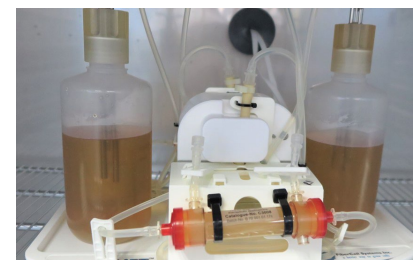
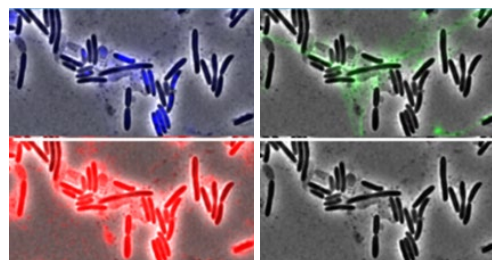
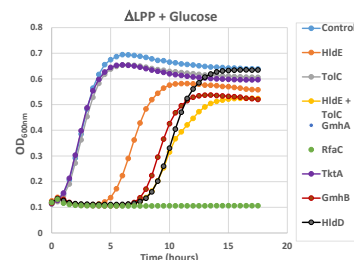
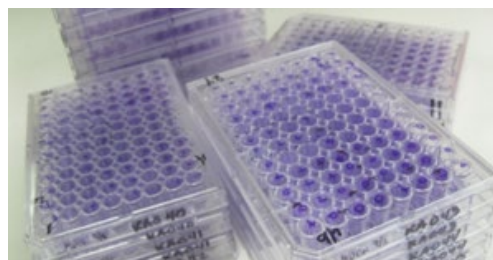
- Standard microbiology on a large strain collection (MIC, MIC₉₀, TKC, FoR, PAE, resistant mutants characterization, etc.)
- Target identification
- MoA/MoR determination and molecular profiling
- Omics and sequencing technologies
- Generation of engineered bacteria
- Target or Whole-cell based assay development

Integrated Drug Discovery

- Label-free bacterial intracellular compound accumulation assay
- Phenotypic screening (Biolog)
- Vivo-mimetic screening
- Target-based screening including fragment approaches
- Medicinal chemistry
- Computational chemistry and structure based drug design
- Highly efficient DMTA cycles

Translational microbiology and PK/PD

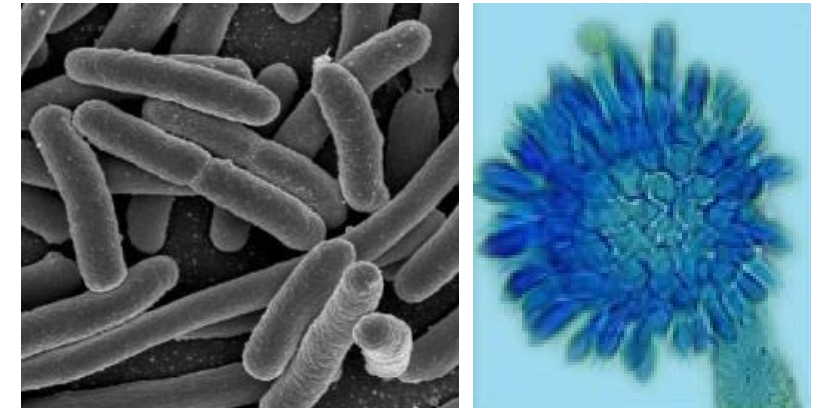
- State of the art *in vivo* DMPK
- *In vivo* microbiology for efficacy profiling
- *In vivo* and *in vitro* PK/PD platforms including Hollow fibre systems
- Mathematical modelling and simulations
- Translation of discovery data to the clinical setting



EvostrAIn™: a dedicated resource for AMR programs

Evotec's collection of characterised strains and clinical isolates

- Constantly evolving resource of thousands of primary clinical isolates and reference strains
- Broad collection of bacteria, fungi, viruses & parasites
 - ~10,000 strains from the clinic and culture collections
 - Global, recent sources with continual refreshment
 - High degree of characterisation (susceptibility profiles, mechanisms of resistance and *in vivo* drug response, genome sequences available)
 - Includes isogenic mutant strains and mutant libraries
- Used to establish spectrum of activity and potential clinical use of new antimicrobials
- Rapidly build bespoke panels
 - Guide SAR
 - MoA / MoR (target validation & identification)
 - TPP validation
 - Translational activities



EvostrAln™

Bacteria, fungi, viruses

Bacteria: Gram positive pathogens

- *Staphylococcus aureus* incl. MRSA, VISA & VRSA strains
- β -Haemolytic *streptococci* groups A, B, C & G
- *Streptococcus pneumoniae* (including penicillin, macrolide, fluoroquinolone, cephalosporin & MDRSP resistant strains)
- Vancomycin Resistant *Enterococci* (VRE)
- *Bacillus* species
- *Listeria* species
- *Corynebacterium* and *Propionibacterium* species
- *Clostridium difficile* (multiple ribotypes incl. 012, 027 & 078)
- Other *Clostridia* (including *C. perfringens*)
- Constituents of gut microbiota
- Mycobacteria (*Mtb* & non-*MTb*)

Bacteria: Gram negative pathogens

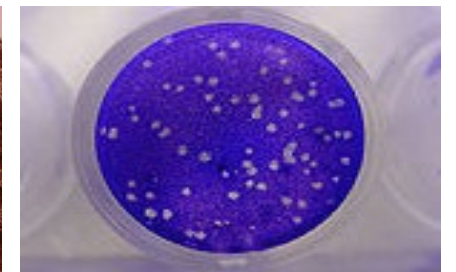
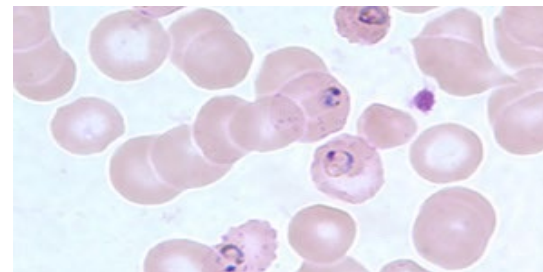
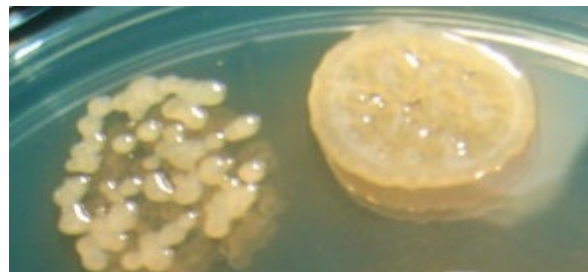
- *E. coli* including Extended Beta lactamase producing strains
- *Klebsiella pneumoniae* Carbapenemase producing strains (KPCs & MDR XDR)
- *Acinetobacter baumannii* incl. MDR XDR
- *Pseudomonas* spp. including MDR XDR
- *Haemophilus influenzae*
- *Bacteroides* spp.
- *Neisseria gonorrhoeae* and *N. meningitidis*
- Intestinal pathogens: *Vibrio* spp, *Campylobacter* spp incl. pylori, *Salmonella* spp, *Shigella* spp, *Yersinia* spp.
- *Legionella* spp. and Chlamydia (ongoing)
- Other Enterobacteriaceae: *Enterobacter*, *Proteus*, *Citrobacter*, *Serratia*, *Prividencia* & *Moraganella*
- *Burkholderia* and *Stenotrophomonas*

Fungi

- *Aspergillus* spp. (resistant to azoles, polyenes and echinocandins)
- *Candida* spp. (resistant to azoles, polyenes and echinocandins)
- *Mucorales*
- *Cryptococcus*
- Dermatophytes (*Fusarium*)

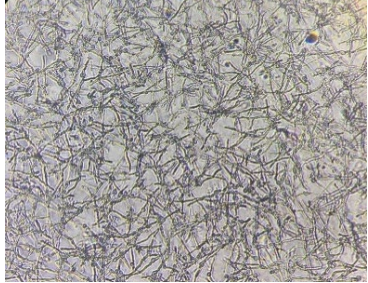
Viruses

- SARS-CoCV2 (all VOC)
- Influenza virus
- Respiratory syncytial virus
- Human rhinovirus
- Human parainfluenza virus
- Human metapneumovirus
- Hepatitis B virus



Breadth and depth of microbiology expertise

Characterisation of microbiological activity



- Antimicrobial Susceptibility Testing and hit follow-up
 - Primary screening
 - Panels of fully susceptible organisms and multidrug resistant strains that exhibit a broad range of resistant mechanisms and phenotypes. Clinically relevant and recently isolated bacterial, fungal and viral panels.
 - Large and rapidly evolving collection of highly characterised clinical isolates and strains (EvostrAIn™)
- Potencies of compounds (MIC/MFC/MPC/IC₅₀)
 - Standardised methods where available (CLSI, EUCAST), miniaturized methods when required (non CLSI)
 - Detailed screening against bespoke panels of pathogens
 - Additional visual endpoint for fungal MEC (minimum effective concentration), defined as lowest concentration in which abnormal, short, and branched hyphal clusters are observed.
 - Enzyme and cellular assays
 - Time Kill Curves
- Combination studies
 - Checkerboard assays to assess synergy, additive activity, and antagonism
 - Mathematical modelling of data

Testing of a panel of clinical *Candida* isolates

Case study

- **Assessment of the *In Vitro* Antifungal Activity of SCY-078 Against a Panel of Susceptible and Resistant Clinical *Candida* Isolates from Europe**
- Collaboration with University Hospital of South Manchester, Manchester, UK
- Evaluation of the *in vitro* antifungal activity of SCY-078 against a panel of recent clinical *Candida* isolates from the EU
- A panel of 270 clinical *Candida* strains isolated from referring hospitals throughout the was tested for sensitivity against SCY-078, Amphotericin B, Anidulafungin, Micafungin, Caspofungin, Fluconazole, Voriconazole and Posaconazole
- Panel composition: *C. albicans* (n=99), *C. glabrata* (n=72), *C. guilliermondii* (n=17), *C. krusei* (n=14), *C. lusitaniae* (n=10), *C. parapsilosis* (n=41), *C. dubliniensis* (n=6), *C. inconspicua* (n=1), *C. kefyr* (n=2) and *C. tropicalis* (n=9)
- SCY-078 demonstrated potent, broad spectrum activity against a panel of clinical *Candida* isolates. Notably, SCY-078 retained activity against all of the echinocandin- and azole-resistant *C. glabrata* isolates tested.

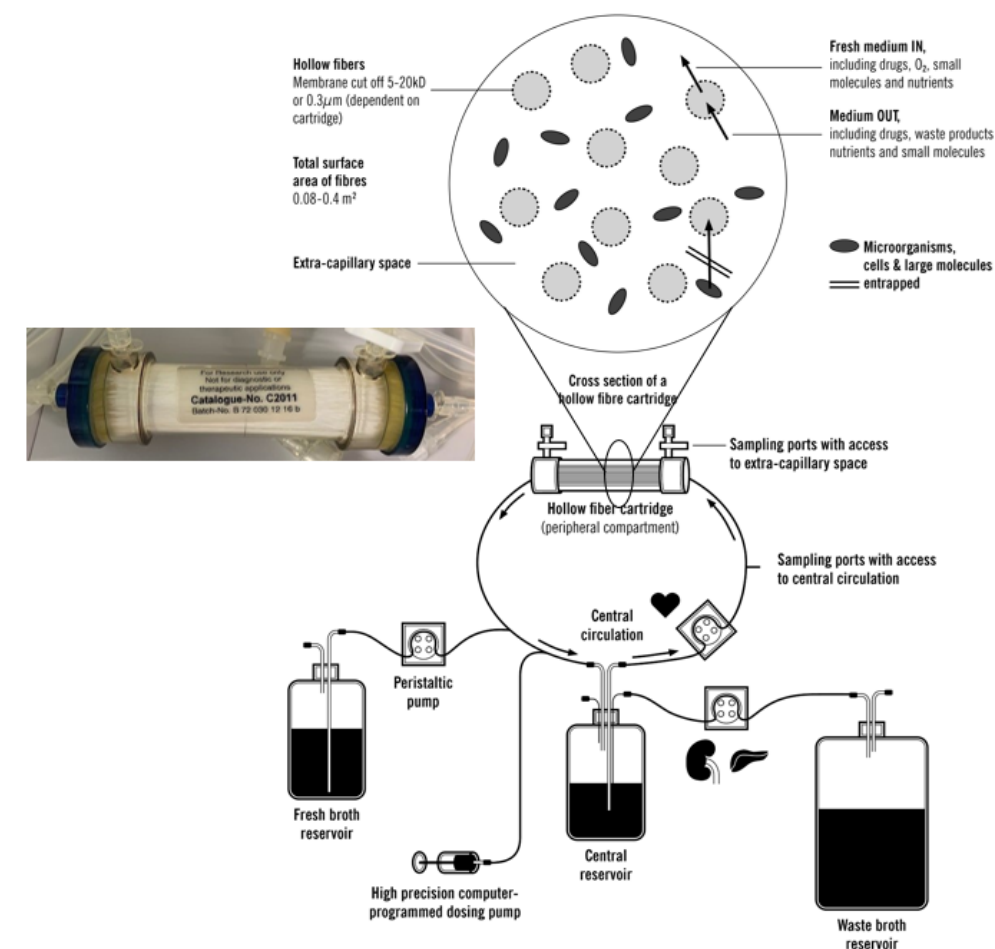
SCY-078 MICs vs DRUG RESISTANT *C. glabrata*

<i>C. glabrata</i> Isolates	Total (N=72)	Anidulafungin Resistant (N=64)	Micafungin Resistant (N=43)	Anidulafungin and Micafungin Resistant (N=41)	Fluconazole Resistant (N=7)
SCY-078 MIC (µg/mL)	MIC ₅₀ = 1 MIC ₉₀ = 1 Range 0.125 - 2	MIC ₅₀ = 1 MIC ₉₀ = 1 Range 0.25 - 2	MIC ₅₀ = 1 MIC ₉₀ = 1 Range 0.25 - 2	MIC ₅₀ = 1 MIC ₉₀ = 1 Range 0.25 - 2	Range 0.25 - 1

Hollow Fibre Infection Model (HFIM)

Understanding the PK/PD relationship

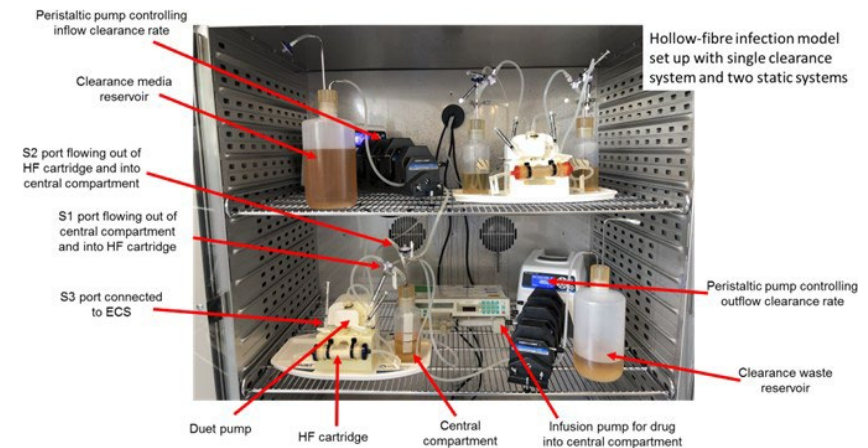
- The Hollow Fibre Infection Model provides a dynamic *in vitro* method of assessing the impact of a time course of drug exposure(s) on a cell or combination of cells
- The most capable *in vitro* model for evaluating PK/PD indices and optimising dosing regimens for bacterial or fungal killing and suppressing the amplification of drug resistant mutant subpopulations
- Two principal compartments:
 - Central reservoir and associated tubing which constitutes a circulating system
 - A hollow fibre cartridge containing thousands of permeable capillaries, sealed at both ends within a tubular polycarbonate shell. The extracapillary space (ECS) outside the fibres but within the cartridge housing contains the target organism.
- Drug-infused growth medium in the central reservoir is continuously pumped to the hollow fibre cartridge, rapidly passes through the capillaries and equilibrates with medium in ECS. Nutrients and oxygen are continuously refreshed, waste products are removed
- Using infusion and clearance pumps any PK profile (animal, human) including drug combinations can be simulated
- System can also be applied to determine resistance development
- **HFIM study designs can be tailored to specific requirements or bespoke client protocols**



Hollow Fibre Infection Model

Capabilities, capacity and experience at Evotec

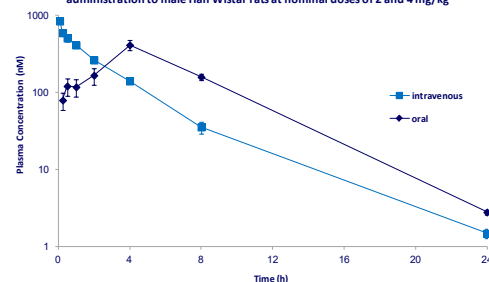
- Experience at Evotec with HFIM for:
 - *Mycobacterium tuberculosis* H37Ra
 - Bacteria: *Acinetobacter baumannii*, *Klebsiella pneumoniae*, *Escherichia coli*, *Pseudomonas aeruginosa*, ...
 - Fungi: *Aspergillus fumigatus*
- Containment level 2 laboratory space dedicated to running HFIM studies
- Up to 34 hollow fibre cartridges¹⁾ can be operated in parallel for different organisms, using variable drug infusion and clearance rates, with study durations ranging from hours to 6 weeks
- Dedicated team of scientists trained to operate the system
- Full range of microbiology support including alternative endpoints, whole-genome sequencing and bioinformatics services to support resistance characterisation studies, and mechanism of action determination
- Bioanalysis facilities for LC-MS analysis of PK samples
- A dedicated PK/PD modelling team
 - Experimental design for single- and multiple-drug experiments
 - Generation of infusion parameters (duration, rates, frequency) to reproduce specific PK profile
 - Mathematical models for interpretation of pharmacokinetic and pharmacodynamic data



Pharmacokinetic profiling in anti-infective drug discovery

From *in vivo* characterisation to bioanalysis and biomarker assessment

Compound XXX plasma concentrations following intravenous and oral administration to male Han Wistar rats at nominal doses of 2 and 4 mg/kg



PK Parameter	Intravenous	Oral
Dose (mg/Kg)	1.83 ± 0.04	4.07 ± 0.02
C ₀ / C _{max} (ng/mL)	492 ± 25	206 ± 80
T _{max} (h)	-	4
V _{ss} (L/Kg)	6.9 ± 0.3	-
CL (mL/min/Kg)	34.6 ± 0.3	-
Liver Blood Flow (%)	48.1 ± 0.5	-
AUC _{inf} (ng.hr/mL)	880 ± 28	1248 ± 380
Bioavailability (%)	-	64 ± 0.2

- **Standard and specialised PK studies in multiple rodent species:**
 - Administration routes; intravenous (prolonged infusion), per oral, intraperitoneal, subcutaneous, intra cerebrospinal, intramuscular, pulmonary (nebulized, aerosolized), iPrecio & Alzet pumps
- **Sampling types:** jugular vein cannulation, cardiac puncture, tail vein microsampling
- **Matrices:** blood, plasma, CSF, BALF, whole tissues, bile, urine and faeces
- PK in infected animals assessing impact of disease state on drug exposure
- Data directly translated into efficacy studies to optimise outcomes
- PK experiments designed to accompany PK/PD profiling programmes

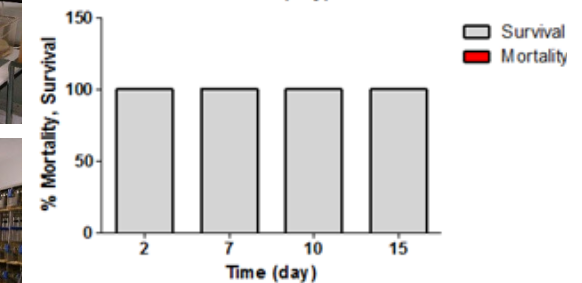
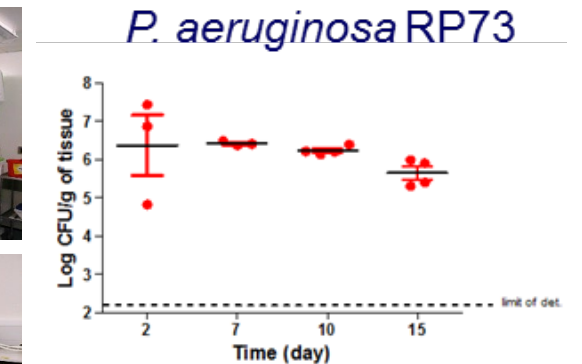
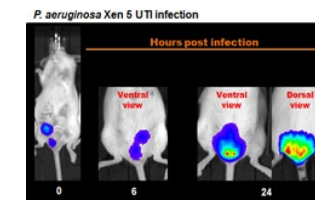


- **State-of-the-art bioanalytics**
 - Highly sensitive biophysical methods including LC-MSMS
 - Bioassay techniques: tracking biological activity
- **Biomarker quantification:** pathogen/infection specific and host response

Comprehensive translational microbiology platform

Integrating *in vivo* pharmacology and DMPK

- State-of-the-art animal facilities (**BSL 2 & 3**) to house rodents, immunocompromised animals, and multiple backgrounds (incl. dogs and monkeys AAALAC accredited)
- Target validation, tolerability studies, DMPK studies, PK/PD studies, *in vivo* MoA studies, efficacy screening
- Multiple hosts and fully validated models of infection: Rat, mouse, guinea pig, hamster, cotton rat, rabbit
- Multiple routes of infection include: lung, thigh, blood (sepsis), skin, urinary tract, GI tract, vagina, bone
- Full range of endpoints: pathogen burden (culture, qPCR, biomarkers), host response
- Real time imaging of microbes during infection: IVIS, MRI, CAT, PET
- New model development programme
- Invertebrate screening model for bacteria & fungi (wax moth larva rapid screening models)

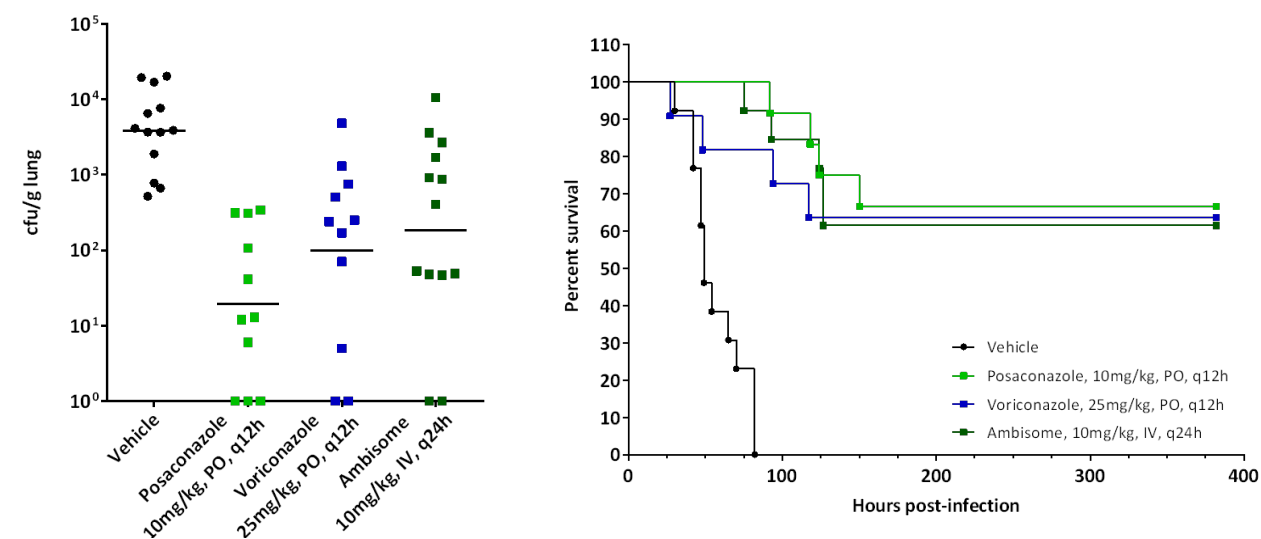


Breadth of *in vivo* models of fungal infection

Summary and *Aspergillus* lung infection as example

Model	Pathogen	Animal species	Immune system
Acute Sepsis	<i>A. fumigatus</i> , <i>A. flavus</i> , <i>A. terreus</i>	Mouse	neutropenic
	<i>C. albicans</i> , <i>C. glabrata</i> , <i>C. tropicalis</i>	Mouse	neutropenic
	<i>C. auris</i>	Mouse	neutropenic
	<i>C. neoformans</i>	Mouse	neutropenic
Chronic Sepsis	<i>C. albicans</i>	Mouse	competent
Brain	<i>C. neoformans</i>	Mouse	neutropenic
	<i>C. albicans</i>	Mouse	neutropenic
GI tract	<i>C. albicans</i>	Mouse	competent
	<i>C. albicans</i>	Rat	competent
Skin	<i>M. pachydermatis</i>	Guinea pig	competent
	<i>T. mentagrophytes</i>	Guinea pig	competent
Vaginal	<i>C. albicans</i>	Mouse	competent
	<i>C. albicans</i>	Rat	competent
Lung	<i>A. fumigatus</i> , <i>A. flavus</i> , <i>A. terreus</i>	Mouse	neutropenic
Lung aerosolised	<i>A. fumigatus</i>	Mouse	neutropenic
Oropharyngeal	<i>C. albicans</i>	Mouse	neutropenic

Neutropenic murine model of *A. fumigatus* lung infection. Survival and lung burden as endpoints:

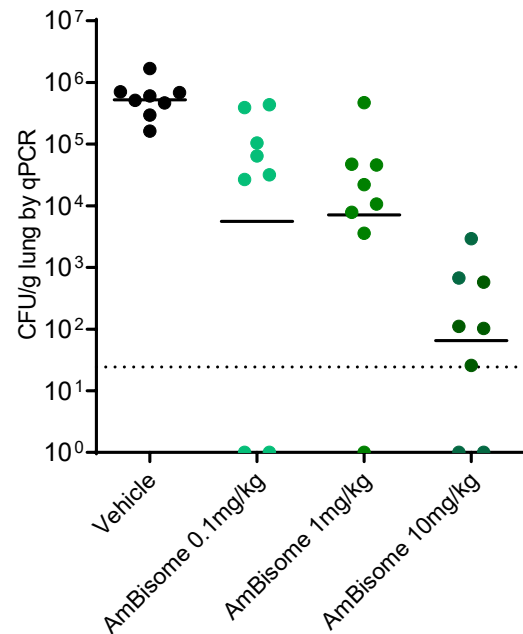


Additional endpoints: cytokines, cellular response, galactomannan, β glucan, histopathology

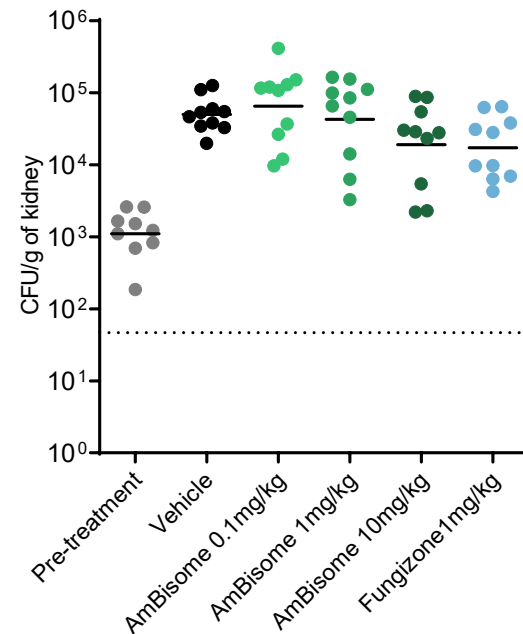
In vivo pharmacology – fungal infection models

Example Data^{2, 3}

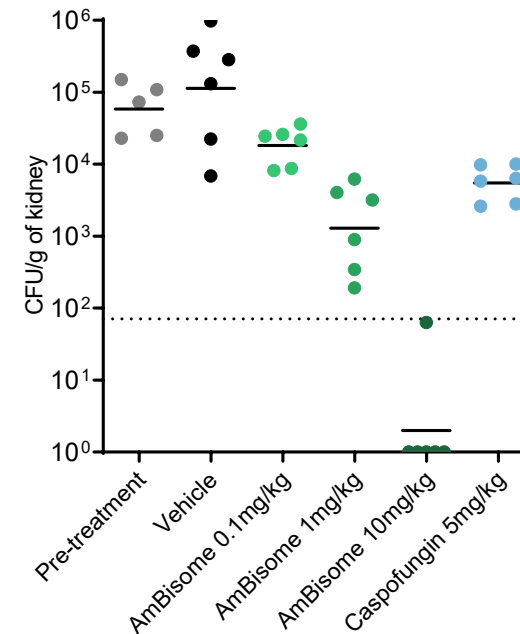
***A. fumigatus* ATCC204305 IPA¹⁾
Lung Burden**



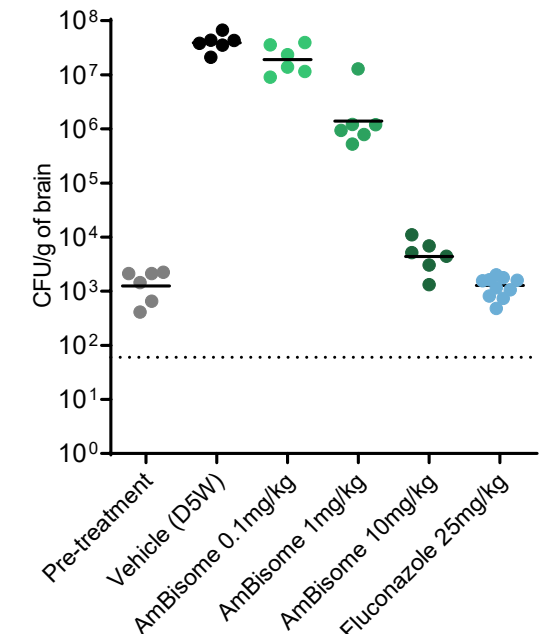
***A. terreus* AT49 Sepsis
Kidney Burden**



***C. glabrata* ATCC2001 Sepsis
Kidney Burden**



***C. neoformans* HA99 Sepsis
Brain Burden**



¹⁾ IPA= Invasive pulmonary *Aspergillosis*, preferred measure of burden for IPA model is qPCR due to known difficulties recovering *Aspergillus* from lung tissues using standard microbiological culture

²⁾ Extended duration models are available to determine survival

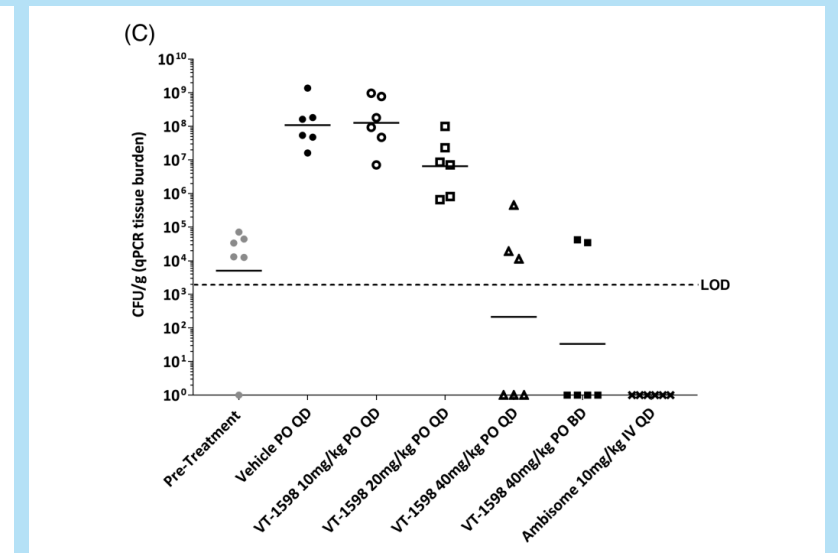
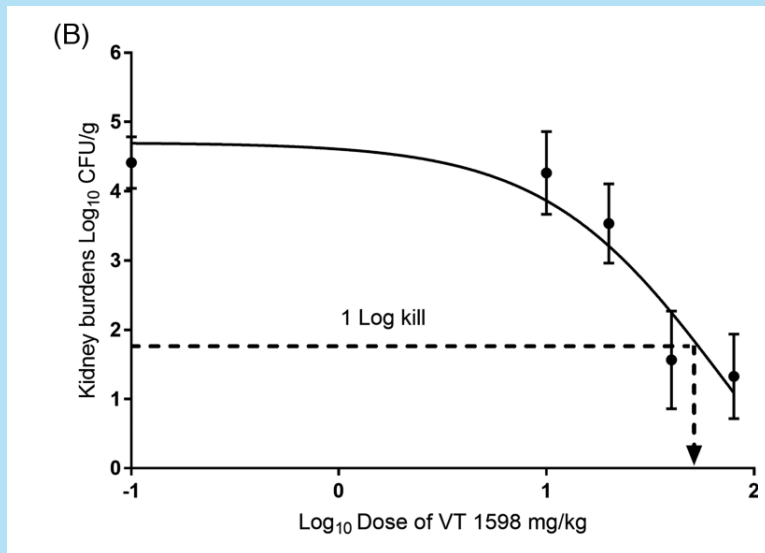
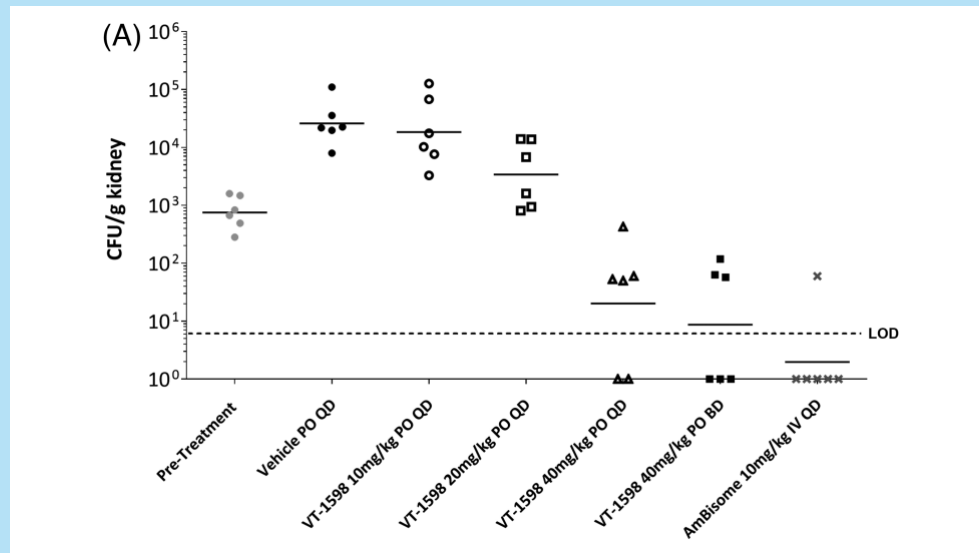
³⁾ Additional types of models including vaginal and oral candidiasis, gastrointestinal tract infection and dermatophyte skin infection models are also available

Aspergillosis model

Case study

VT-1598 dose-dependent reductions in fungal burdens in a neutropenic mouse acute model of disseminated invasive aspergillosis using *Aspergillus fumigatus* ATCC 204305 to infect

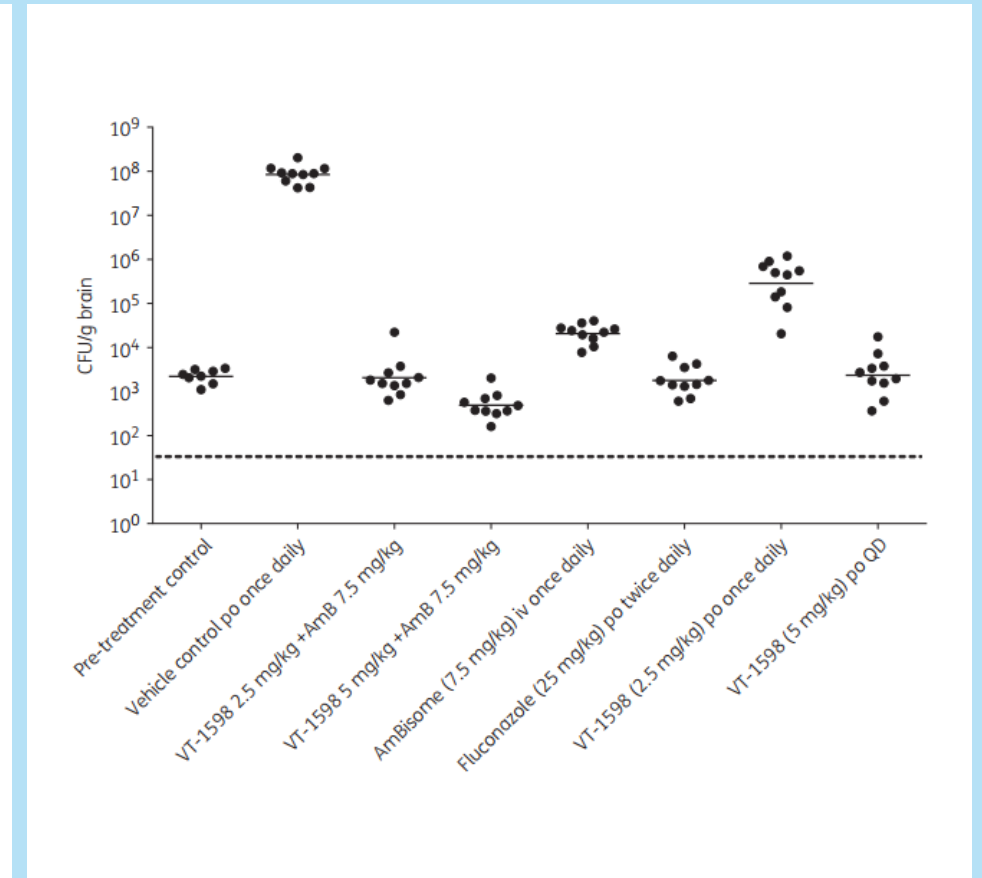
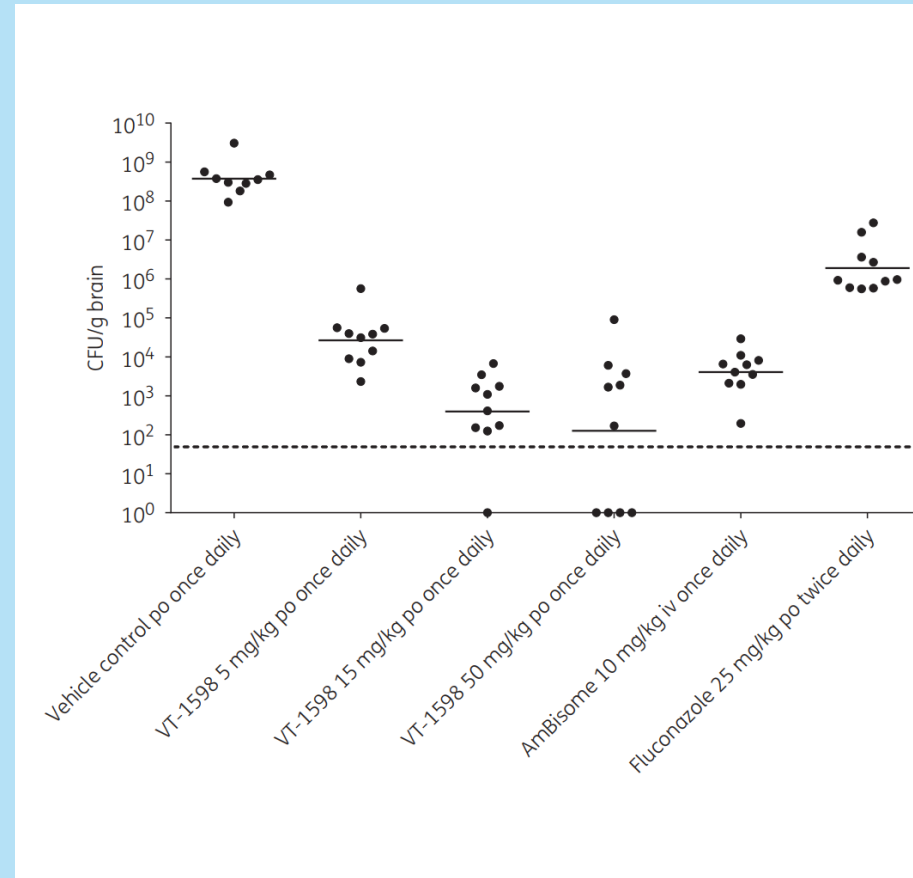
- A. Fungal burdens were determined by quantitative culture of kidney samples collected 1 day after the last treatment
- B. Kidney burden/dose response relationship to determine 1-log killing dose (i.e., the dose that would reduce fungal burden prior to treatment by 1-log)
- C. Fungal burdens were determined by measuring fungal DNA by qPCR in kidney samples collected 1 day after the last treatment. For each dose group shown in panels A and B, solid bar within each data set represents mean value. Dashed lines represent limit of detection (LOD).



Cryptococcal meningitis model

Case study

- VT-1598 maintains dose-dependent reduction in brain fungal burden in treating murine cryptococcal meningitis after a 6 day drug washout
- VT-1598/AmBisome combination increases antifungal efficacy of both monotherapies in treating murine cryptococcal meningitis
- Treatment began 1 day after inoculation of *C. neoformans* H99 and lasted for 14 days, with brain samples collected 6 days after the last dose



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bioRxiv preprint doi: <https://doi.org/10.1101/151111>; this version posted May 10, 2017. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

SCY-078 Demonstrates Significant Antifungal Activity in a Murine Model of Invasive Aspergillosis

Katlyna Borrero-Escota¹, Stephen Barst¹, David Angulo¹, Christina Carrumiers¹, Kirsty Holden¹, Peter Warrim¹, SCYNEXIS, Inc. USA, Twotree (UK)

SCYNEXIS

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Jersey City, New Jersey 07310

BACKGROUND

Ascomycetes are the most common anti-fungal agents for the treatment of Aspergillus infections. Echinoscinans have demonstrated utility in Aspergillus infections, but are limited in use due to a lack of oral bioavailability. SCY-078 is a novel, oral and intravenous (IV), itraconazole-like, echinoscinan synthase inhibitor with activity against Aspergillus and Candida, currently in clinical development for the treatment of invasive fungal infections. This study was conducted to evaluate the *in vivo* antifungal activity of SCY-078 in a murine model of invasive aspergillosis (IA).

METHODS

The *in vivo* activity of SCY-078 was assessed against wild type (WT) and azole-resistant (R34, 1989) A. fumigatus strains in neutropenic C57BL/6 mice.

- Five groups of mice (6/group) were infected IV in the lateral tail.
- Antifungal therapy was initiated 5 hours post infection and maintained for 7 days.
- SCY-078 was administered orally as a loading dose of 15 or 20 mg/kg followed by BID maintenance doses of 7.5 or 10 mg/kg, respectively.
- Caspofungin (CSP) and amphotericin B (AMB) were administered BID by intraperitoneal injection (IP) at doses of 5 mg/kg and 10 mg/kg, respectively.

Endpoints:

- Primary survival at day 14
- Secondary: changes in fungal kidney burden and serum galactomannan index (GMI; Pharmacokinetic analysis was conducted on blood samples at Day 7.

RESULTS

SCY-078 was well-tolerated at all doses. Survival with SCY-078 at 7.5 mg/kg/day and 10 mg/kg/day BID significantly increased mean survival in all strains (P < 0.003). SCY-078 also resulted in significant reductions in fungal kidney burden (P < 0.02) and serum GMI levels (P < 0.005) in all strains. Primary and secondary efficacy endpoints were also met in the groups treated with IP administration of CSP or AMB. Plasma levels of SCY-078 ranged from ~15 to 20 μM/h² (AUC₀₋₂₄) with C_{max} ranging from ~1 to 1.6 μg/ml, for the two dose groups.

Survival Following Treatment of Disseminated A. fumigatus (WT) Infection with Various Anti-Fungal Agents

Day	AMB	CSP	SCY-078 7.5	SCY-078 10
0	100	100	100	100
2	100	100	100	100
4	100	100	100	100
6	100	100	100	100
8	100	100	100	100
10	100	100	100	100
12	100	100	100	100
14	100	100	100	100

Mean Kidney Burden of A. fumigatus (WT) Following Treatment with Various Anti-Fungal Agents

Day	AMB	CSP	SCY-078 7.5	SCY-078 10
0	100	100	100	100
2	100	100	100	100
4	100	100	100	100
6	100	100	100	100
8	100	100	100	100
10	100	100	100	100
12	100	100	100	100
14	100	100	100	100

Survival Following Treatment of Disseminated A. fumigatus (azole-resistant) Infection with Various Anti-Fungal Agents

Day	AMB	CSP	SCY-078 7.5	SCY-078 10
0	100	100	100	100
2	100	100	100	100
4	100	100	100	100
6	100	100	100	100
8	100	100	100	100
10	100	100	100	100
12	100	100	100	100
14	100	100	100	100

Mean Kidney Burden of A. fumigatus (azole-resistant) Following Treatment with Various Anti-Fungal Agents

Day	AMB	CSP	SCY-078 7.5	SCY-078 10
0	100	100	100	100
2	100	100	100	100
4	100	100	100	100
6	100	100	100	100
8	100	100	100	100
10	100	100	100	100
12	100	100	100	100
14	100	100	100	100

CONCLUSION

SCY-078 demonstrated potent activity against WT and azole-resistant strains of A. fumigatus in a murine model of invasive aspergillosis. The exposure needed to achieve efficacy is in line with efficacious exposures reported in the invasive candidiasis models. These results support further development of SCY-078 as an oral treatment for IA infections.

For additional information, contact us at info@scynexis.com

Antifungal Activity of Novamycin® (NP339) *in vivo* in Respiratory Models of Fungal Infection

NovaBiotics
TAKING NATURE'S CUE TO ANTIFUNGALS

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Pulmonary infections caused by fungi (including *Aspergillus* spp. and *Exophiala* spp.) continue to pose a significant risk to particular patient groups including immunocompromised individuals and those with cystic fibrosis, and there remains an urgent clinical need for new, improved therapies to combat these infections. The incidence of lung pathogen(s) demonstrating resistance, or insensitivity to current antifungal therapies is becoming increasingly common, and poses a significant problem to healthcare providers due to the negative outcomes for these patients. Novamycin® (NP339) has previously been demonstrated *in vitro* to be a rapidly acting fungicidal peptide effective against a broad spectrum of pathogenic fungal species, including, but not exclusively *Aspergillus* spp. and *Exophiala* spp. (Poster P289). Novamycin® (NP339) has been formulated for direct delivery into the lung in aerosolised form, and is intended as a monotherapy or to be applied in combination with existing standard of care antifungals to tackle clinically challenging respiratory fungal infections.

Methods

The previously demonstrated *in vitro* efficacy of Novamycin® (NP339) against *Aspergillus* spp. and *Exophiala* spp. The activity of rebused Novamycin® (NP339), as a monotherapy (rebused twice daily (BD) at 1-10 mg/mL for 10 min) and in combination with intravenous and oral azoles and amphotericin B (AmBisome), was assessed in preliminary *in vivo* experiments utilizing established murine models of invasive pulmonary aspergillosis. Efficacy was determined by measuring the survival, weight and temperature for up to 6 days post treatment of rebused Novamycin® (NP339) alone or as an adjunct to systemic standard of care therapies.

Fig. 1. Multivariate Kaplan-Meier (KM) plots with a combination of demographic factors and a combination of clinical factors.

a) Age
 18-44
 45-64
 65-74

b) Sex
 Male
 Female

c) CD4 count
 0-199
 200-350
 351-500

d) HIV treatment
 Yes
 No

e) Antifungal treatment
 Yes
 No

f) Antiretroviral treatment
 Yes
 No

Conclusions

Novel findings in combination with zidovudine, azidothymidine (AZT) and ddI (zalcitabine) in the 90s and 140n clinically relevant in vivo rodent models of *Agrobacterium* spp. lung infection demonstrated a greater survival as well as better indicators of health such as weight and temperature compared to the monotherapy. This preliminary data suggest that the combination of Novaport® (NP303) with systemic antifungals may be a useful strategy in addressing disseminated disease.



#RESEARCHNEVERSTOPS

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