

BioVersys

Switching Off Bacterial Resistance

BIO 2016

Global Workshop for Novel Anti- Infectives

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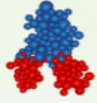
TRIC therapeutics for antimicrobial therapy

Transcription Regulator Inhibitory Compounds

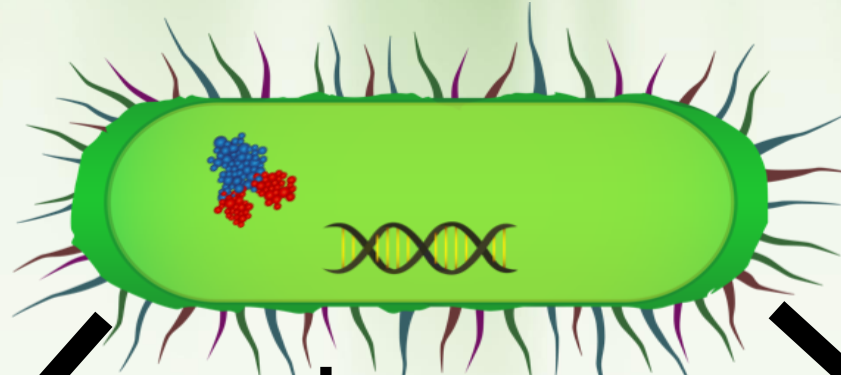
BIOVERSYS

SWITCHING OFF BACTERIAL RESISTANCE

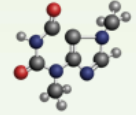
Transcription
Regulator



DNA

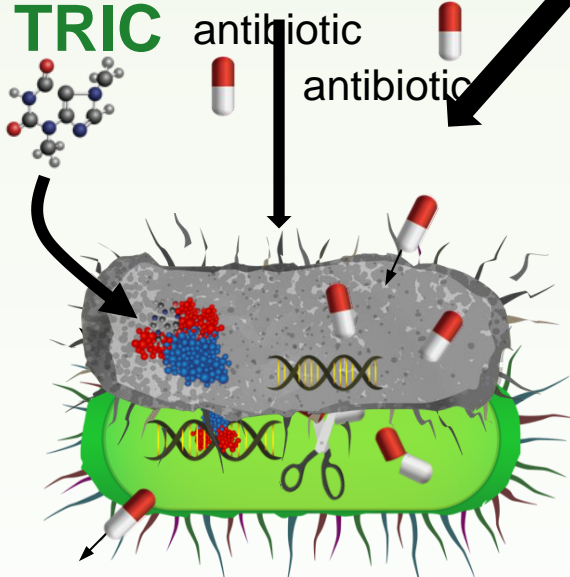


TRIC



TRIC

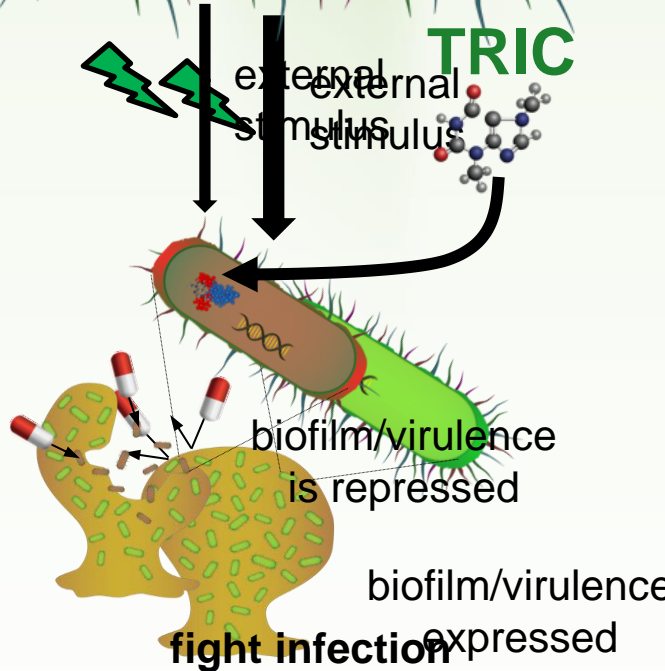
antibiotic
antibiotic



resistance mechanism OFF
Resistance mechanisms
antibiotic kills again
ON

external
stimulus

TRIC

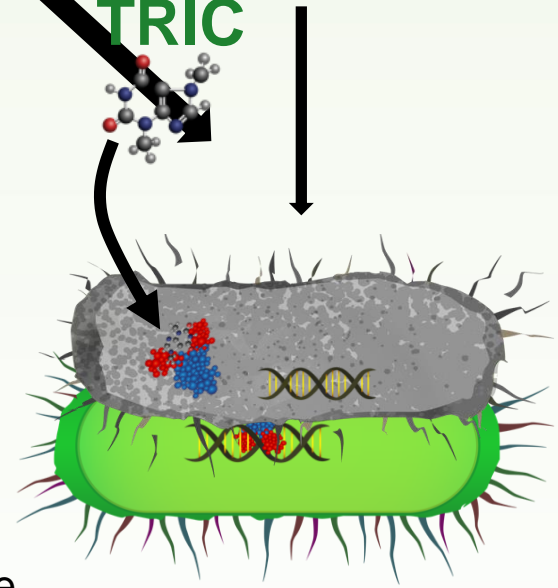


biofilm/virulence
is repressed

fight infection

biofilm/virulence
expressed

TRIC

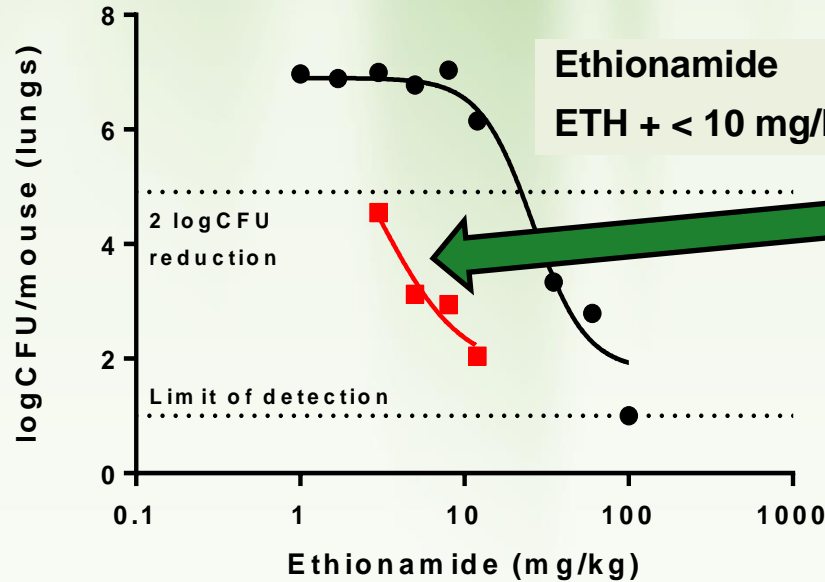


Essential metabolic
function
TRIC kills

Resistance reversed + shift of treatment regimen

Resistance fully reverted

| MDR Clinical Strain ID | MIC ETH | MIC ETH + TRIC |
|------------------------|---------|----------------|
| B1602 | 256 | 0,5 |
| B1304 | 256 | 0,5 |
| B1196 | 256 | 0,25 |
| B1166 | 64 | 0,25 |
| B1150 | 64 | 0,05 |
| B1099 | 64 | 0,25 |
| B1004 | 32 | 0,25 |
| B1001 | 32 | 0,05 |
| B0775 | 32 | 0,025 |
| B0467 | 32 | 0,5 |
| B0391 | 16 | 0,05 |
| B0383 | 16 | 0,1 |
| B0089 | 8 | 0,5 |
| B0057 | 8 | 0,25 |
| L1094 | 2 | 0,05 |
| H37Rv | 1 | 0,05 |



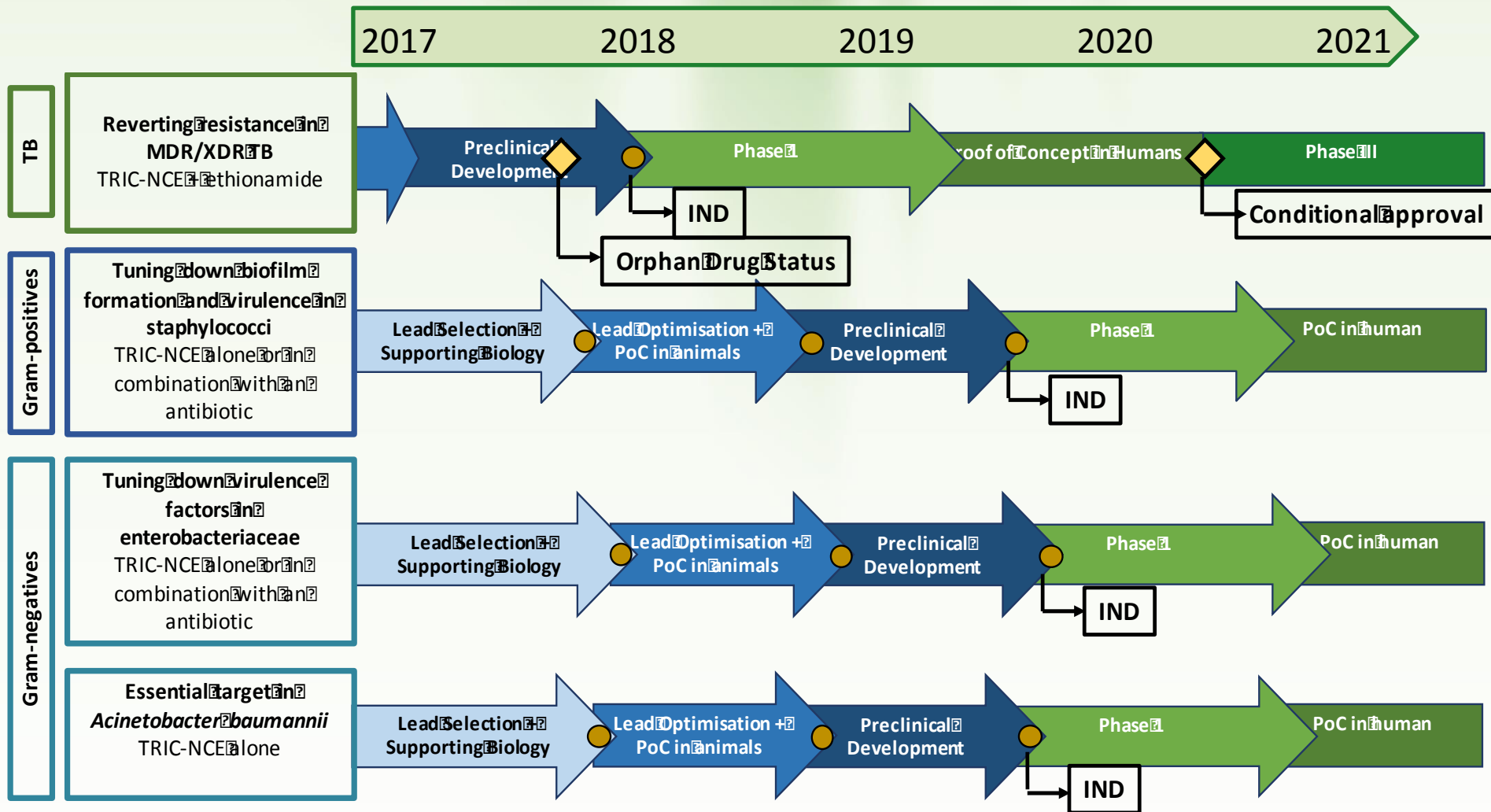
- 7 x less Ethionamide needed
- Increasing drug exposure might result in shortened treatment time

- Lead properties:**
- nM efficacy
 - 100% of isolates susceptible
 - Oral bioavailability
 - Good pK profile
 - Clean tox profile
 - Efficacy in mice: <10mg/kg

ETH: ethionamide
MIC: minimal inhibitory concentration
MDR: multi-drug resistant

Work performed in collaboration with Profs: Baulard, Deprez and Willand from the Institut Pasteur Lille and GSK

Pipeline 2016 – onwards





Thank you for your attention
and

Please contact us for further information

www.bioversys.com

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