Confronting the clinical relevance of biocide induced antibiotic resistance

Fact Sheet

Project information

BIOHYPO

Grant agreement ID: 227258

Project website

Status

Closed project

Start date

1 June 2009

End date

30 November 2012

Funded under:

FP7-KBBE

Overall budget:

€ 4 396 589

EU contribution

€ 2 999 705

Coordinated by:

UNIVERSITA DEGLI STUDI DI SIENA

Italy

Objective

Biocides have been in use for hundreds of years for antisepsis, disinfection and preservation. Despite this widespread and ever increasing use most bacterial and fungal species remain susceptible to biocides. The dramatic increase and spread of resistance to antibiotics linked to reports of co- and cross-resistance between antibiotics and biocides raised speculations on potential hazard of biocide use. The overarching question which BIOHYPO is aimed to address is: has the use of biocides contributed to the development and spread of clinically significant antibiotic resistance in human pathogens? Core of BIOHYPO are a high throughput screening approach on collections of thousands of well characterized microorganisms and an interactive web based data analysis platform. Phenotypic screening for reduced susceptibility to biocides, detection of novel resistance genes and mobile elements, and screening for their molecular epidemiology and metagenomics will be accompanied by methodological innovation for testing, risk evaluation and registration of biocides. Altogether BIOHYPO aims to provide solid data and analysis to direct future issuing of guidelines for safe environmental, medical and industrial use of biocides.
Field of Science

/medical and health sciences/basic medicine/pharmacology and pharmacy/drug resistance/antibiotic resistance

/medical and health sciences/health sciences/epidemiology

/natural sciences/computer and information sciences/data science/data analysis

Programme(s)

FP7-KBBE - Specific Programme "Cooperation": Food, Agriculture and Biotechnology

Topic(s)

KBBE-2008-2-4-02 - Biocides and antibiotic resistance

Call for proposal

FP7-KBBE-2008-2B

See other projects for this call

Funding Scheme

CP-FP - Small or medium-scale focused research project

Coordinator

UNIVERSITA DEGLI STUDI DI SIENA
Address
Via Banchi Di Sotto 55
53100 Siena
Italy

Activity type
Higher or Secondary Education Establishments

EU Contribution
€ 473 856

Website
Contact the organisation

Administrative Contact
Silvano Focardi (Prof.)

Participants (12)
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<tr>
<th>Organisation</th>
<th>Address</th>
<th>EU Contribution</th>
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<td>QUOTIENT BIORESEARCH</td>
<td>Newmarket Road, Cb7 5ww Fordham</td>
<td>€ 280 200</td>
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<tr>
<td>ISTITUTO SUPERIORE DI SANITA</td>
<td>Viale Regina Elena 299, 00161 Roma</td>
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<td>INESC ID - INSTITUTO DE ENGENHARIADE SISTEMAS E COMPUTADORES, INVESTIGACAO E DESENVOLVIMENTO EM LISBOA</td>
<td>Rua Alves Redol 9, 1000 029 Lisboa</td>
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<td>Kaiser-Wilhelm-Strasse 133 12247 Berlin</td>
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<td>BIOLAB ESPAÑOLA DE ANÁLISIS E INVESTIGACIÓN SL</td>
<td>€ 223 600</td>
<td>Parc Cientific De Barcelona, Calle Baldiri Reixac 4-6 08028 Barcelona</td>
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Administrative Contact
- Stephen Leib (Prof.)
- Luciana Giovannetti (Prof.)
- Marina Elli (Dr.)

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