



COST Action CA15114  
COST Association

COST Grant System  
28 October 2016

## Action CA15114 Fact Sheet

### Title

Anti-Microbial Coating Innovations to prevent infectious diseases (AMICI)

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### Details

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### Objectives

Infections and infectious diseases are a continuous threat to human health. According to the European Centre for Disease prevention and Control (ECDC), over 4 million people are estimated to acquire a HealthCare Associated Infection (HCAI). The AMICI-consortium is convinced that new methods, additional or alternatively to an appropriate use of disinfectants and antibiotics, are required to reduce microbial activity, associated infections and the increase of Antimicrobial Resistance. A potential and promising weapon against bacterial growth and possibly the development of multi-drug resistant bacteria has been found in AntiMicrobial (nano)-Coatings (AMC). In coatings fortified with an active ingredient, the ingredient is responsible for the elimination of the micro-organisms. So far, little is known about the effectiveness of AMC application on surfaces, on the prevention of spreading infections and their impact on induction of multi-drug resistant bacteria in healthcare (e.g. hospitals, nursery homes). The presence of active substances in AMC may promote/induce resistance mechanisms which need to be understood. A balanced risk-benefit analysis of widespread application of AMC is needed to guide a Safe-by-Design development and introduction in complicated chains with high demand for compliance such as healthcare. AMICI brings together stakeholders from different countries and disciplines, including knowledge institutes, producers and processors of antimicrobial coatings, and organizations involved in the compliance with international standards on hygiene. The central aim is to evaluate the impact of (introducing) AMC in healthcare on the spread of infections and on the efficacy in fighting HCAI and bacterial resistance to current antibiotics.



Parties							
Country	Date	Country	Date	Country	Date	Country	Date
Belgium	21/12/2015	Bulgaria	05/01/2016	Croatia	20/04/2016	Czech Republic	13/09/2016
Denmark	07/01/2016	Estonia	18/11/2015	Finland	24/11/2015	France	06/01/2016
Germany	24/11/2015	Greece	04/12/2015	Ireland	21/12/2015	Israel	09/12/2015
Italy	26/01/2016	Latvia	28/04/2016	Lithuania	05/01/2016	Malta	28/11/2015
Netherlands	26/11/2015	Norway	12/09/2016	Poland	12/02/2016	Portugal	22/01/2016
Romania	10/12/2015	Serbia	04/01/2016	Slovenia	11/01/2016	Spain	13/01/2016
Sweden	06/10/2016	Switzerland	21/01/2016	Turkey	20/02/2016	United Kingdom	17/11/2015
fYR Macedonia	22/12/2015						

Total: 29

Intentions to accept the MoU							
Country	Date	Country	Date	Country	Date	Country	Date

Total: 0

Working Groups
None

Website
None

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