



## KEY TECHNOLOGIES

# The Fight against the Spread of Nosocomial Infections

**Key words:** *organisation and control of building-related infectious hazards, strategy for the fight against infections in the operating area, hygiene and safety in biological analysis laboratories, control of the hazards in protected enclosures, bio-cleaning of premises, facility logistics and maintenance, air quality control in protected sectors, transfer process modelling, operating area, OR*

Nosocomial infections are caused and acquired by the people located at the same hospital venue. The spread is due to the airborne dissemination of micro-organisms, involving microbiological factors and the technical facilities (ventilation, fluid networks, arrangement and set-up, and so on). The fight against the spread of nosocomial infections requires a range of scientific (knowledge of the micro-organisms) and technical (fluid circuit control, flow display equipment, work protocols for humans, and so on) skills and expertise.

## HUMAN POTENTIAL

► A scientific team: LME (Laboratoire de Microbiologie de l'Environnement, laboratory of environmental microbiology).

► A technical team, EMA industrialists and the training-testing centre

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## METHODS

The methods, skills and expertise draw on the experience acquired at the industrial (nuclear, microelectronic, and food-processing) facilities, and transpose it to the hospital environment. The team of industrialists at the EMA group are working with healthcare professionals on the improvements required for a better control of contamination in operating areas. The LME and the LTP also contribute their expertise through 7 people.

## SPECIAL EQUIPMENTS

Technical fine-tuning can be done at the training school

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## SUPPORT TO BUSINESS SET-UP PROJECTS IN BASSE NORMANDIE

The Basse Normandie Region has rolled out all its resources to support business projects in the following areas:

- ▶ General funding
- ▶ Business project support
- ▶ Training programs
- ▶ Corporate user services at operations site
- ▶ Technology transfer to companies: [www.gravir.org](http://www.gravir.org) and [www.crittbn.com](http://www.crittbn.com)

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