

# SANITAS

screening assays for new bacterial inhibitors  
based on targets active in septation  
QLK3-2000-00079

new antibiotics

screening assays

new targets

**bacterial division proteins  
as targets for new antibiotics**

STUDIO MV



MINISTERIO  
DE CIENCIA  
Y TECNOLOGÍA



# SANITAS: Screening Assays for New Bacterial Inhibitors Based on Targets Active in Septation

**We are designing and implementing assays to screen for new antibiotics. Blocking cell division undermines a crucial stage in the development of infection, *i.e.* the propagation of the microbe. Therefore we use molecules that are essential for the formation of the division septum as screening targets.**

Only a handful of the molecules that participate in bacterial proliferation are conserved in most pathogenic bacteria. We focus on essential and phylogenetically conserved bacterial proteins as FtsA.

We expect to obtain compounds to inhibit bacterial proliferation by blocking cell division. These compounds will help to combat infectious disease and to overcome the widespread resistance to antibiotics common among pathogenic bacteria.

## coordinator

**Miguel Vicente** Centro Nacional de Biotecnología. CSIC  
Madrid. Spain

## participants

**Alfonso Valencia** Centro Nacional de Biotecnología. CSIC  
Madrid. Spain

**John Hodgson** Aventis Pharma  
Romainville. France

**Jan Löwe** Medical Research Council  
Cambridge. United Kingdom

**Joachim-Volker Höltje** Max-Planck-Institut für Entwicklungsbiologie.  
Tübingen. Germany

**Orietta Massidda** Università degli Studi di Cagliari  
Italy

**Jean-Marie Ruyschaert** Université Libre de Bruxelles  
Belgium

Contract type: RTD  
Maximum Community contribution: 1,453,932 EURO  
Estimated eligible costs: 2,445,454 EURO  
Starting date: 1 March 2001  
Finishing date: 29 February 2004  
Number of persons/month (research): 435  
Number of persons/month (coordination): 30

**web site: <http://www.cnb.uam.es/~mvicente/SANITAS.html>**