

CONTENIDO

10 **EXECUTIVE SUMMARY**

CHALLENGES IN BIOMEDICINE AND HEALTH

Topic Coordinators Mario Delgado and Maria Moros

18 **CHALLENGE 1**

CANCER

Topic Coordinators Raúl V. Durán, Xosé R. Bustelo and M. Ángela Nieto

44 **CHALLENGE 2**

SOLUTIONS FOR INFECTIOUS DISEASES

Topic Coordinators Daniel López

64 **CHALLENGE 3**

DRUG RESISTANCE IN INFECTIOUS DISEASES

Topic Coordinators Francisco Gamarro and María del Pilar Garcillán

90 **CHALLENGE 4**

RARE DISEASES

Topic Coordinators Isabel Varela Nieto and Belén Pérez

108 **CHALLENGE 5**

FOOD ALLERGY

Topic Coordinators Elena Molina

138 **CHALLENGE 6**

PAIN AND SUFFERING

Topic Coordinators Javier Moscoso

156 **CHALLENGE 7**

ADVANCED THERAPIES

Topic Coordinators Daniel Bachiller and María Concepción Serrano

176 **CHALLENGE 8**

NEW METHODS FOR DIAGNOSTIC TOOLS AND PREVENTION

Topic Coordinators Susana Marcos and Alberto de Castro

190 **CHALLENGE 9**

NANOMEDICINE

Topic Coordinators Fernando Herranz

208 **CHALLENGE 10**

SOCIO-CULTURAL, HISTORICAL, POLITICAL AND ECONOMIC
DIMENSIONS OF HEALTH AND MEDICINE

Topic Coordinators Pablo D'Este