



Avian viral disease prevention and control with plant vaccines for the Mediterranean area

★ **ENEA**
Italian National Agency for New Technologies,
Energy and Sustainable Economic Development



★ **IZSVe**
Istituto Zooprofilattico Sperimentale delle Venezie
(Italian health authority and research organization for animal health and food safety)



★ **IAV**
Institute of Agronomy and Veterinary Hassan II



★ **INRA-Morocco**
National Institute of Agricultural Research



★ **AGERI**
Agricultural Genetic Engineering Research Institute



aims and activities

Emergence and re-emergence of infectious viral poultry diseases remain an important challenge to both productivity and public health especially in the Mediterranean basin.

The main aim of AVIAMED is to use plants as sustainable low cost biofactories to produce innovative immuno-potentiated subunit vaccines for Newcastle and Infectious Bursal Disease (ND and IBD), enabling the Differentiation of Infected from Vaccinated Animals (DIVA) through appropriately designed diagnostic assays.

AVIAMED will also be aimed to overcome fragmentation of research and barriers to free circulation of knowledge by fostering know how transfer among participants and promoting the foundation in the Mediterranean space of new interdisciplinary scientific collaborations.

- **WP1- Antigen selection and design to improve intrinsic immunogenicity (ideal vaccine)**
Leader: ENEA-Italy; Other participants: IZSVE-Italy; IAV-Morocco
- **WP2- Production of the antigens in plants by transient (*Nicotiana benthamiana*) and stable (*Zea mays*) transformation technologies**
Leader: AGERI-Egypt; Other participants: ENEA-Italy; INRA-Morocco
- **WP3- Evaluation of antigens efficacy in poultry**
Leader: IAV-Morocco; Other Participants: IZSVE-Italy
- **WP4- Development of DIVA strategies and new diagnostic assays**
Leader: IZSVE-Italy; Other participants: ENEA-Italy; IAV- and INRA-Morocco
- **WP5- Project networking activities and dissemination**
Leader: INRA-Morocco; Other participants: all the partners

project

AVIAMED is an European project selected for funding by the ERANET ARIMNET2 consortium that supports collaborative interdisciplinary projects based on complementarities between scientists, disciplines and countries and promotes international collaborations to create research consortia in order to respond appropriately to Mediterranean Agriculture challenges.

AVIAMED is funded by the Ministry of Agriculture and Forestry (MIPAAF) (Italy), by the Ministère de l'Education Nationale, de l'Enseignement Supérieur, de la Formation des Cadres et de la Recherche Scientifique (MESRSFC) (Morocco) and by the Academy of Scientific Research and Technology (ASRT) and the Agricultural Research Center, Ministry of Agriculture and Land Reclamation (ARC) (Egypt).

