



# WILDLIFE EPIDEMIOLOGY AND DISEASE CONTROL

6th edition, 2016-2017

**Infections shared with wildlife** are relevant for public health, economy and conservation. Disease emergence often takes place at the complex human/livestock/wildlife interface. This practical course provides specialized training in epidemiology and wildlife disease control at IREC by the SaBio team, in one of Europe's hotspots for this extraordinary scientific field.

## Contents (selection)

### Themes:

- Current health status of European wildlife: birds – lagomorphs – carnivores – wild boar – ruminants.
- Diagnostics: key techniques and their special challenges in wildlife.
- Ecology of the host-pathogen interaction.
- Epidemiology research: experimental design and sampling techniques.
- Data analysis and epidemiology software.
- Wildlife disease surveillance and wildlife monitoring.
- Options for disease control at the human/livestock/wildlife interface. Contingency plans.

### Examples of current wildlife disease research:

- Bluetongue.
- Pathogenic *E. coli*.
- Tuberculosis.
- Viral diseases & wild boar.
- West Nile and other flavivirus diseases.

### Hands on:

- Field trip to identify disease risk factors and discuss control options.
- Methods for wildlife disease and population monitoring. Laboratory & field tools.
- Necropsies and standardized sampling procedures in birds, lagomorphs, carnivores and ungulates.



**Instituto de Investigación  
en Recursos Cinegéticos**

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#### **Group activities:**

- Exploratory data analysis in descriptive epidemiology: prevalence, CIs, sex by age comparisons.
- Design and discussion of local and national wildlife disease surveillance schemes.
- Research paper comments and discussions.

#### **Faculty**

##### **Directors & academic secretary:**

Dr. Christian Gortázar, Dr. Ursula Höfle, Dr. Joaquín Vicente, IREC, Ciudad Real.

##### **IREC faculty:**

Dr. M<sup>a</sup> Ángeles Risalde, Dr. J. Francisco Ruiz-Fons, Dr. Pelayo Acevedo.

##### **Guest faculty (among others):**

Dr. Ezio Ferroglio, Università degli studi di Torino; Dr. Beatriz Martínez, University of California, Davis; Dr. Maria Cruz Arnal, Universidad de Zaragoza; Dr. Mariana Boadella, Sabiotec S.L.

#### **Practical information:**

Language: English.

Organized by: Universidad de Castilla – La Mancha.

Site: IREC, Ronda de Toledo 12, 13005 Ciudad Real, Spain ([www.uclm.es/IREC](http://www.uclm.es/IREC)).

Timing and fee: 12 ECTS split in two periods: (I) November 7-11, 2016 and (II) March 13-17, 2017; plus field trips and seminars. Fee: 490€. Deadline for application: October 31st, 2016.

Information & inscription: [encarnacion.delgado@uclm.es](mailto:encarnacion.delgado@uclm.es); <http://www.cececfcs.posgrado.uclm.es/default.aspx>

Additional info on SaBio research group: [www.SaBio-IREC.com](http://www.SaBio-IREC.com)

