



Institutional statement on the use of research animals

The Institute of Marine Science of Andalusia (ICMAN-CSIC) has joined the [Agreement on Openness on Animal Research](#), promoted from the Federation of Scientific Societies in Spain (COSCE), with the collaboration of the European Association of Research Animals (EARA), and launched on 20 September 2016.

We are convinced that animal experimentation plays a fundamental role in the discover of the underlying biological mechanisms of disease, and in the developing of medical treatments, but also on the knowledge of the biological processes of animals, which allow improvements of animal production protocols for human consumption. Without research in animals, we would not have most of the medicines, antibiotics, vaccines and surgical techniques that are applied nowadays in human and veterinary medicine, and we would have not advance in a sustainable animal production offering higher quality products.

An important part of the research undertaken at the ICMAN-CSIC aims at contributing to the improvement of human life and wellbeing and is carried out thanks to the use of animals, for example in physiological studies of reproduction and nutrition, and pathologies of fish in order to improve fish production in aquaculture, and also in ecotoxicological research on the effects of pollutants that are present in the marine environment on the living beings.

The welfare of animals used for research purposes is of paramount relevance for the ICMAN-CSIC, and also the strict compliance and respect to the current legislation on the protection of animals used in research and for other scientific purposes, including education. Our aim is to achieve the highest standards in animal welfare, not only from the point of view of our moral responsibility on them, but also because we are convinced we could not achieve research excellence without proper animal welfare. Our experiments with animals follow the legal standard and are assessed by an Ethics Committee on Animal Experimentation that promotes the use of alternative methods, the reduction in the number of animals used and the refinement in the experimental protocols applied. Not a single research project requiring the use of animals could start without the appropriate and required Ethics assessment and the eventual authorization from the competent authorities.

The ICMAN-CSIC also ensures that the personnel involved in animal care and researchers do have the adequate education and training and the required professional skills, and that all resources are provided to properly keep research animals in terms of facilities, husbandry, wellbeing and veterinary care.

The ICMAN-CSIC has promoted/been involved in the following initiatives towards the Openness on Animal Research:

- Café Con Ciencia
 - <https://cafeconciencia.fundaciondescubre.es/programacion/cafe-con-ciencia-semana-de-la-ciencia-2016-35/>



MINISTERIO
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INSTITUTO DE CIENCIAS MARINAS DE ANDALUCIA (ICMAN)

- Open Doors Day
 - <https://semanadelaciencia.fundaciondescubre.es/actividad/jornada-de-puertas-abiertas-en-el-icman/>