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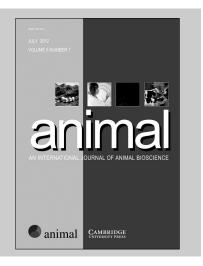
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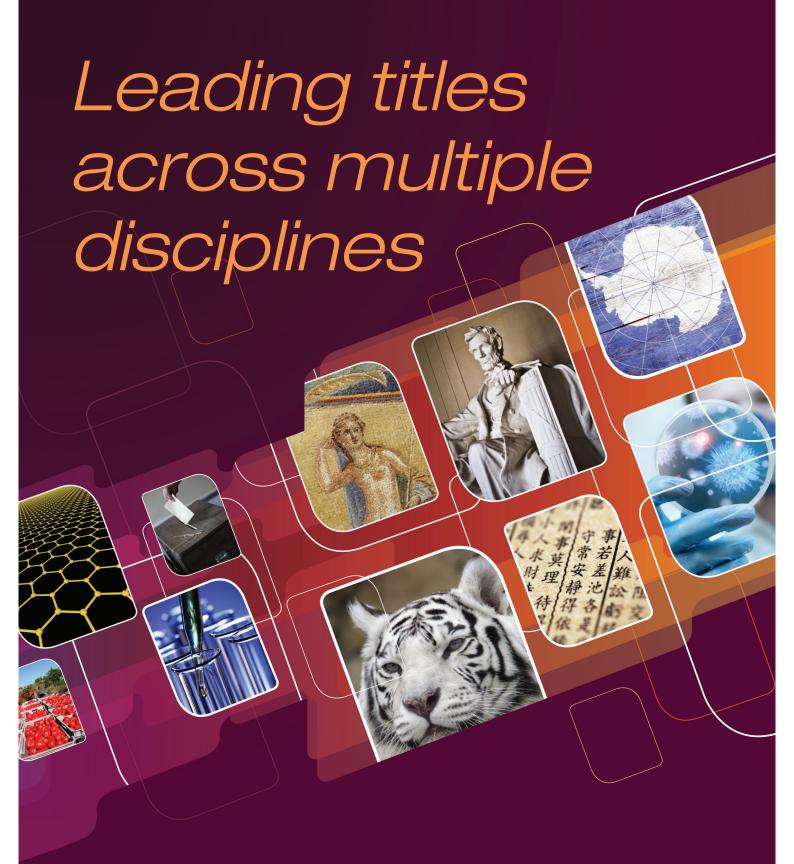
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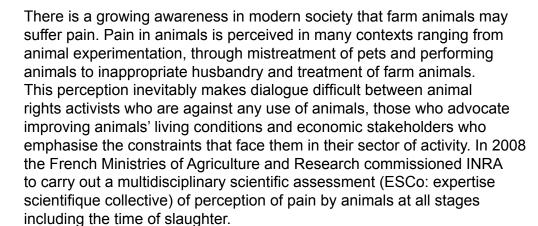


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Animal pain: Identifying, understanding and minimising pain in farm animals



This assessment focused on farm animals but broadened it to humans when felt necessary. Researchers from many disciplinary fields were involved in the assessment. Life sciences, including pain in humans as well as in animals, animal behavior, stress physiology and husbandry systems were scrutinized. Human and social sciences were also used to broaden the concept. The study was based on a body of 1,400 scientific articles and international reports. The inquiry first defined pain in animals to distinguish it from related concepts such as suffering and discomfort, and the ways in which pain is expressed: Are all animals able to feel pain and, if so, how? Is it related to their phylogenetic position? Secondly, it addressed the measurement of pain: what tools have we to identify and quantify pain and are they readily available? The effects of pain on animals' behaviour and performance were also documented. Then, thirdly, the inquiry identified feasible alternatives and solutions to reduce pain.

The assessment provided a new perspective on the biotechnical and societal components of the issue of animal pain and practical information on how it can be reduced. It also identified gaps and scientific controversies and pinpointed areas requiring further research.













