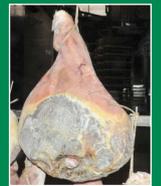


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# Advances in Animal Biosciences

## Alternatives to Piglet Castration

Proceedings of meetings held by  
the Cost action CA15215 IPEMA  
Innovative Approaches for Pork Production  
with Entire Males and Immunocastrates

Oeiras, Portugal, 8th February 2018  
Dubrovnik, Croatia, 27th August 2018



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# ***Advances in Animal Biosciences***

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*Advances in Animal Biosciences* is an associated publication to the journal *animal*. It aims to publish high-quality conference, symposium and workshop proceedings about animal-related aspects of the life sciences with emphasis on farmed and other managed animals. These can be in the form of a book of abstracts, summaries or complete papers. The format will highlight the title of the meeting and organisations involved but the publications will have the added advantage of forming a series under *Advances in Animal Biosciences*.

Subject areas can include aspects of Breeding and Genetics, Nutrition, Physiology and Functional Biology of Systems, Behaviour, Health and Welfare, Livestock Farming Systems, Human Health and Product Quality.

However, due to the integrative nature of biological systems, monographs and conference proceedings dealing with the translation of basic and strategic science into the whole animal and farming system and the impact on Productivity, Product Quality, Food Security, the Environment, Climate Change and Humans will be particularly welcome.

## **Information for Conference Organisers**

The Animal Consortium together with Cambridge University Press offers conference organisers a package that enables publication of high-quality conference, symposium and workshop proceedings about animal-related aspects of the life sciences with emphasis on farmed and other managed animals.

Summaries, abstracts or full papers may be published in *Advances in Animal Biosciences* and high-quality invited papers from these meetings may be submitted and published as a defined series in *animal*.

Conference organizers interested in publishing their proceedings should send an outline proposal for publication in *Advances in Animal Biosciences*, *animal*, or both journals to [cko@cambridge.org](mailto:cko@cambridge.org). The publisher together with the Editors-in-Chief will then provide an estimate of costs and the procedures to be used.

Manuscripts submitted to *Advances in Animal Biosciences* will be reviewed by the Editor-in-Chief and papers submitted to *animal* will be peer reviewed. If accepted after review, proceedings will be published within 12 weeks of receipt by the Publisher.

Cover pictures provided by G. Backus, U. Weiler, the Cost association and M. Font-i-Furnols.

# Proceedings

of meetings held by the Cost action CA15215 IPEMA  
supported by the European Union

Innovative Approaches for Pork Production with Entire Males and Immunocastrates

## 2018

### Advances in Animal Biosciences

This book is part of a series which is a companion to the journal ANIMAL



## Editorial

U Weiler<sup>1</sup>, C Larzul<sup>2</sup>, G Bee<sup>3</sup>, E von Borell<sup>4</sup>, M Font-I-Furnols<sup>5</sup>, M Škrlep<sup>6</sup>, M Aluwé<sup>7</sup>, M van Son<sup>8</sup>, P Lawlor<sup>9</sup>, S Ivanova<sup>10</sup>, I Bahelka<sup>11</sup>, I Tomašević<sup>12</sup>, L Tudoreanu<sup>13</sup>, M Bonneau<sup>14</sup>

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The present proceedings constitute summaries of papers presented at two meetings organised by the cost action CA15215 IPEMA (Innovative Approaches for Pork Production with Entire Males and Immunocastrates), supported by the European Union.

IPEMA ([www.ca-ipema.eu/](http://www.ca-ipema.eu/)) started in November 2016 and will end in October 2020. It aims at finding general, region-specific or chain-specific solutions to facilitate the development of alternatives to surgical castration of piglets, raising entire males and immunocastration. IPEMA is looking for integrated solutions taking into account Meat quality (Boar taint and other meat quality issues), Animal welfare, Management and production costs, Acceptance by stakeholders, consumers and citizens. IPEMA membership includes 128 scientists and stakeholders, from both the academic and professional worlds, representing 29 countries, mostly located in Europe.

The first meeting reported in this issue of *Advances in Animal Biosciences* was organised by IPEMA in Oeiras, Portugal, on 8<sup>th</sup> February 2018. The second meeting was co-organised by IPEMA and the scientific committee of the EAAP (European Federation of Animal Sciences) as a one-day symposium included in the programme of the Annual Meeting of the EAAP (27-31 August 2018, Dubrovnik, Croatia).

The summaries have been edited. Views expressed in all contributions are those of the authors and not those of IPEMA. This publication contains all the summaries that were available at the time of going to press.