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**Instruction template for abstract submission for EGGMEAT 2017**

**Preparation of abstracts:** Abstracts should be prepared using a Microsoft Word compatible format. Use only Times New Roman font with no bold type, a font size of 12 and the following section headers.

**Title: (< 190 characters**): Early growth and metabolic characterizations of two chicken lines divergently selected on their breast meat ultimate pH

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**Abstract (maximum 200 words):**

In chicken, the ultimate pH (pHu) of meat is largely determined by the muscle glycogen content at slaughter age. A divergent selection on the *Pectoralis major* pHu allowed the creation of the pHu+ and pHu- lines, which represent a unique model for studying the genetic and physiological control of the carbohydrate reserves and the meat quality. Several characteristics have been measured in the two lines at hatch then at 5 days of age. At hatch, the pHu+ and pHu- lines presented equivalent body weights and breast muscle yields. However, the pHu- line shows a higher glycaemia than the pHu+ line, a difference that will persist until slaughter age. After 5 days, the pHu+ and pHu- lines were already divergent in terms of glycogen (and pHu) and muscle yield, for a similar body weight. Differences between both lines observed at hatch and at 5 days were associated with regulation of signaling pathways involved in protein synthesis and muscle glycogen turnover. Furthermore, pHu+ and pHu- chicks have at hatch the ability to respond differently to nutrients and hormones consistent with the fact that after only 5 days of feeding, significant differences in yield and muscle glycogen contents exist between the two lines.

**Keywords (maximum 5):** Chicken, Metabolism,Glycogen, Muscle

**Preferred presentation type (please indicate): ~~ORAL~~ or POSTER**

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**Submission of abstracts:** Abstracts should be submitted as an attachment to the following email address using the following **file** **naming convention**: AUTHOREGGMEAT2017.docx

**Email address for abstract submission:** EggMeat2017abstracts@ed.ac.uk with **EGGMEAT2017 ABSTRACT** included in the subject line.

**No abstracts will be accepted after the deadline (see** [**http://eggmeat2017.efconference.co.uk/**](http://eggmeat2017.efconference.co.uk/)for the latest submission deadline dates.

**Decision process:** Abstracts will be reviewed by the scientific committee. Authors will receive notification from the committee of the outcome of the review process by 30/4/17.

Abstracts with no registered attendee will automatically be withdrawn from the program.