

Accepted Manuscript

Establishment of a non-invasive method for stress evaluation in farmed salmon based on direct fecal corticoid metabolites measurement

Yanran Cao, Ann-Kristin Tveten, Anne Stene



PII: S1050-4648(17)30219-X

DOI: [10.1016/j.fsi.2017.04.012](https://doi.org/10.1016/j.fsi.2017.04.012)

Reference: YFSIM 4537

To appear in: *Fish and Shellfish Immunology*

Received Date: 22 December 2016

Revised Date: 20 March 2017

Accepted Date: 18 April 2017

Please cite this article as: Cao Y, Tveten A-K, Stene A, Establishment of a non-invasive method for stress evaluation in farmed salmon based on direct fecal corticoid metabolites measurement, *Fish and Shellfish Immunology* (2017), doi: 10.1016/j.fsi.2017.04.012.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Establishment of a non-invasive method for stress evaluation in farmed salmon
based on direct fecal corticoid metabolites measurement**

Yanran Cao, Ann-Kristin Tveten, Anne Stene

Department of Biology Science, Norwegian University of Science and Technology,
Ålesund, Norway

Corresponding author:

Yanran Cao, M.D., Ph.D.

Department of Biology Science

Norwegian University of Science and Technology in Ålesund

Postboks 1517

Larsgårdsveien 2

N-6025 Aalesund

Norway

Phone: +47-70161261

Email: yaca@ntnu.no

Short title: Direct fecal corticoid metabolites measurement in farmed Atlantic
salmon

Keywords: Atlantic salmon; welfare; stress, cortisol; fecal corticoid
metabolites; infectious disease

Word count (abstract): 374

Word count (manuscript): 5005

Number of figures: 6

Download English Version:

<https://daneshyari.com/en/article/5540735>

Download Persian Version:

<https://daneshyari.com/article/5540735>

[Daneshyari.com](https://daneshyari.com)