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The brain-gut axis of fish: Rainbow trout with low and high cortisol response show innate differences in intestinal integrity and brain gene expression

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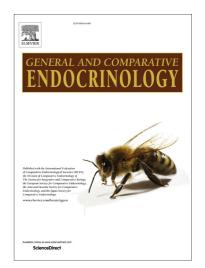
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The brain-gut axis of fish: Rainbow trout with low and high cortisol response show 1 2 innate differences in intestinal integrity and brain gene expression 3 Malin Rosengren\* a, Per-Ove Thörnqvistb, Svante Winbergb, and Kristina Sundell a 4 <sup>a</sup> Department of Biological and Environmental Sciences, University of Gothenburg, PO Box: 5 463, SE-405 31 Gothenburg, Sweden 6 <sup>b</sup> Department of Neuroscience, Uppsala University, PO Box: 593, SE-75124 Uppsala, Sweden 7 8 malin.rosengren@bioenv.gu.se, per-ove.thornqvist@neuro.uu.se 9 svante.winberg@neuro.uu.se, kristina.sundell@bioenv.gu.se 10 11 12 \*Corresponding Author: 13 Malin Rosengren Department of Biological and Environmental Sciences 14 University of Gothenburg 15 PO-box 465 16 17 405 31 Gothenburg 18 Sweden 19 malin.rosengren@bioenv.gu.se 20 Tel: +46 70886565

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