

Expression of *NR3C1*, *INSR* and *SLC2A4* genes in skeletal muscles and *CBG* in liver depends on age and breed of pigs

DAWID SZCZEPANKIEWICZ¹, MAREK SKRZYPSKI¹, EWA PRUSZYŃSKA-OSZMAŁEK¹, SŁAWOMIR SADKOWSKI², MACIEJ SASSEK¹, TATIANA WOJCIECHOWICZ¹, PAWEŁ ANTONI KOŁODZIEJSKI¹, PRZEMYSŁAW KACZMAREK¹, MACIEJ SZYDŁOWSKI², PAWEŁ MAĆKOWIAK¹, KRZYSZTOF WOJCIECH NOWAK¹

¹Department of Animal Physiology and Biochemistry, Poznań University of Life Sciences, Poznań, Poland

²Department of Genetics and Animal Breeding, Poznań University of Life Sciences, Poznań, Poland

Supplementary Online Material (SOM)

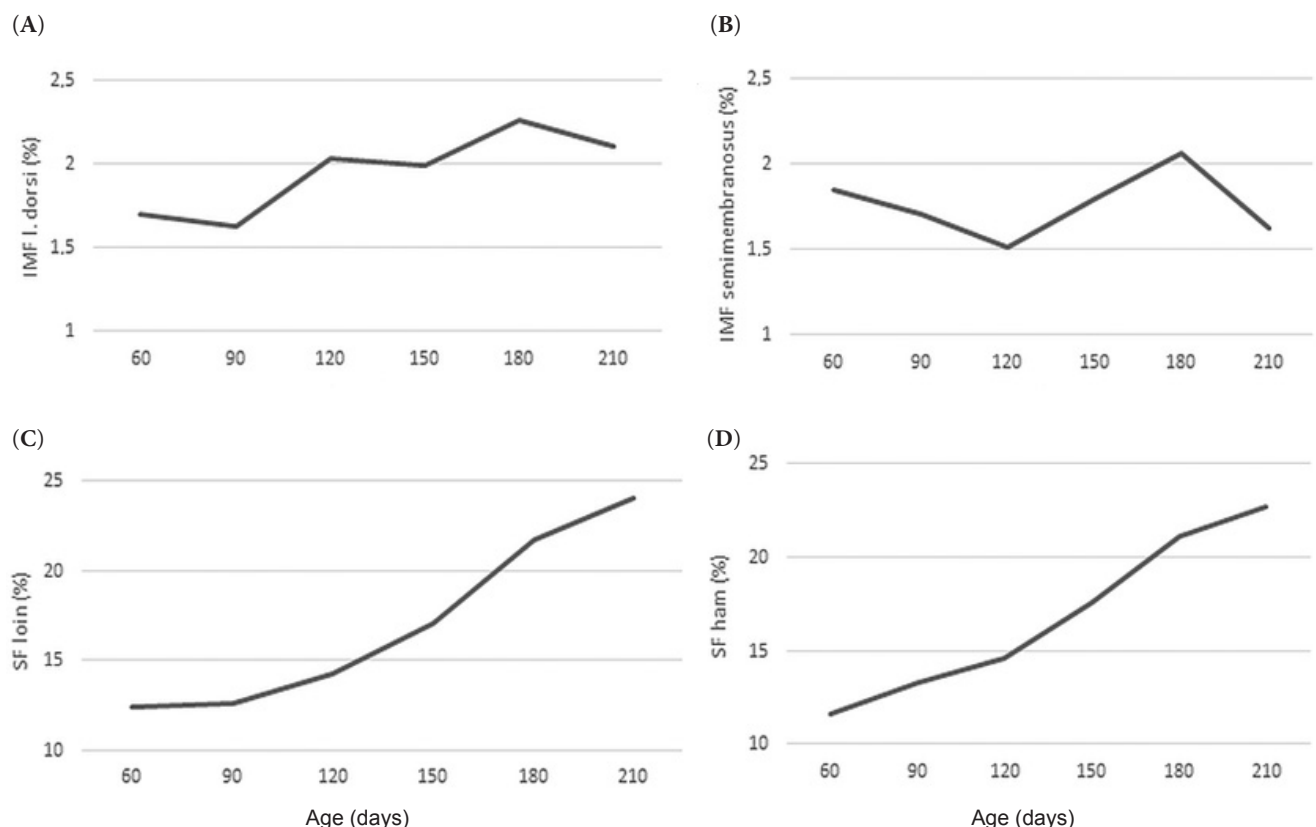


Figure S1. Changes in intramuscular fat content in *longissimus dorsi* (A) and *semimembranosus* (B) muscle tissues and subcutaneous fat content in loin (C) and ham (D) during ontogenesis in analysed pigs

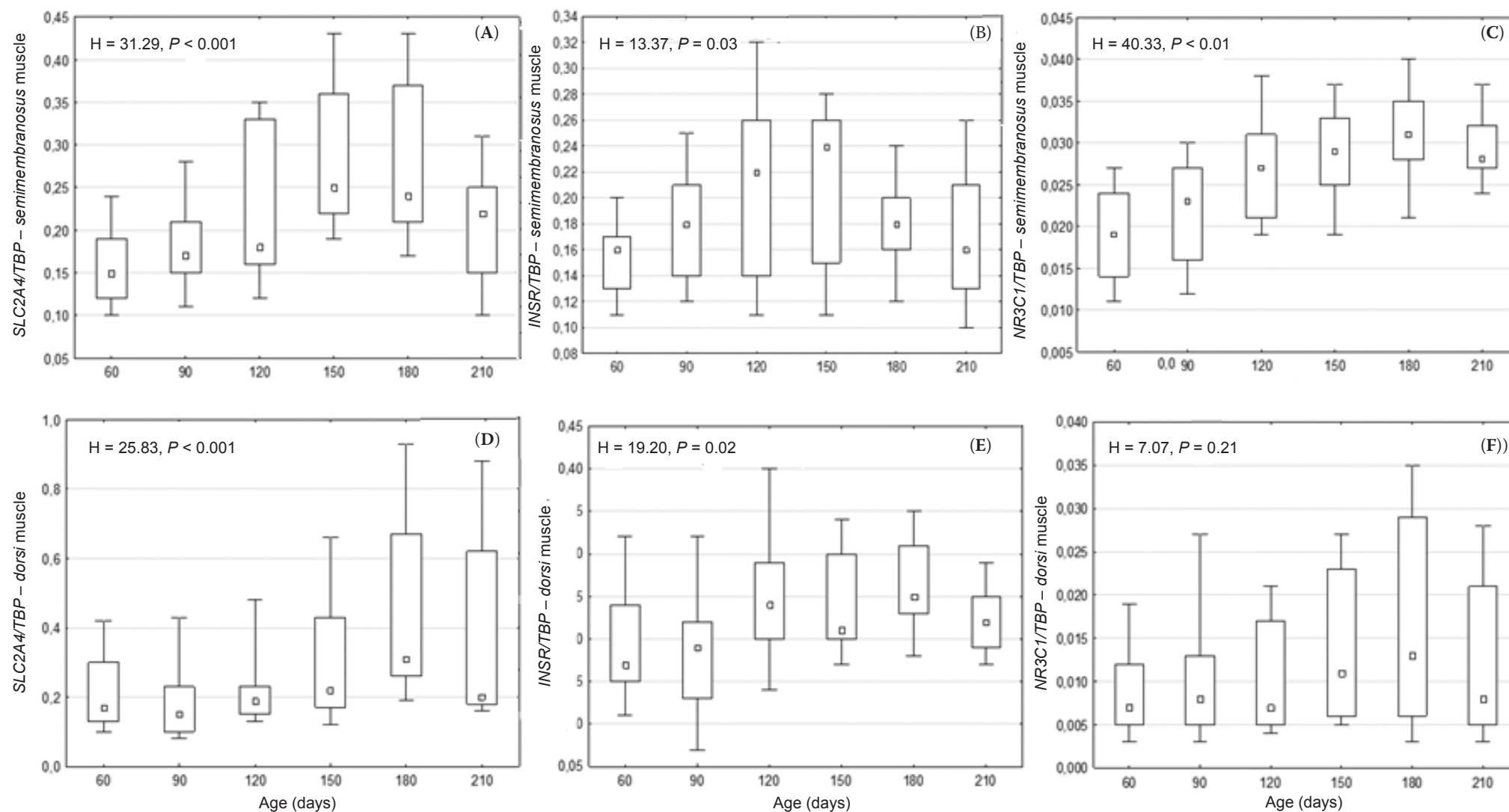


Figure S2. Changes in the expression of analysed genes *SLC2A4*, *INSR*, *NR3C1* (arbitrary units) in *semimembranosus* (A, B, C) and *longissimus dorsi* muscles (D, E, F), respectively, with age (two-way ANCOVA), median (square) with 25–75% quartile (large rectangle) and confidence interval (bars)

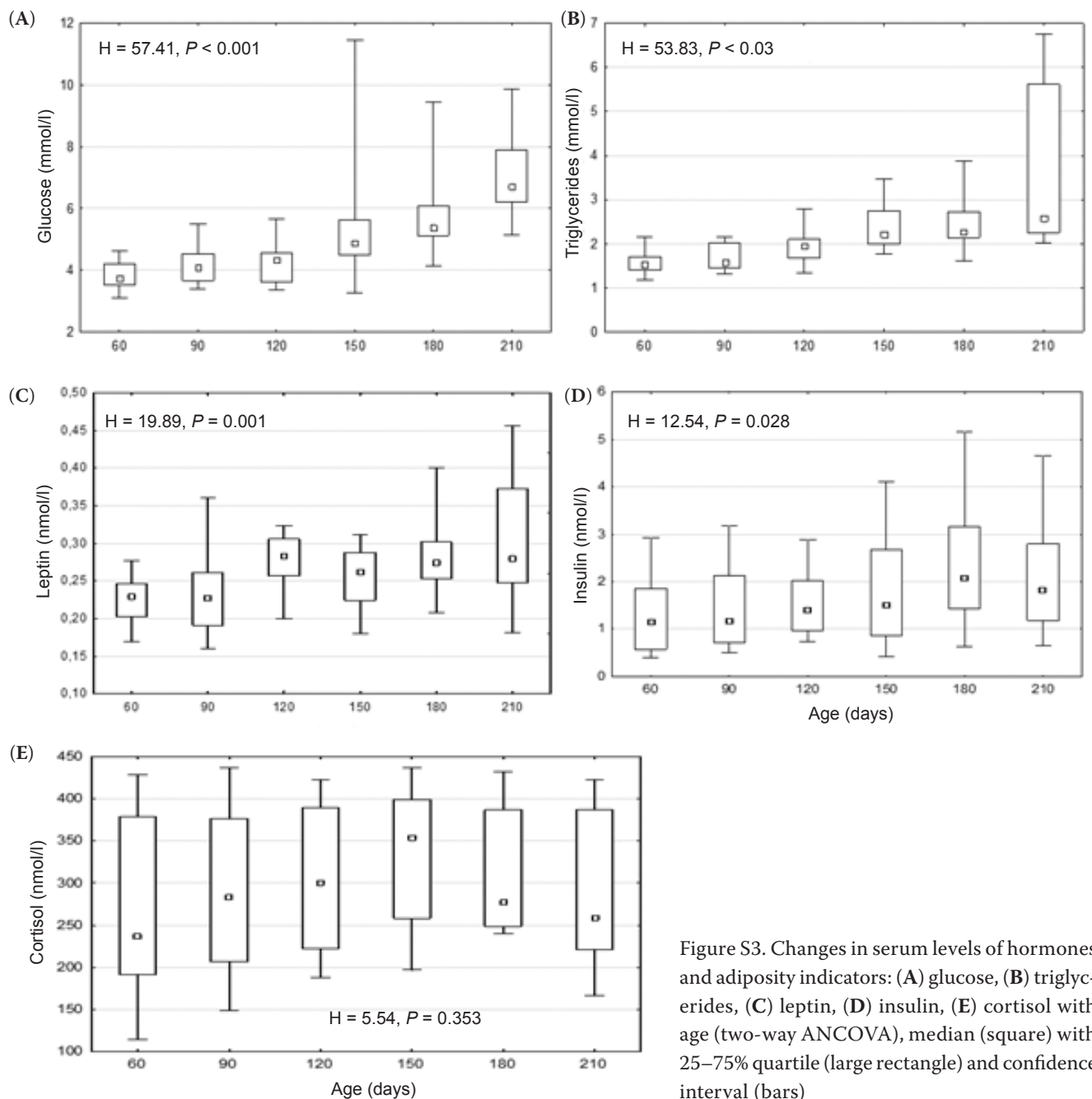


Figure S3. Changes in serum levels of hormones and adiposity indicators: (A) glucose, (B) triglycerides, (C) leptin, (D) insulin, (E) cortisol with age (two-way ANCOVA), median (square) with 25–75% quartile (large rectangle) and confidence interval (bars)

Supplementary Table S1. Sequences of porcine PCR primers used in the study

Gene name and Accession No.	Sequences	T _a	Product size (bp)
<i>CBG</i> NM_213812	F: 5' ATCAAGAATAAGACGCAAGGGA 3' R: 5' GTTCTCTTCCCTGGTGCTTTC 3'	60°C	141
<i>INSR</i> AF102858	F: 5' AACGCCAGGGACATCGTCAAGG 3' R: 5' CTTTGGACACCACCCCAGGAG 3'	60°C	166
<i>SLC2A4</i> , AF141956	F: 5' CCTTGTCCTCGCCGTCTTC 3' R: 5' TGCCTGGTGGGATGGAGC 3'	60°C	158
<i>NR3C1</i> NM_001008481	F: 5' ACCAGGATTCAGGAACTTACA 3' R: 5' CAGGAGCAAAACACAGCAA 3'	60°C	134
<i>TBP</i> DQ845178	F: 5' TTGAGAACATCTACCCTATCCT 3' R: 5' CGTCCACAACACCACCATT 3'	60°C	135
<i>TOP2B</i> AF222921	F: 5' GATGCTAATGATGCTGGT 3' R: 5' AAAACTCCGTATCTGTCTC 3'	60°C	125
<i>GAPDH</i> DQ845173	F: 5' TTTGTGATGGGCGTGAACC 3' R: 5' AGTCTTCTGGGTGGCAGTGAT 3'	60°C	171
<i>ACTB</i> DQ845171	F: 5' GCCAGGTCATCACCATCGG 3' R: 5' CAGCACCGTGTTGGCGTAG 3'	60°C	164
<i>HPRT1</i> NM_001032376	F: 5' CCATTCCTATGACTGTAGATTT 3' R: 5' CTTTGGATTATGCTGCTTG 3'	60°C	194