

## *Supplementary Material*

### **A Human Gonadal Cell Model from Induced Pluripotent Stem Cells.**

Daniel Rodríguez Gutiérrez<sup>1,3</sup>, Wassim Eid<sup>1,2,3</sup>, Anna Biason-Lauber<sup>1\*</sup>

<sup>1</sup>Endocrinology division, Section of Medicine, University of Fribourg, Fribourg, Switzerland

<sup>2</sup>Department of Biochemistry, Medical Research Institute, University of Alexandria, Alexandria, Egypt

<sup>3</sup>These authors contributed equally to this work.

\*Corresponding Author:

Anna Biason-Lauber, MD, Prof.  
Endocrinology Section of Medicine

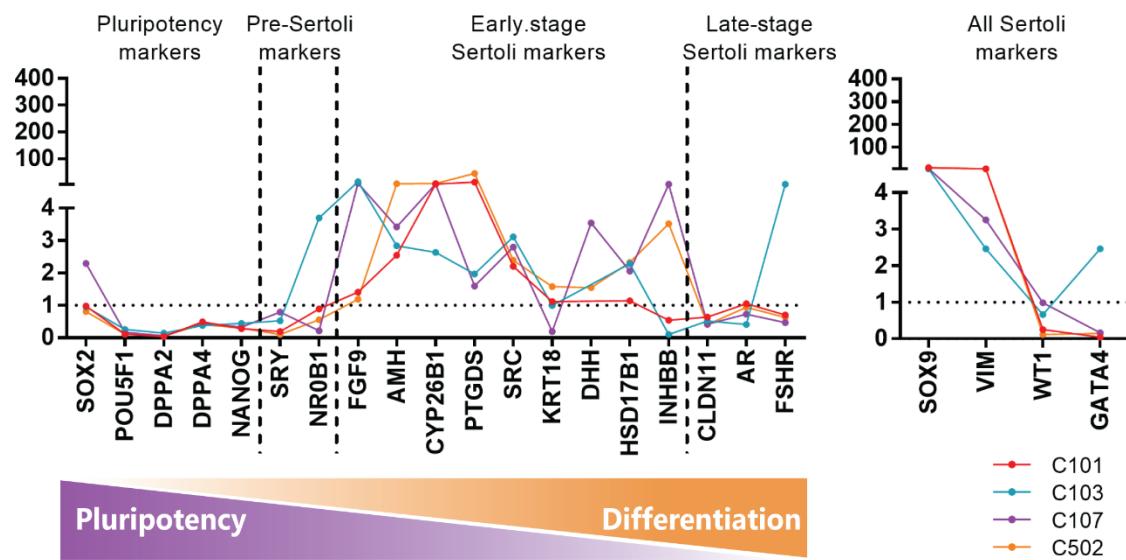
University of Fribourg  
Chemin du muséé 05  
1700 Fribourg  
Switzerland  
Phone: +41 26 300 8534  
E-mail: (ABL) [anna.lauber@unifr.ch](mailto:anna.lauber@unifr.ch)

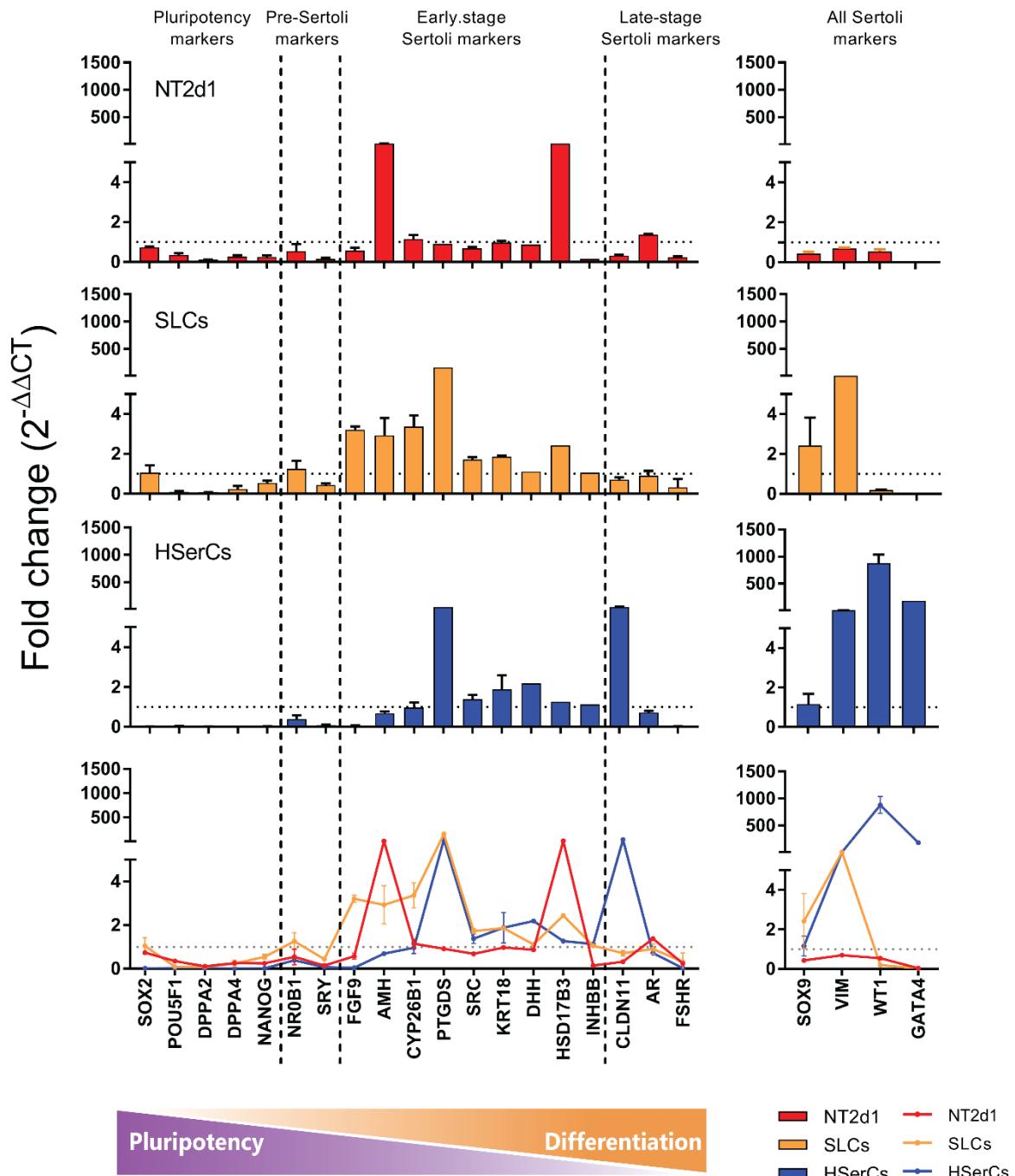
## 1 Supplementary Tables

Gene	Fordward sequence	Reverse sequence
SOX2	5'-GCTACAGCATGATGCAGGACCA-3'	5'-TCTGCGAGCTGGTCATGGAGTT-3'
OCT4	5'-CCTGAAGCAGAAGAGGGATCAC-3'	5'-AAAGCGGCAGATGGTCGTTGG-3'
DPPA2	5'-GGACTGGTGTCAACAACACTCGGT-3'	5'-TCACTGCCTTGCCTTCCTCGA-3'
DPPA4	5'-CTCCACAGAGAACGAGGGAA-3'	5'-GGTTGTCAGTGTGCTCTGCCTT-3'
NANOG	5'-CTCCAACATCCTGAACCTCAGC-3'	5'-CGTCACACCATTGCTATTCTTCG-3'
NR0B1	5'-CCAAATGCTGGAGTCTGAACATC-3'	5'-CCCACTGGAGTCCTGAATGTA-3'
SRY	5'-GCTGCAAGGGCTTCTCAAGCG-3'	5'-GCCACGAGGTCTCGGTTCAAGT-3'
AMH	5'-CGCTGCTTCACACGGATGACC-3'	5'-GGTGGCGACTCCTCGAGTTCC-3'
FGF9	5'-CCAGGAAAGACCACAGCCGATT-3'	5'-CCATACAGCTCCCCCTCTCAT-3'
CYP26B1	5'-GCACCTCTTGAGGTCTACCAG-3'	5'-AGGATCTGCCGAGCCTGAATGC-3'
PTGDS	5'-AGCCCACCTCCAGCAGGACAA-3'	5'-CAGACTTGCACATGGACAACGC-3'
SRC	5'-CTGCTTGGCGAGGTGTGGATG-3'	5'-CCACAGCATACAACACTGCACCAAG-3'
KRT18	5'-GCTGGAAGATGGCGAGGACTT-3'	5'-TGGTCTCAGACACCACCTTGCC-3'
DHH	5'-AGGATGAGGAGAACAGTGGAGC-3'	5'-TCAGTCACTCGTAGGCGCACTC-3'
HSD17B3	5'-TTGGAGGTGAAACCTGTGGCTG-3'	5'-CTACCTGACCTTGGTGTGAGC-3'
INHBB	5'-GAAATCATCAGCTTCGCCGAGAC-3'	5'-GGCAGGAGTTTCAGGTAAAGCC-3'
CLDN11	5'-GGCTGGTGTGCTCATTCTGC-3'	5'-AGCACCAATCCAGCCTGCATAC-3'
AR	5'-ATGGTGAGCAGAGTGCCTATC-3'	5'-ATGGTCCCTGGCAGTCTCCAAA-3'
FSHR	5'-GGTTGTCCTCACCAAGC-3'	5'-GCTTGGAGAACACATCTG-3'
SOX9	5'-GGCTACGACTGGACGCTGGT-3'	5'-TGCTGAGCTCGGCCTGTGC-3'
VIM	5'-AGGCAAAGCAGGAGTCCACTGA-3'	5'-ATCTGGCGTTCCAGGGACTCAT-3'
WT1	5'-CGAGAGCGATAACCACACAAACG-3'	5'-GTCTCAGATGCCGACCGTACAA-3'
GATA4	5'-GCGGTGCTCCAGCAACTCCA-3'	5'-GACATCGCACTGACTGAGAACG-3'
PPIA	5'-GGCAAATGCTGGACCCAACACA-3'	5'-TGCTGGTCTTGCCATTCTGG-3'

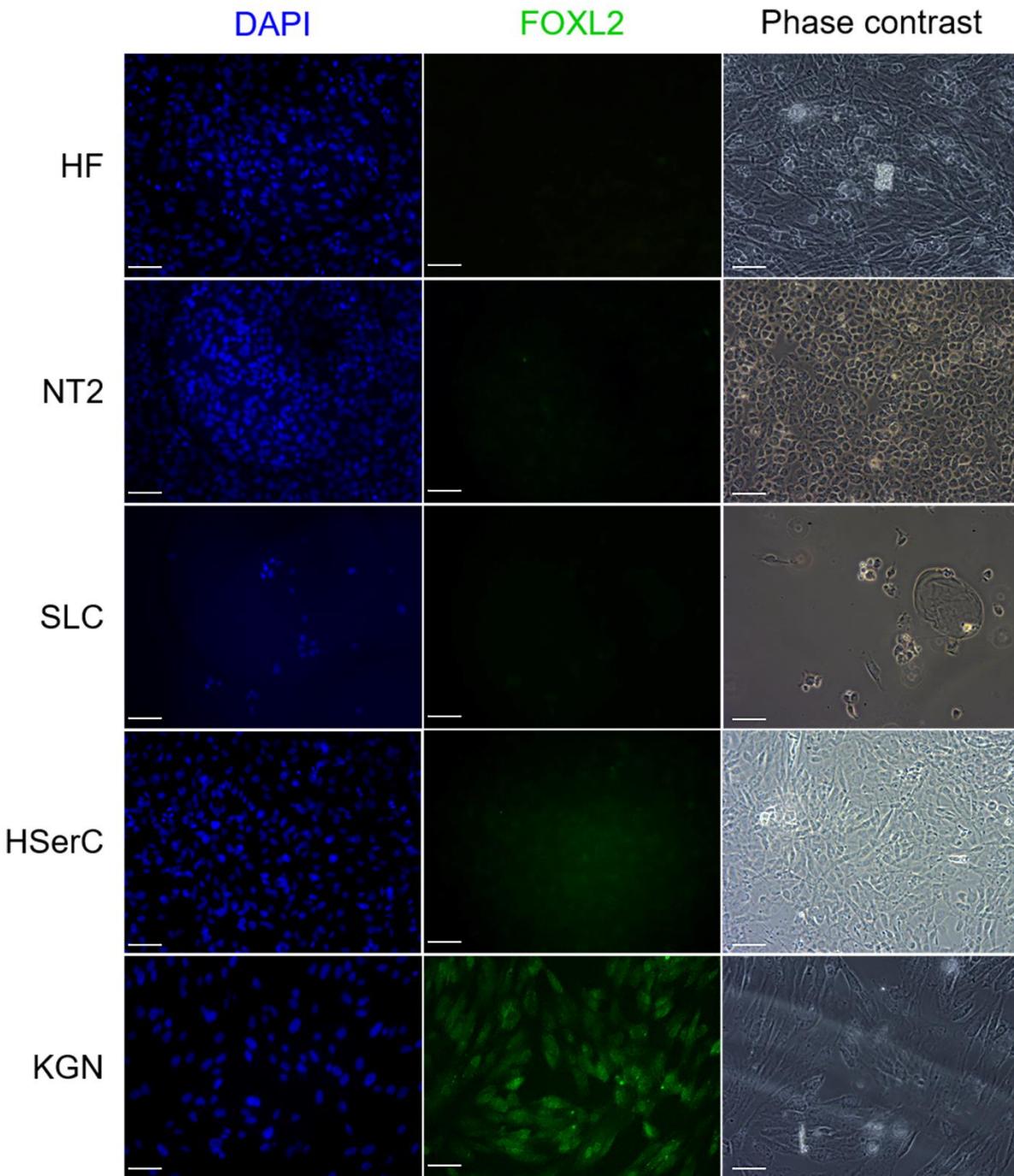
**Table S1:** List of primer pairs used for qRT-PCR analysis.

## 1.1 Supplementary Figures





**Supplementary figure S2:** qRT-PCR analysis of Sertoli-like single colonies. Colored bars and lines are mean  $\pm$  SD. HSerCs: human Sertoli cells, NT2d1: NT2d1 cells, SLCs: Sertoli like cells. n=4 for NT2d1 and SLCs, n=2 for HSerCs and iPSCs.



**Supplementary figure S3:** FOXL2 immunofluorescence staining analysis. Antibodies against FOXL2 were used. Mounting medium contains DAPI stain. SLCs were compared with NT2d1 cells and TM4 cells. KGN cells were used as a positive control for the expression of FOXL2. FOXL2 is absent or weakly expressed in Sertoli cell TM4 cells and SLCs but present in NT2d1 cells. HF: terminally differentiated fibroblasts, HSerCs: primary human Sertoli cells, NT2d1: NT2d1 cells, SLCs: Sertoli like cells. Scale bars 50  $\mu$ m.