

Supplementary Information for

Effects of Streptozotocin Induced Diabetes on One-Carbon Cycle and Sperm Function

Farnaz Pouriayevali, D.V.M.¹, Marziyeh Tavalaee, Ph.D.¹* , Fatemeh Kazeminasab, Ph.D.², Maurizio Dattilo, Ph.D.³* , Mohammad Hossein Nasr-Esfahani, Ph.D.¹*

- 1. Department of Animal Biotechnology, Reproductive Biomedicine Research Center, Royan Institute for Biotechnology, Isfahan, Iran
- 2. Department of Physical Education and Sport Sciences, Faculty of Humanities, University of Kashan, Kashan, Iran
- 3. Parthenogen, R&D Department, Lugano, Switzerland

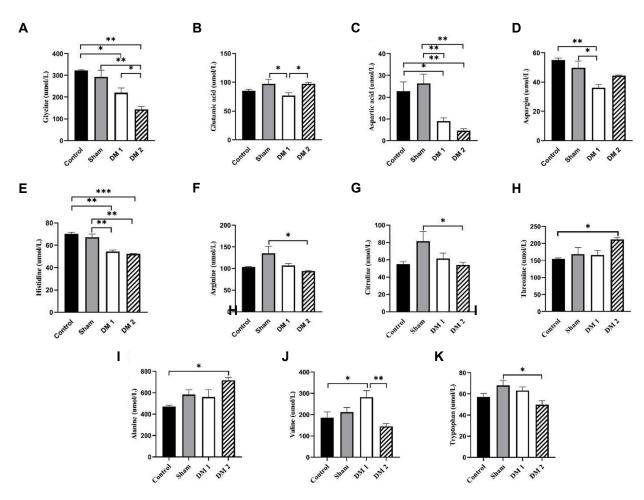


Fig.S1: Comparison of the other serum factors involved in One-carbon cycle among the various study groups. **A.** Glycine, **B.** Glutamic acid, **C.** Aspartic acid, **D.** Aspargin, **E.** Histidine, **F.** Arginine, **G.** Citruline, **H.** Threonine, **I.** Alanine, **J.** Valine, and K. Tryptophan. Significance levels were indicated as follows: *; P<0.05, **; P<0.01, and ***; P<0.001. Sham (n=3), Control (n=3), DM1 (n=3), and DM2 (n=3).

Received: 02/September/2023, Revised: 25/November/2023, Accepted: 23/ December/2023

*Corresponding Addresses: P.O.Box: 8165131378, Department of Animal Biotechnology, Reproductive Biomedicine Research Center, Royan Institute for Biotechnology, Isfahan, Iran

Parthenogen, R&D Department, Lugano, Switzerland

Emails: m.tavalaee@royan-rc.ac.ir, maurizio.dattilo@parthenogen.ch, mh.nasr-esfahani@royaninstitute.org

