CURATED PUBMED RESEARCH — GROUPED BY PERINATAL CONTEXT

Foundational redox signaling biology

(Educational context — not product-specific clinical evidence)

This curated list includes peer-reviewed scientific literature exploring redox signaling, oxidative stress, glutathione regulation, and cellular communication across fertility, pregnancy, placental biology, and early development.

These articles provide foundational biological context and are presented for educational purposes. They are not product-specific clinical evidence and are not intended to diagnose or guide treatment.

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MOTHER — Fertility, Cycling, Pregnancy Physiology

Oxidative stress and female fertility

- Agarwal A, et al. *Oxidative stress and its implications in female infertility.*
  Reproductive Biology and Endocrinology, 2012

Redox balance and reproductive health

- Ruder EH, et al. *Oxidative stress and reproductive health.*
  Human Reproduction Update, 2009

Environmental and lifestyle stressors

- Al-Gubory KH. *Environmental pollutants and lifestyle factors induce oxidative stress and poor reproductive outcomes*.
  Reproductive Biology and Endocrinology, 2014

Glutathione regulation and maternal resilience

- Lu SC. *Regulation of glutathione synthesis*
  Molecular Aspects of Medicine, 2009

FATHER — Male Fertility & Sperm Integrity

Oxidative stress in male reproductive biology

- Aitken RJ, Baker MA. *Oxidative stress and male reproductive biology.*
  Reproduction, Fertility and Development, 2006.

Clinical perspectives on male infertility

- *Oxidative stress and male infertility--a clinical perspective - PubMed*
  Human Reproduction Update, 2008.

Redox imbalance and sperm quality

- Agarwal A, et al. *Role of oxidative stress in male infertility.*
  Urology, 2014.

PLACENTA — Pregnancy Regulation & Adaptation

Placental oxidative stress

- Burton GJ, Jauniaux E. *Oxidative stress*.
  Best Practice & Research: Clinical Obstetrics & Gynaecology, 2011.

Redox regulation in placental tissue

- *Oxidative stress in the placenta - PubMed*
  Histochemistry and Cell Biology, 2004.

Antioxidant defenses during pregnancy

- Al-Gubory KH, et al. *Oxidative stress and antioxidant defenses in pregnancy.*
  Reproductive Sciences, 2010.

EARLY LIFE — Embryo, Development, Regulation

Redox regulation of early embryo development

- *REDOX regulation of early embryo development - PubMed*.
  Reproduction, 2002.

Glutathione status in early embryos

- Gardiner CS, Reed DJ. *Status of glutathione during oxidative stress in the early embryo*.
  Biology of Reproduction, 1994.

Reactive oxygen species in development

- *Reactive Oxygen Species in Embryo Development: Sources, Impacts, and Implications for In Vitro Culture Systems*.
  Reproduction, 2007

FOUNDATIONAL CONTEXT — Redox Signaling (ROS) & Regulation (Applies Across All)

Redox signaling as normal biology

- Sies H. *Role of metabolic H_2O_2 generation: redox signaling and oxidative stress*. *Journal of Biological Chemistry*, 2014.

Redox regulation and resilience

- Holmström KM, Finkel T. *Cellular mechanisms and physiological consequences of redox-dependent signalling.* *Nature Reviews Molecular Cell Biology*, 2014.

Redox networks and regulation

- *Redox theory of aging - PubMed*. *Redox Biology*, 2015.