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**Manuscript NO:** 53545

**Manuscript Type:** MINIREVIEWS

**Neuroendocrine, epigenetic, and intergenerational effects of general anesthetics**

Martynyuk AE *et al.* Intergenerational effects of general anesthetics

Anatoly E Martynyuk, Ling-Sha Ju, Timothy E Morey, Jia-Qiang Zhang

### Abstract

The progress of modern medicine would be impossible without the use of general anesthetics (GAs). Despite advancements in refining anesthesia approaches, the effects of GAs are not fully reversible upon GA withdrawal. Neurocognitive deficiencies attributed to GA exposure may persist in neonates or endure for weeks to years in the elderly. Human studies on the mechanisms of the long-term adverse effects of GAs are needed to improve the safety of general anesthesia but they are hampered not only by ethical limitations specific to human research, but also by a lack of specific biological markers that can be used in human studies to safely and objectively study such effects. The latter can primarily be attributed to an insufficient understanding of the full range of the

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1	<b>Crossref</b> 84 words Zhang, M. Q., M. H. Ji, Q. S. Zhao, M. Jia, L. L. Qiu, J. J. Yang, Y. G. Peng, J. J. Yang, and A. E. Martynyuk. "Neurob	2%
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