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Iron and Infant Development

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submissions:

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Message from the Guest Editors

Dear Colleagues,

Iron deficiency is the most common single-nutrient disorder in the world and infants are particularly vulnerable due to their rapid growth and limited dietary sources of iron. Maternal iron deficiency anemia can negatively impact the iron endowment of the neonate. Maternal undernutrition can promote iron deficiency anemia, but emerging research also suggests maternal systemic inflammation may play an important role in iron metabolism during the perinatal period. Systemic inflammation, which may stem from infection, obesity, or psychological stress, may cause disruption to maternal and subsequently fetal iron nutrition.

We welcome papers addressing these multilevel determinants of iron status, from genetics to environment, from the perinatal period to infancy. Topics can include iron endowment of the neonate at birth or during infancy and its deleterious effects on neurocognitive development, iron transfer across the placenta to the fetus and consequences for development in utero, and novel therapies or adjustments to existing therapies to address iron deficiency in utero and during infancy.





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