Perinatal protein malnutrition in pups

Physical development delay

- Dorsal fur growth
- Ventral fur growth
- Opening of auditory canal
- Opening of eyes
- Weight

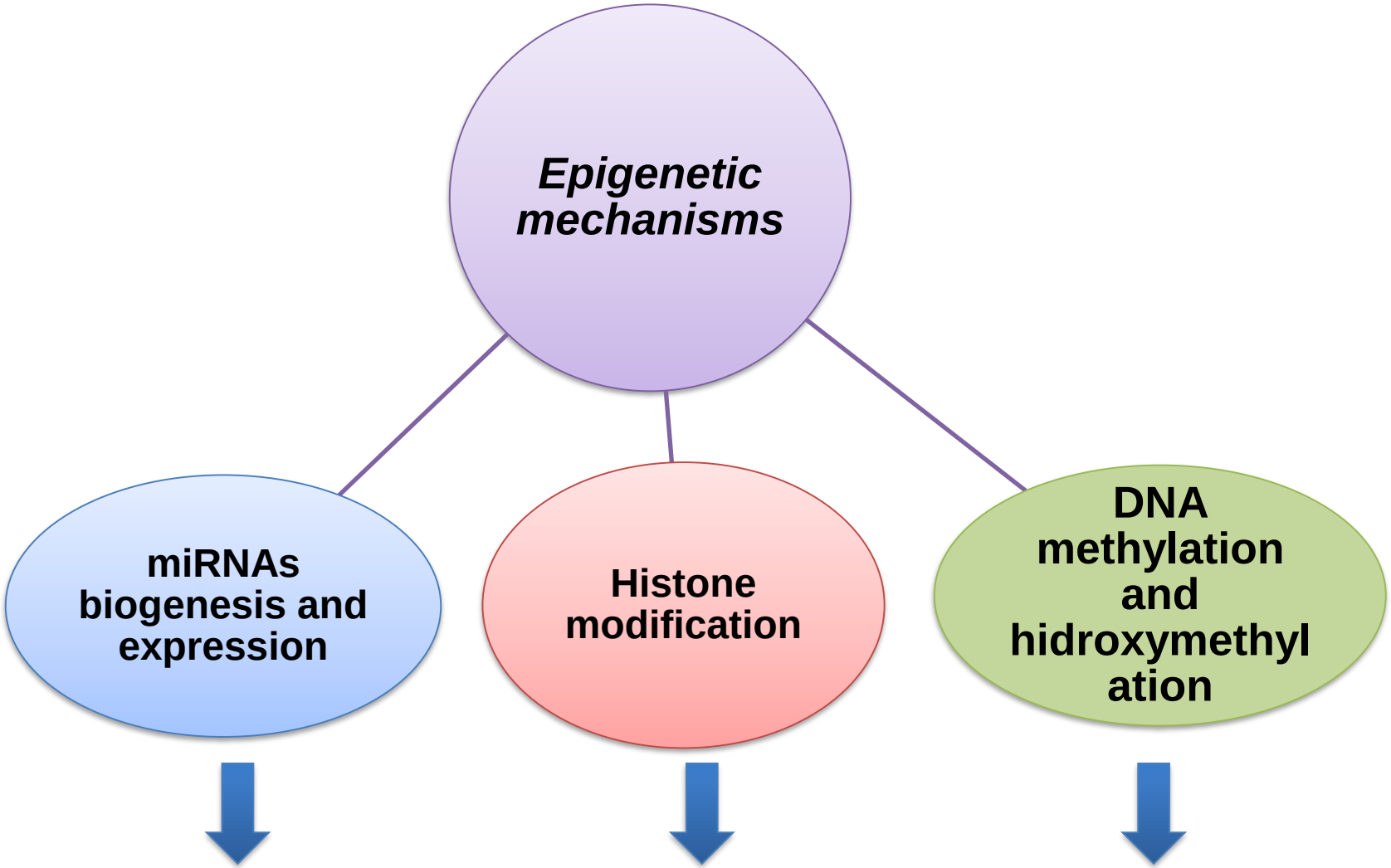
Neuro-muscular development delay

- Righting reflex
- Negative geotaxis
- Visual and sound response
- Grip strength

Anxiety-like behavior

Depressive-like behavior

Belluscio et al 2014 and 2016
Berardino et al 2017 and 2019



Biogenesis and expression of miRNA deregulated

Sex- and region- specific differences on modulation of histone marks and HDACs

Sex- and region- specific changes on DNA methylation/demethylation machinery

Berardino et al 2017

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