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EPIGENETICS

'the study of mitotically and/or meiotically heritable changes in gene function that cannot be explained by changes in DNA sequence'

Adrian Bird (2007)

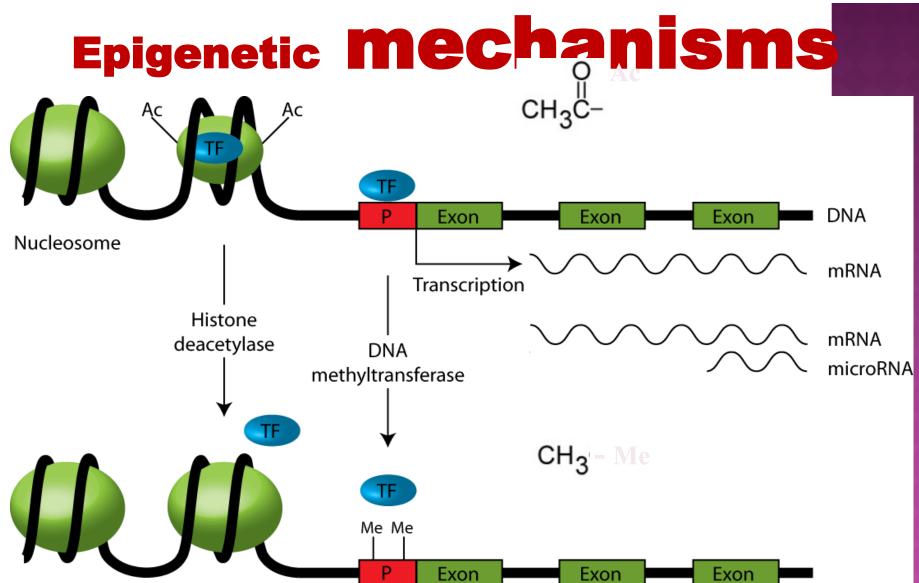


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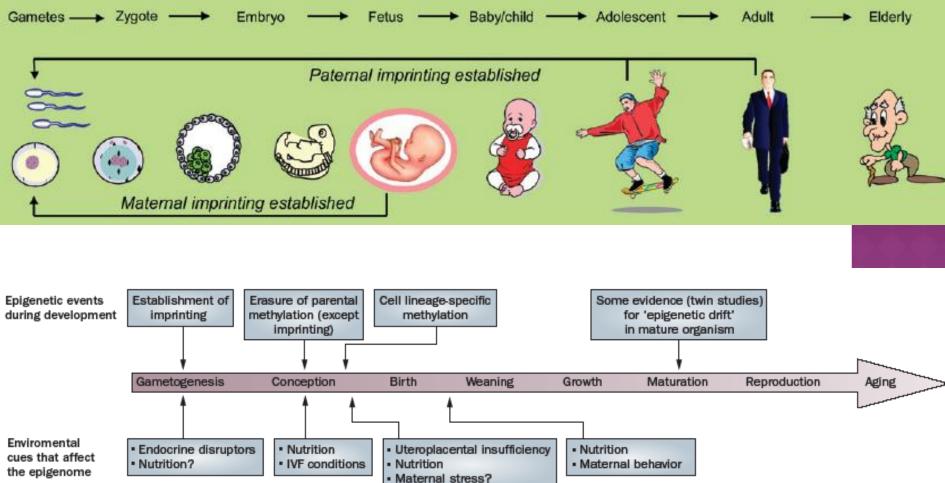


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Gluckman et al. 2009



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Disease: a price of adaptation?



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Predictive Adaptive Response (PAR) hypothes

The epigenetic adaptation processes implying alterations of gene expression to buffer the organism against environmental changes support adaptability to the expected life-course conditions.

Gluckman and Hanson, 2004



EXAMPLE: MEADOW VOLE

spring-born offspring – thin coat

autumn-born offspring – thick coat



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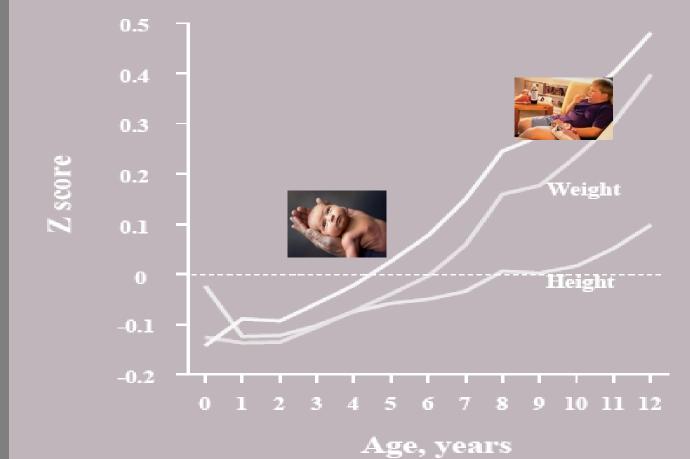
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Catch-up growth and adult-onset metabolic disease

Childhood growth of 290 men and women with Type 2 diabetes from a cohort of 8760, Helsinki, Finland





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Type 2 diabetes in cohorts exposed to the Ukraine famine of 1932-33 in early life



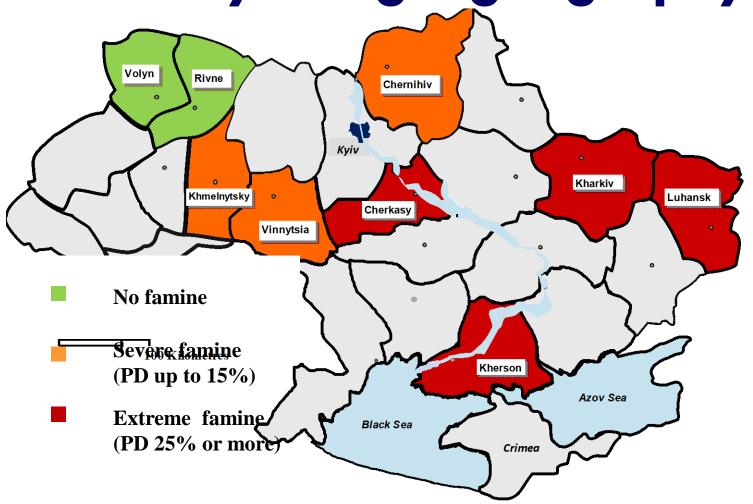
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Study design: geography





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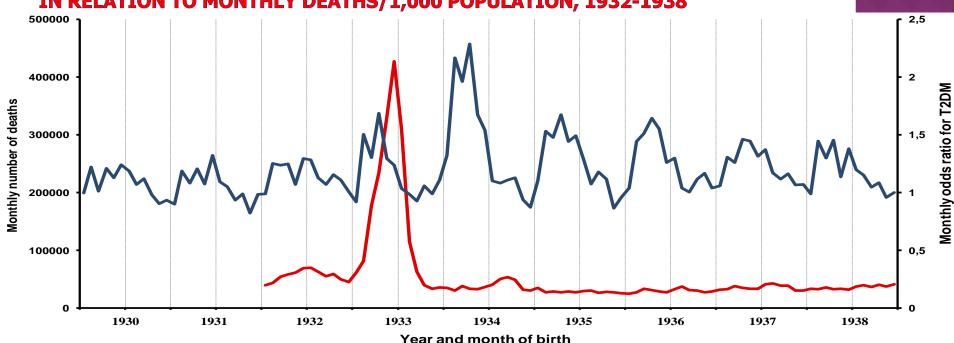
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TYPE 2 DIABETES ODDS RATIO'S UKRAINE, ALL REGIONS COMBINED RELATIVE TO BIRTHS IN DECEMBER, 1938









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Conclusions

- 1. In utero exposure to Ukraine famine led to an increased risk of type 2 diabetes in adulthood.
- 2. The highest risk was seen in those persons who were exposed to the famine periconceptionally.
- 3. It suggests an epigenetic basis for this long-term programming effect.



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Seasonal programming of diabetes mellitus in Ukraine

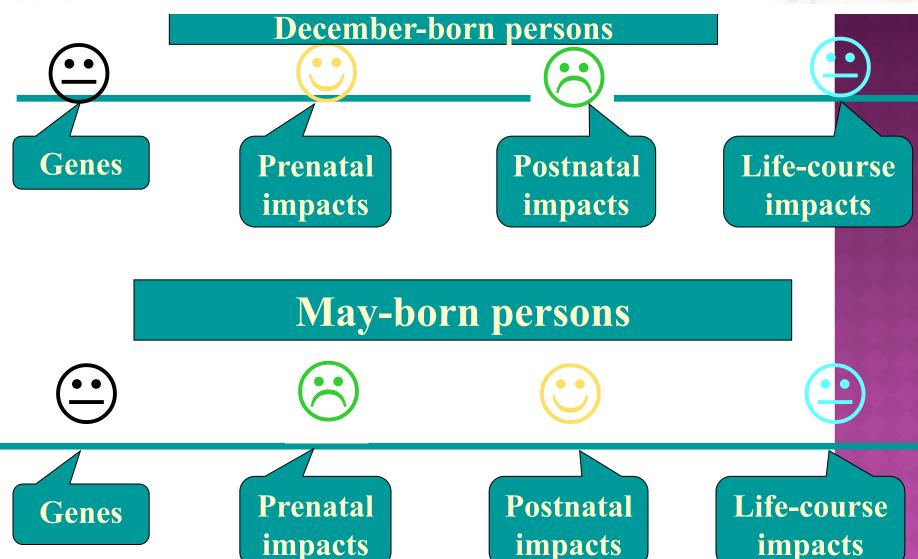


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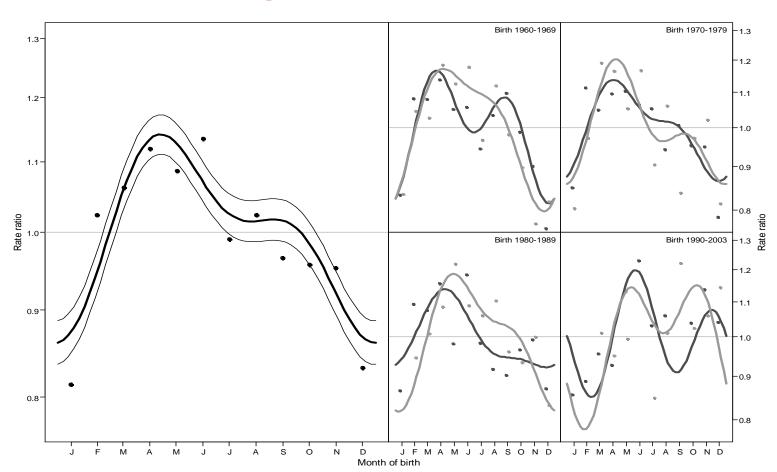
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Seasonality of birth for T1D in Ukraine





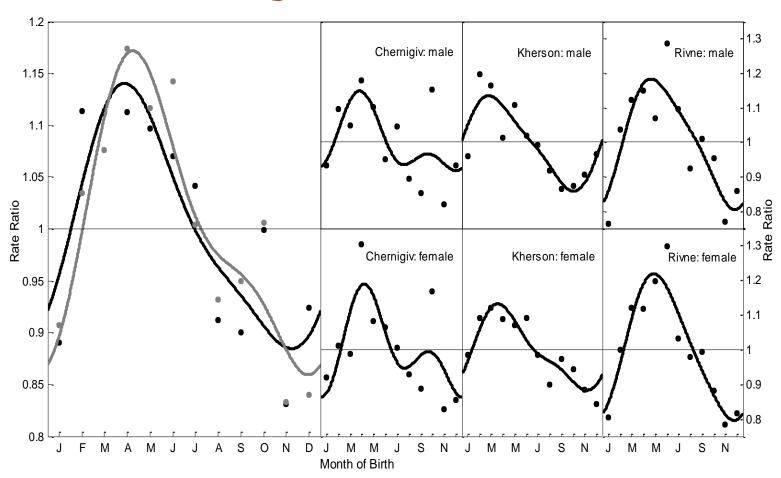
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Seasonality of birth for T2D in Ukraine





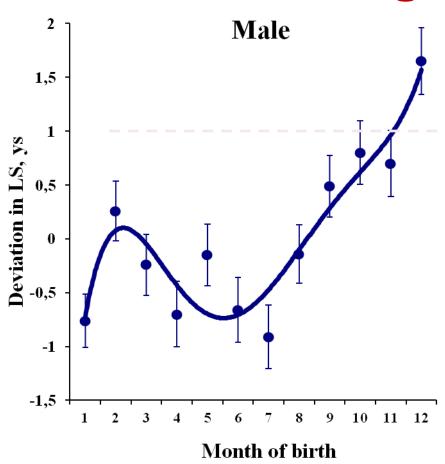
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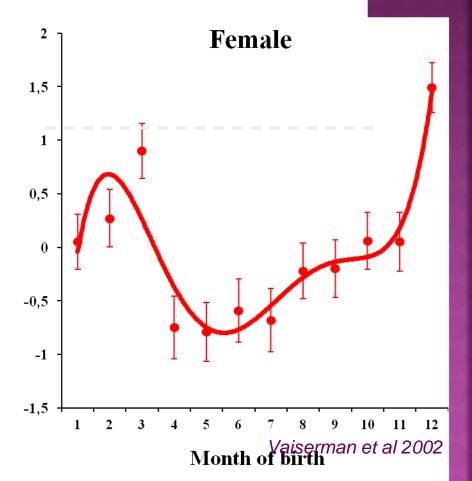
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Seasonal programming of adult longevity in Ukraine







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Aging trajectory:

could it be epigenetically programmed?

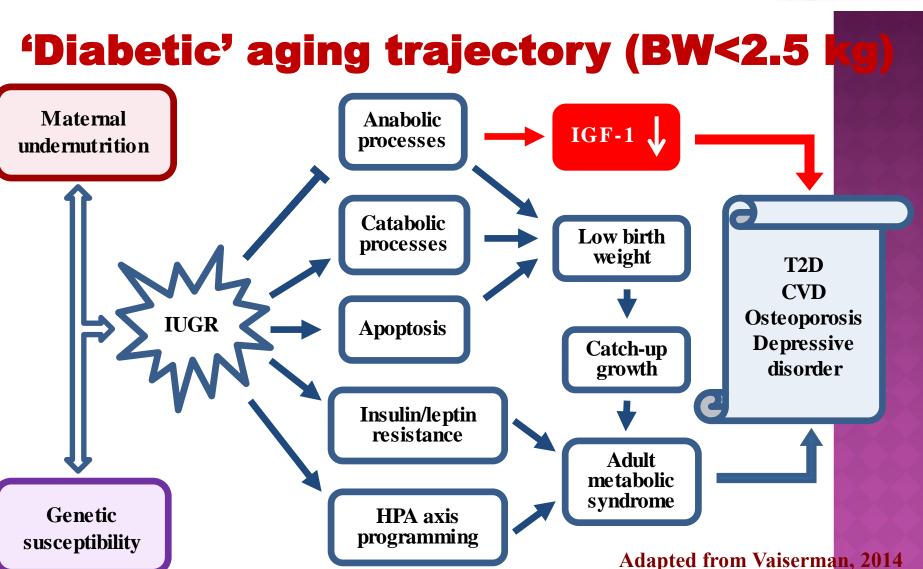


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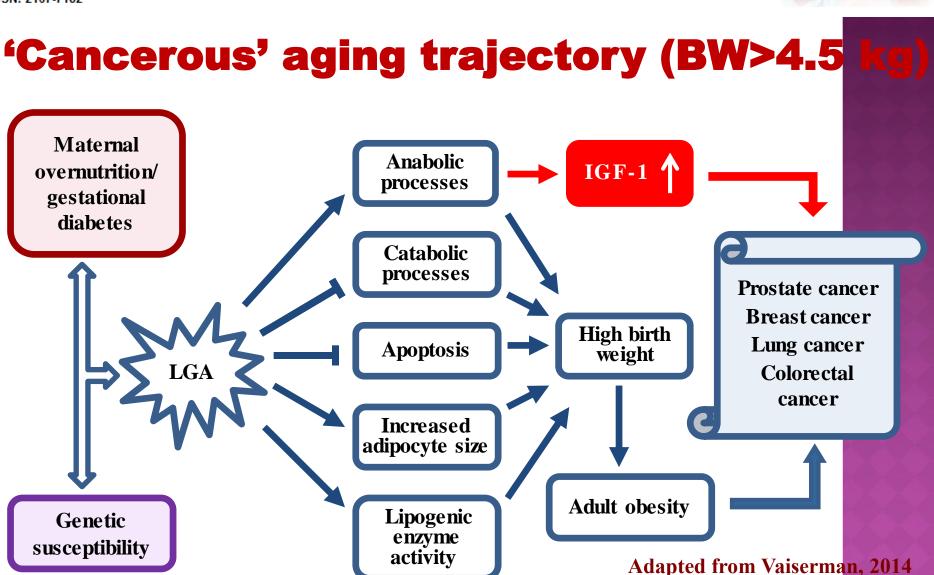


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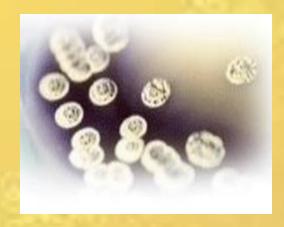
Epigenetic programming of aging trajectories in early life

Alexander Vaiserman,

Institute of Gerontology, Kiev

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