

## Links between the environment, the epigenome and NAFLD: Data from the TARGET II Consortium



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**About this seminar:** Studies of epigenome:environment interactions are identifying new mechanisms by which early life environmental exposures reprogram the developing epigenome to increase susceptibility to diseases later in life, including non-alcoholic fatty liver disease (NAFLD). The TaRGET II (Toxicant Exposures and Responses by Genomic and Epigenomic Regulators of Transcription) Program is conducting epigenomic profiling to understand the impact of early-life environmental exposures on the liver epigenome, and how specific epigenetic alterations induced by these exposures promote development of NAFLD and HCC.

### References:

1. Foulds, C., Trevino, L., York, B. and Walker, C.L. **"Endocrine disruptors and fatty liver disease"** Nat. Rev. Endo. 13: 445-457, 2017. PMID: PMC5761605. .
2. Treviño, L.S., Walker, C.L., et al. **"Epigenome:Environment Interactions Accelerate Epigenomic Aging and Unlock Metabolically Restricted Epigenetic Reprogramming in Adulthood"** Nature Communications 11:2316, 2020 PMID: PMC7210260.
3. Wang, T., Pehrsson, Walker CL, et al. **"The TaRGET II Consortium and Environmental Epigenomics."** Nature Biotechnology, 36: 225-227, 2018.

## OCT 7 • 4:00 PM

<https://tinyurl.com/y5rd2uut>

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