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ACTION Biomarker Study

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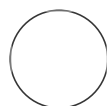
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ABSTRACT

The goal of ACTION project (Aggression in Children: Unraveling gene-environment interplay to inform Treatment and Intervention strategies) was to identify precursors, features, and consequences of childhood aggression using epidemiological and omics-driven studies. A considerable effort within ACTION was the collection of new omics data in children with low and high aggressive behavior. To this end, the ACTION project included large-scale collection of biological samples in children from the Netherlands Twin Register (NTR), a twin cohort from the general population, and a cohort of children referred for psychiatric treatment (LUMC-Curium). Together these cohorts comprise the ACTION Biomarker Study. This documentation describes the study design and data collection for the ACTION Biomarker Study.

ATTACHMENTS

[20230307_ACTION_protocol_v1.pdf](#)

Keywords: childhood aggression, childhood behavior problems, mental health, buccal cells, urine, genetics, epigenetics, DNA methylation, biomarkers, metabolomics, amines, organic acids, steroid hormones, multi-omics