

Supplementary Table 1: Exclusion and inclusion criteria

		Instrument	Actions
A) Demographics	1. Both biological parents are French Canadians (2 generations)	A07f	Inclusion
	2. Both parents are available for providing a blood sample	A07f	Inclusion
	3. There are two siblings in the eligible age range (12 to 18 years)	A07f	Inclusion
	4. Child, parent or grand-parent is adopted	A07f	Exclusion
B) Pregnancy and birth	1. Exposed: Prenatal exposure to maternal cigarette smoking (1 cigarette or more per day) during the 2nd trimester.	A07f	Inclusion
	2. Non-exposed: No maternal cigarette smoking during the following two periods: <ul style="list-style-type: none"> ▪ 12 months before the pregnancy ▪ during pregnancy ▪ during breastfeeding 	A07f	Inclusion
	3. Use of alcohol by the mother during pregnancy	B02f	Exclusion (>210 ml alcohol/week [e.g. 14 bottles of beer, 9 glasses of wine, 7 glasses of hard liquor].
	4. Diabetes of the mother during pregnancy (onset before pregnancy, treated by insulin)	A07f	Exclusion
	5. Premature birth (< 35 weeks) and/or detached placenta	A07f	Exclusion
	6. Multiple births (e.g. twins)	A07f	Exclusion
	7. Hyperbilirubinemia requiring transfusion	A07f	Exclusion

C) Child's medical history	1. Type 1 diabetes	A07f	Exclusion
	2. Systemic rheumatologic disorders (e.g. complications of strep throat, such as glomerulonephritis or endocarditis)	A07f	Exclusion
	3. Malignant tumours requiring chemotherapy (e.g. leukaemia)	A07f	Exclusion
	4. Congenital heart defects or heart surgery	A07f	Exclusion
	5. Aneurysm		Exclusion
D) Neurological conditions	1. Epilepsy 2. Bacterial Infection of CNS 3. Brain tumour	A07f	Exclusion
	4. Head trauma with loss of consciousness >30 minutes	A07f	Exclusion
	5. Muscular dystrophy, myotonic dystrophy	A07f	Exclusion
E) Developmental conditions	1. Nutritional and metabolic diseases (e.g. failure to thrive, phenylketonuria) 2. Major neuro-developmental disorders (e.g. autism)	A07f	Exclusion
	3. Hearing deficit (requiring hearing aid)	A07f	Exclusion
	4. Vision problems (strabismus, visual deficit not correctable)	A07f	Exclusion
F) Mental health & abilities	1. Treatment for schizophrenia, bipolar disorder	A07f	Exclusion
	2. IQ < 70	WISC	Exclusion
	3. Reading ability (< 2 SD)	Woodcock-Johnson	Exclusion
	4. Special education (special classes)	A07f	Exclusion
G) MR contraindications	1. Metal implants	A07f	Exclusion
	2. Electronic implants (e.g. pacemakers)	A07f	Exclusion
	3. Severe claustrophobia	A07f	Exclusion

A07f, Telephone interview; B02f, Medical questionnaire; WISC, Wechsler Intelligence Scale for Children; CNS, Central nervous system; IQ, Intelligence quotient.