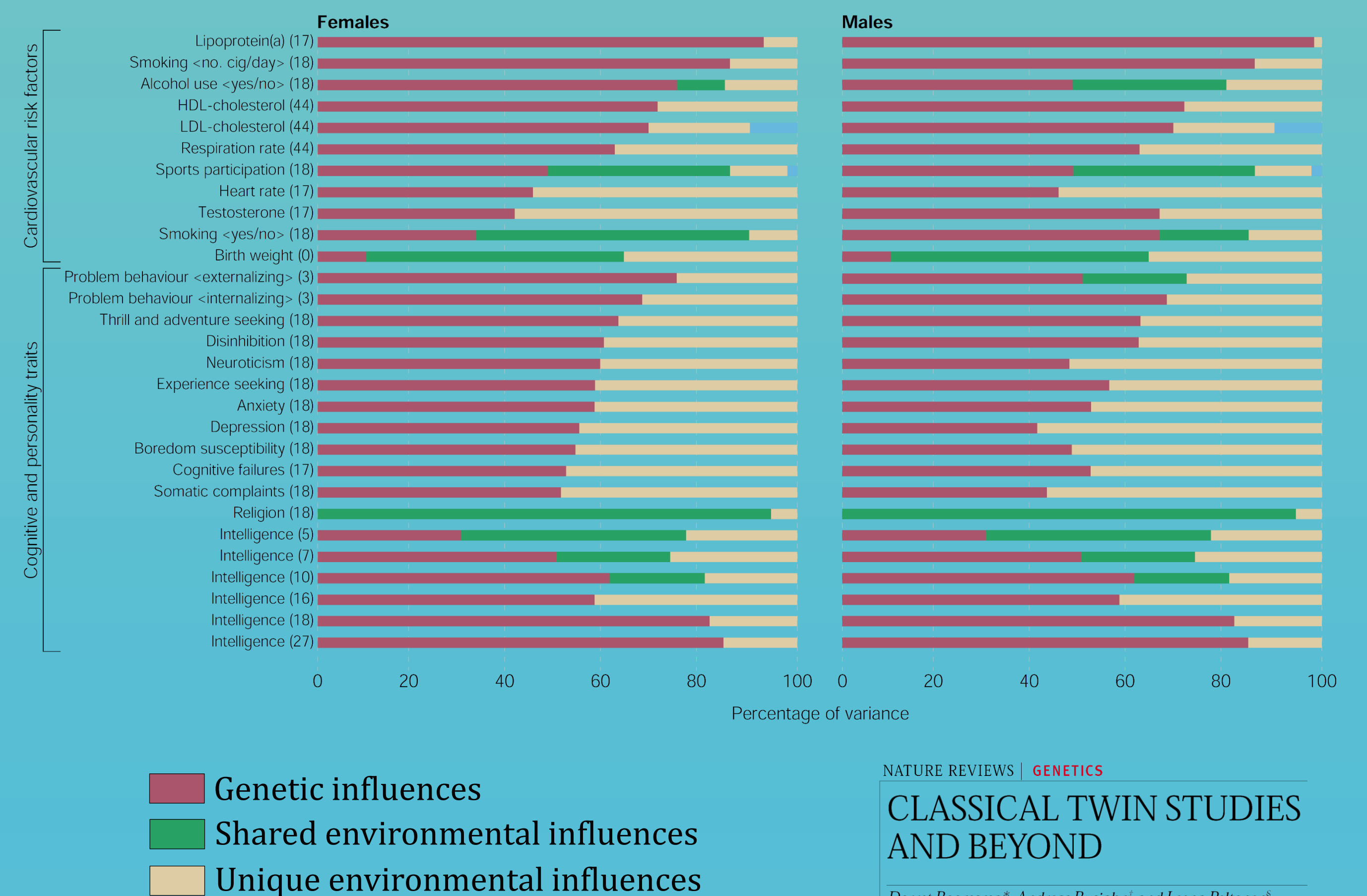
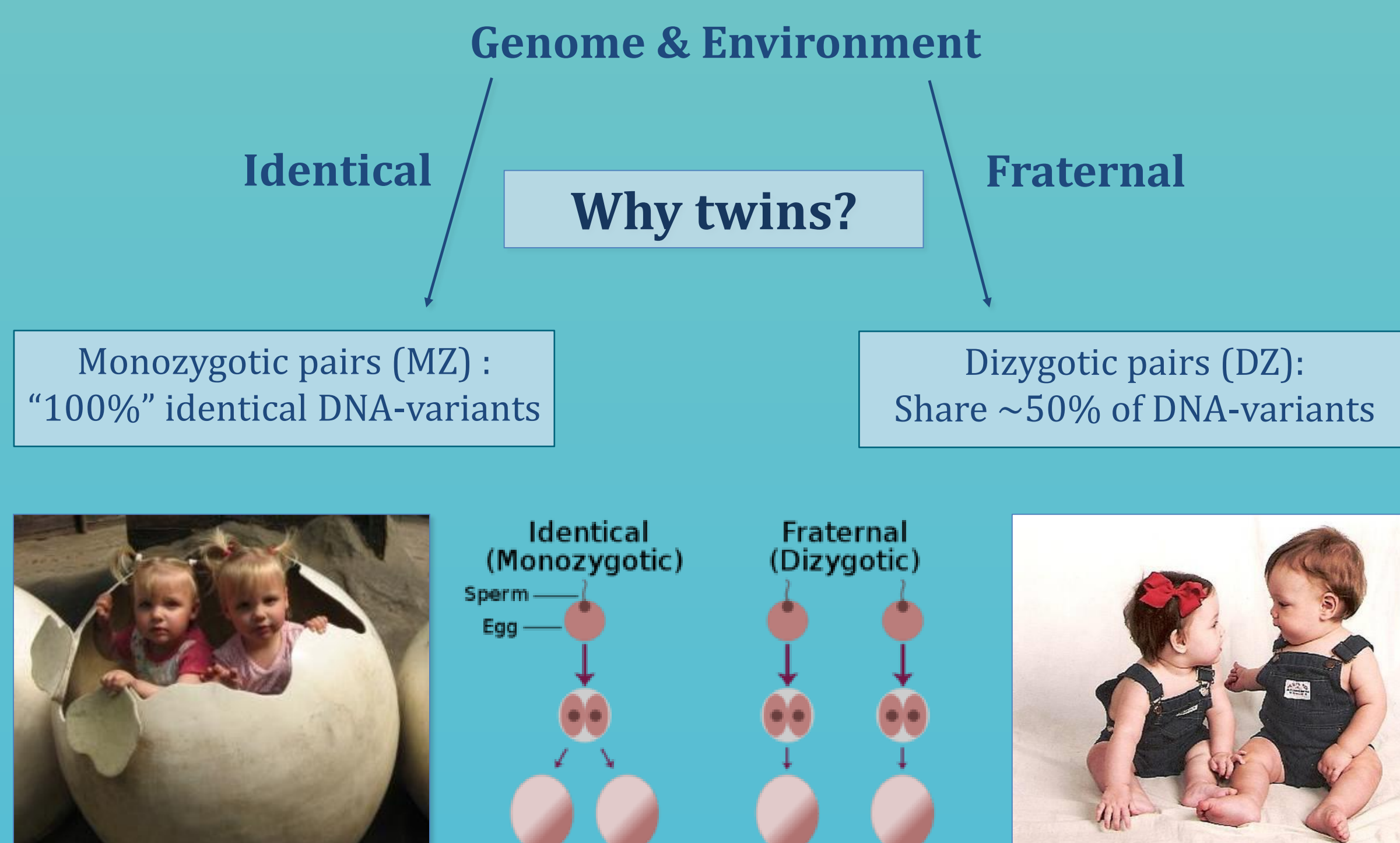


The Netherlands Twin Register (NTR) was founded on February 1st 1987 at the Vrije Universiteit in Amsterdam for the purpose of conducting scientific research. A large number of families with twins are registered with the NTR. These twins are followed from birth in their development. One of the aim of the NTR is to examine the contribution of hereditary predisposition to personality, growth, development, disease and risk factors for disease.

Participants	Active	Total
Twins/multiples	96.584	110.269
Siblings	12.850	15.092
Parents	68.775	117.115
Partners	2559	3290
Offspring	1978	2235
Offspring of siblings	459	533
Teachers	16.610	16.633
Total NTR database	218.410	266.440



Recruitment

The classical twin study compares phenotypic resemblances of MZ and DZ twins. Comparing the resemblance of MZ twins for a trait or disease with the resemblance of DZ twins offers the first estimate of the extent to which genetic variation determines phenotypic variation of that trait.

Data Collection



	Total	Survey	Biobank	ANS	DSM	Cognition	EEG	MRI
Participants	>150,000	147,041	9,991	4,204	2,554	3,766	1,532	1,230
ANTR surveys	41,800	41,800	9,056	3,446	1,938	2,655	1,316	716
YNTR surveys	119,746	119,746	1,048	1,308	1,116	2,057	420	774
DNA (blood/buccal)	18,791	17,322	9,991	4,048	2,106	3,228	1,208	1,148
NTR Biobank	9,991	9,223	9,991	2,365	805	1,491	828	393
GWA Genotyping	12,546	12,096	8,260	1,067	1,545	2,753	946	1,058
DNA methylation	3,025	2,956	3,025	1,057	334	602	389	249
DNA sequencing	367	347	367	60	31	38	12	10
RNA expression	3,370	3,260	3,370	1,270	411	694	488	268
RNA sequencing	1,781	1,743	1,781	641	208	396	259	163
Metabolomics	5,615	5,482	5,615	47	604	922	561	330
Microbiome	276	275	276	1,411	27	39	15	24
ANS-function	4,204	3,871	2,365	4,204	868	2,390	810	520
DSM-IV interview	2,554	2,546	805	868	2,554	357	219	159
Cognition	3,766	3,613	1,491	2,390	357	3,766	1,530	776
EEG	1,532	1,474	828	810	219	1,530	1,532	187
Brain Imaging	1,230	1,174	393	520	159	776	187	1230