

Name	The Rotterdam Study
Description	The Rotterdam study aims to investigate the risk factors of cardiovascular, neurological, ophthalmological and endocrine diseases in elderly.
Location	Ommoord district in Rotterdam
Lead Institute	Erasmus MC
Cohort size	15,000 participants aged 45 and older
Start Cohort	1990
Follow-up	Every 3-4 years 1990 – 1993 1993 - 1995 1997 - 1999 2000 – 2001 2002 – 2004 2004 – 2005 2006 – 2008 2009 – 2011 2011 – 2012 2012 – 2014 2014 – 2015 2015 – 2016
Variables and Measurement methods	<p>Measurements: through questionnaires, measurements at the research centre</p> <p>Variables:</p> <ul style="list-style-type: none"> - Current health status - Medical history - Smoking habits - Socio-economic status - Current drug use(ATC-classification) - Use of medical facilities - Dietary habits - Alcohol consumption - Physical activity <p><u>Measurements</u></p> <ul style="list-style-type: none"> - Cognitive function - Indicators for Parkinson's disease - Dual Energy X-ray - Absorptiometry (bone mineral density) - X-rays of hands - Thoraco-lumbar spine - Hips and knees - Ophthalmologic examination - Ultrasound assessment of cardiac dimensions - Diameter of the abdominal aorta - Carotid arterial wall thickness and plaque thickness - ECG - Blood pressure (brachial artery, posterior tibial artery) - Anthropometry - Limited physical examination - Venous blood sample - Glucose tolerance test

Availability and Type of -omic data	<p>GWAS SNP (N = 11,502)</p> <p>Exome array (N = 3,183)</p> <p>Whole-exome Seq (N = 3,778)</p> <p>Whole- genome Seq (WGS) (N = 96)</p> <p>Genome-wide expression (array) (N = 881)</p> <p>Genome-wide expression (RNA-Seq) (N = 829)</p> <p>Genome-wide DNA methylation (N = 1,600)</p> <p>Gone-wide microRNA profiling (N = 2,750)</p> <p>Serum protein profile (N = 9,820)</p> <p>Proteomics (N = 3,596)</p> <p>Metabolomics untargeted (N = 1,826)</p> <p>Metabolomics targeted (Nightingale platform) (N = 5,381)</p> <p>Metabolomics targeted (Metabolon platform) (N = 488)</p> <p>Gut microbiome (16S rRNA) (N = 2,000)</p> <p>Mitochondrial DNA (PCR) (N = 500)</p> <p>Telomer length (PCR) (N = 1,800)</p>
Design paper	Hofman et al., 2013
Website	www.epib.nl/research/ergo.htm