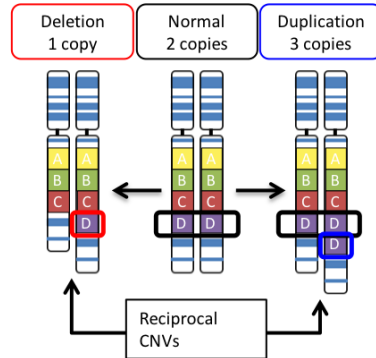


# The ENIGMA-CNV working group, 2<sup>nd</sup> wave

troenderbrain  
osaka  
sydney  
mas  
ahus  
epigen  
dublin  
sys  
lifespan  
big  
echodefine  
hubin  
top  
demgene  
pafip  
gq  
tim  
haavik  
nesda  
gobs  
o  
imagen  
hunt  
16p112  
european  
consortium  
ncng  
ping  
ntr  
cobre  
betula  
stroke  
mri  
1000  
brains  
epigen  
london  
brain  
scale  
mcic

## Copy number variant:

-high risk, disease (somatic+psychiatric)



## Challenges:

**Genetics:** Low frequency, different SNP arrays

**Imaging:** Different scanner sites

## Aim

identify CNVs with influence on brain structures



**Better understanding**  
brain development & pathologies

## 1<sup>st</sup> wave (-2020)

~17,000 individuals (37 ENIGMA samples) supplemented with UK biobank

**4 publications:** Brain structural effects of [16p11.2 distal](#) (*Mol Psych*), [1q21.1 distal](#) (*Trans Psych*) and [15q11.2](#) (*JAMA Psych*) CNVs + 1 [review](#) (*HBM*, with ENIGMA-22q11)

## 2<sup>nd</sup> wave launch (2022-)

-Targeting a wider range of CNVs & broader range of brain measures

## Requirements

-item-level CNVs (genetic data), imaging data (starting with FreeSurfer-derived), covariates, both population+disease groups welcome

MEGA-ANALYSIS



Protocols: <https://github.com/ENIGMA-git/ENIGMA-CNV>

Help available for analysts. Data sharing agreements if necessary

## To join:

Contact ENIGMA-CNV chairs:

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