Most people have 23 pairs of chromosomes, for understanding the edge region. Chromosomes come from your mom & dad.

Chromosome 15q11.2–13.1 duplication:
--autism, speech delay.
- More paternal copies cause different syndromes than above.

Features: developmental delay, learning difficulties, autism, ADHD.

Chromosome 15q13.3 duplication:
- Poor muscle tone, seizures, motor and language delay.
- More maternal copies:
  - Autism
  - Speech delay.

Features: Developmental delay, speech and language delay.

Chromosome 15q22.1:
- Extra maternal information:
  - Developmental delay, happy personality
  - Extra maternal information:
    - 5q
    - 5p

Chromosome 15q22.2:
- Missing maternal information:
  - Developmental delay, extra maternal information.

This is called a Copy Number Variant or CNV. Does the number of copies matter?

Some people have one thing in common:
- 5q23
- 15q23

Although technically these names are different, they can all be caused by a deletion or duplication of the 15q11.2-13.1 region.

Images of chromosomes have stripes and regions.

This may have different names, like 15q11.1.

Some people have deletions and duplications.

Intramolecular (within a chromosome):
- 5q21
- 5p21

Intermolecular (in other chromosomes): 15q24.

Related to the PWACR, changes in chromosome 15q11.2-13.1?

Coping with CNVs:
- Towing the middle road:
  - Not to extremes

Genetic counseling may be important genes in chromosome 15q27.

Chromosomes have stripes and regions. From the number of copies matter?}

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