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### Zytogenetik

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Der Laborbereich ist akkreditiert  
nach DIN EN ISO 15189.

Jena, 09.12.2021

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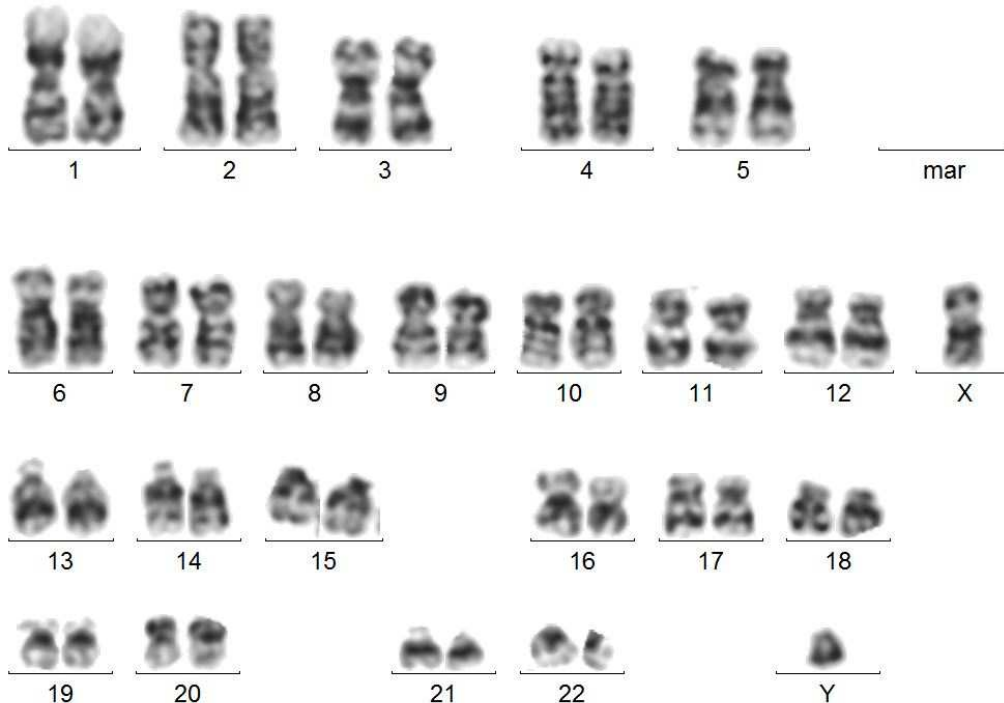
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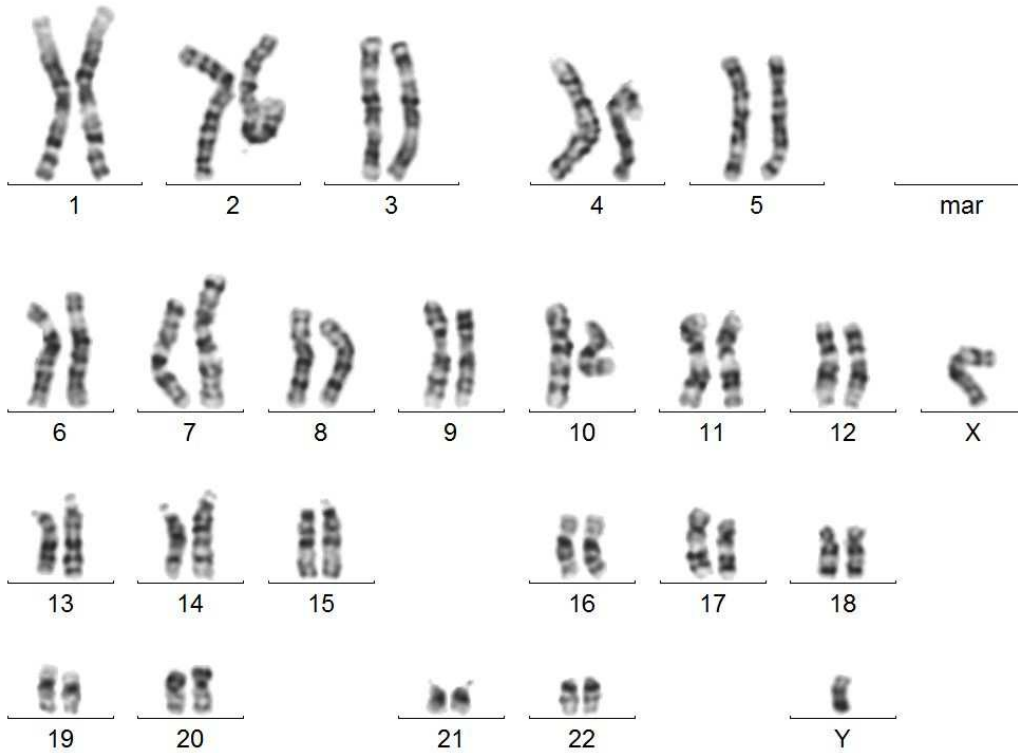
### Conventional karyotyping of ES/IPS cell lines

**General remarks:** The analysis is done on GTG stained metaphase preparations with a mean resolution of 200-300 bands per haploid chromosome set (comparable to human bone marrow quality), submicroscopic changes (microdeletions/microduplications) and changes smaller than 10 Mb cannot be excluded by this method, higher resolution and number of cells that can be analysed is possible by adding FISH or arrayCGH, also mosaicism is only detected and mentioned in the karyotype formula if same chromosomal losses appear  $\geq 3$  times or same structural aberrations and gains are observed  $\geq 2$  times. The karyotype formula is given according to ISCN 2016 and indicated as composite karyotype [cp20] reflecting the sum of 20 metaphases analysed. A representative karyogram is provided for every cell line analysed. The position mar in the karyogram is reserved for unassigned chromosomes e.g. if they are too small or structurally altered with no direct similarity to chromosomes 1-22, X and Y.

### BASH C#1; karyotype: 46,XY[cp20]



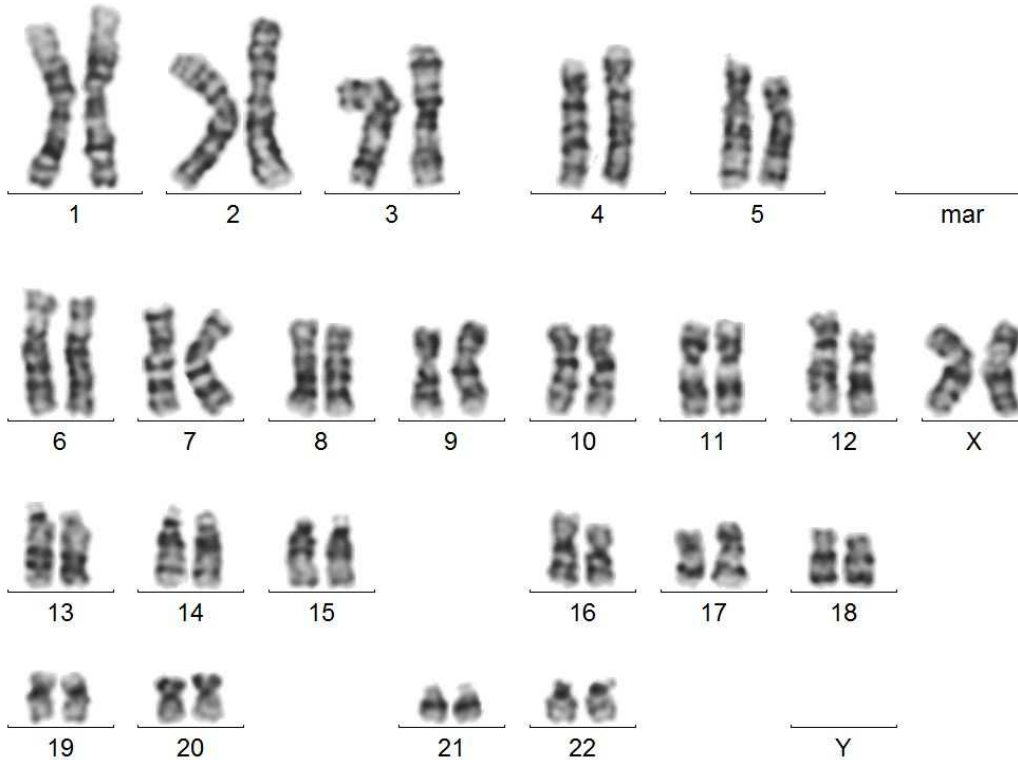
**BASH C#2; karyotype: 46,XY[cp20]**



Q-E20211119-2 Δ 023 ▽ Δ A ▽ 46,XY

46

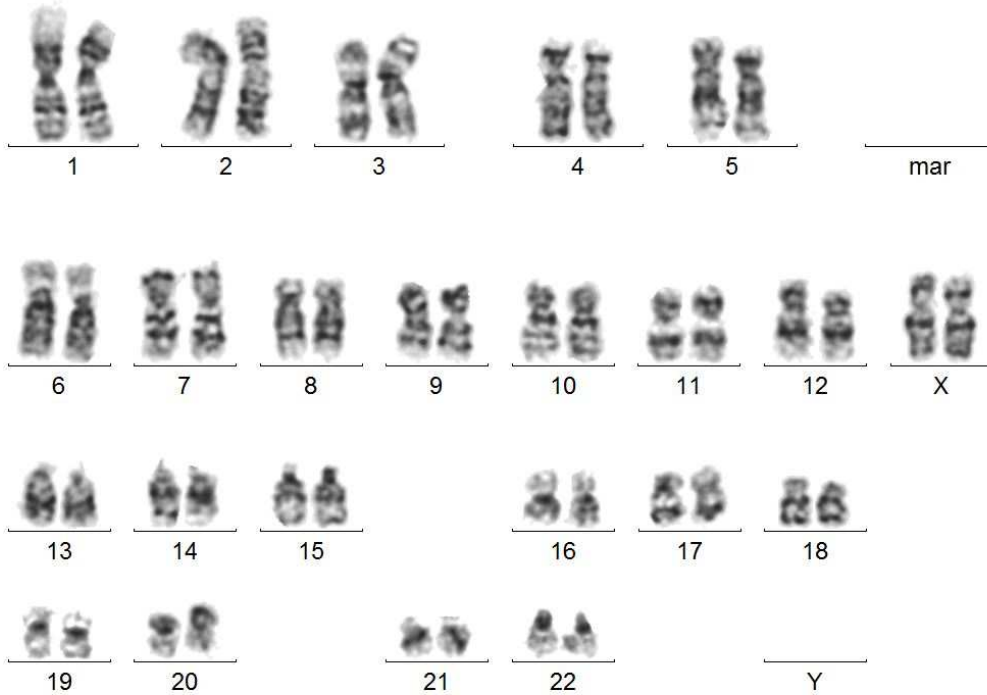
**HAY C#1; karyotype: 46,XX[cp20]**



Q-E20211119-3 Δ 118 ▽ Δ A ▽

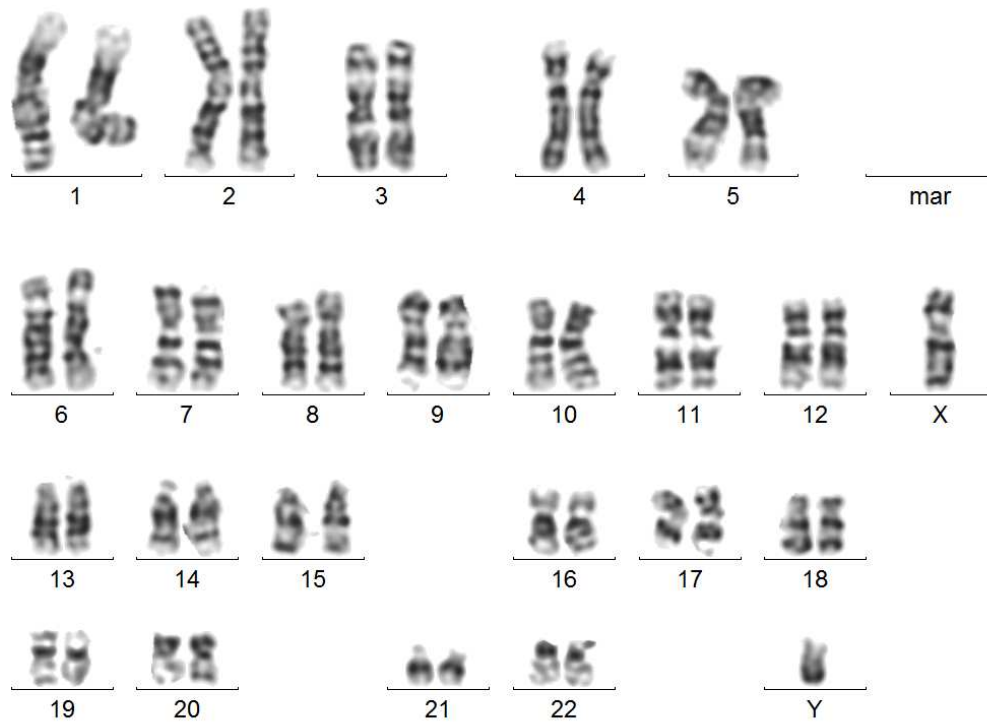
46

**HAY C#2; karyotype: 46,XX[cp20]**



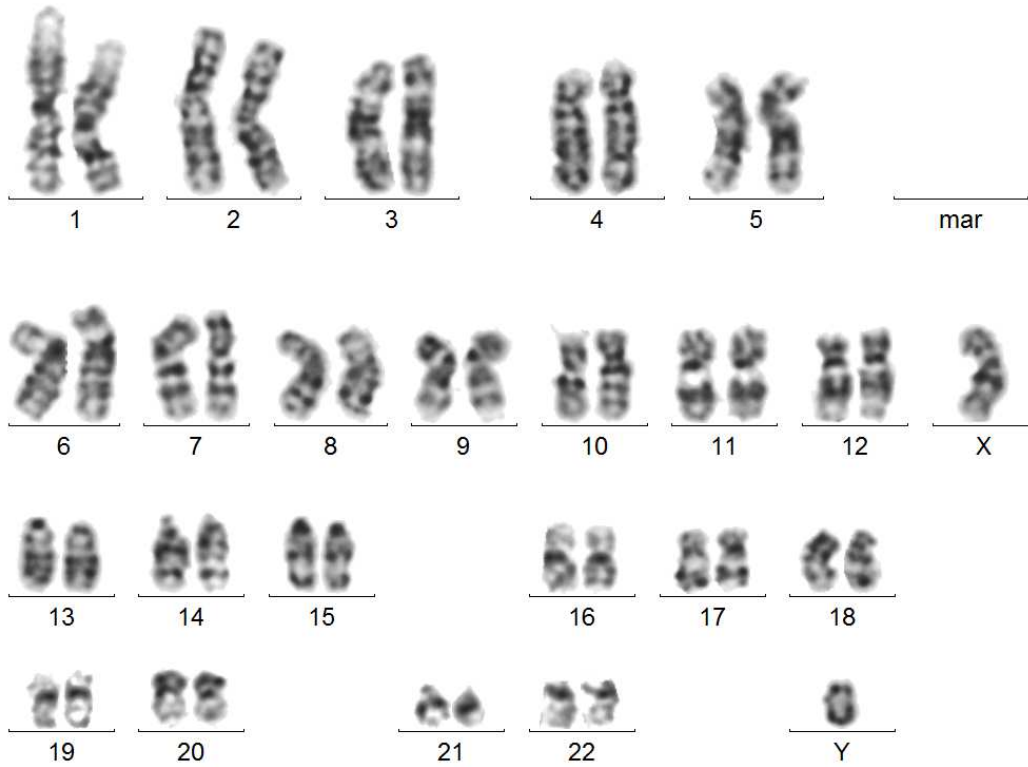
Q-E20211119-4  134     46,XX 46

**ABD C#1; karyotype: 46,XY[cp20]**



Q-E20211119-5  023     46,XY 46

**ABD C#2; karyotype: 46,XY[cp20]**



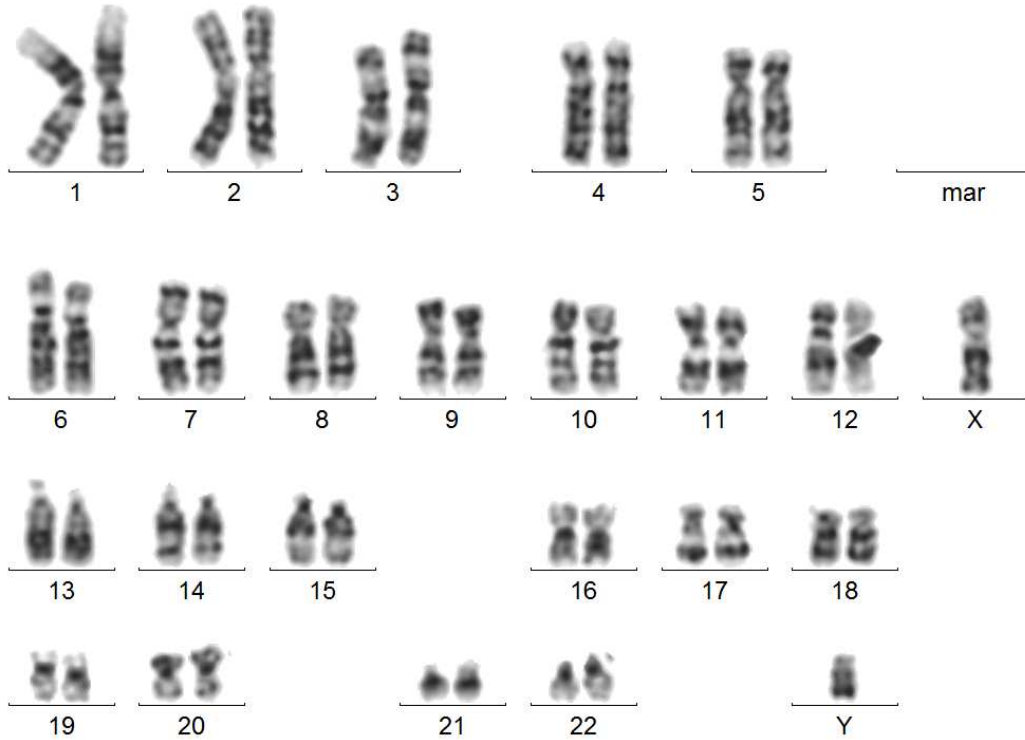
Q-E20211119-6  004  A  46,XY 46

**YOU C#1; karyotype: 46,XY[cp20]**



Q-E20211119-7  052  A  46,XY 46

**YOU C#2; karyotype: 46,XY[cp20]**



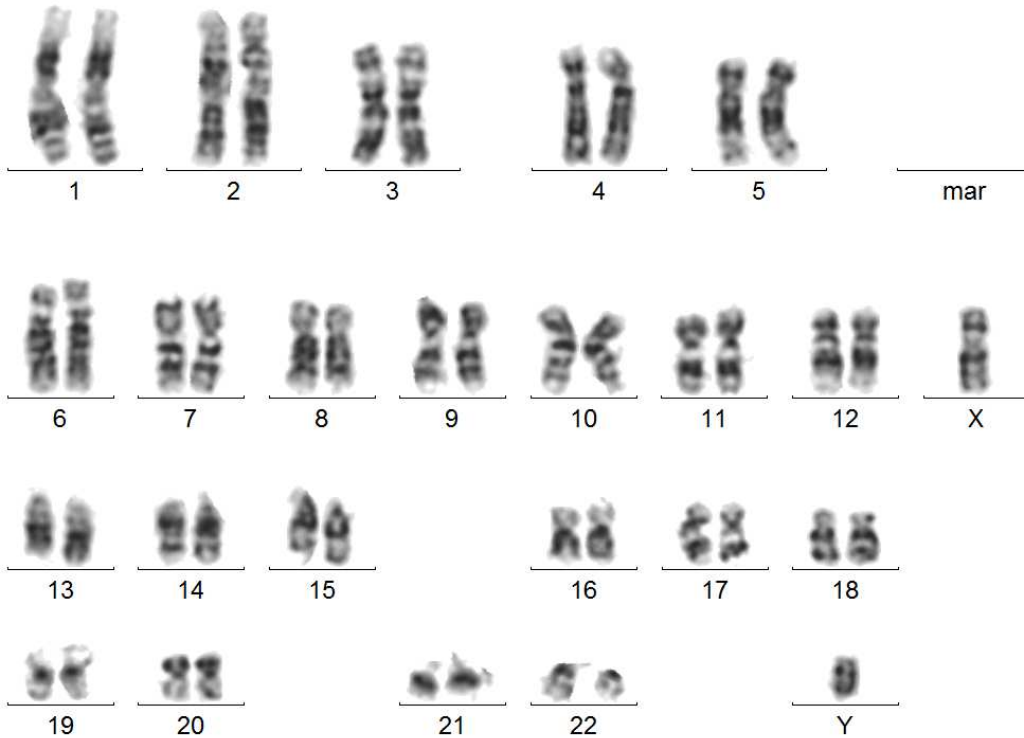
Q-E20211119-8  064     46,XY 46

**ZAK C#1; karyotype: 46,XY[cp20]**



Q-E20211119-9  011     46,XY 46

ZAK C#2; karyotype: 46,XY[cp20]



Q-E20211119-10  $\Delta$  116  $\nabla$   $\Delta$  A  $\nabla$  46,XY 46

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