

## CELL Quality Control Report: Karyotyping analysis

Ref of QCR: iPS W11P47\_QCR-K\_v0.1\_230503\_LK

### 1. EXPERIMENTAL INFORMATION

- Team / Project title: Génomique et physiopathologie des maladies cardiovasculaires (U1166-ICAN) / Projet EHT-CAVD
- Provider name: BOBIN Pierre
- Comments: human iPS cell line karyotype integrity validation
- Fixation and hypotonic choc were performed by Lina El Kassar

#### 1.1. Cells information

| Type of QC | Cell type | N° of differentiation | Passage | Derived from: |         | Date of QC (YYMMDD) | Investigator initials |
|------------|-----------|-----------------------|---------|---------------|---------|---------------------|-----------------------|
|            |           |                       |         | Cell          | Passage |                     |                       |
| Karyotype  | iPS : W11 |                       | P47     | iPS 3.3       | P24     | <b>230503</b>       | LK                    |

- Date of freezing: NA
- Date of thawing : NA
- If iPSC, reprogramming method: reprogramming method: Episomal vectors (Okita *et al*, 2011) used on dermal fibroblasts to generate the 3.3 line.
- Specie of cells: Human

#### 1.2. Culture conditions

- Culture medium: mTeSR1®
- Matrix or feeder type: Matrigel®
- Dissociation method: Gentle Cell Dissociation Reagent®
- If relevant, seeding conditions (dilution, density, ...):
- Culture with or without antibiotic, if yes which one: Without
- If feeder free adapted hPSC culture, for how many passage pN+X: None
- If differentiated cells, give culture conditions and cells information of hPSC: None

#### 1.3. Test conditions

- Performed:  Prior freezing     After thawing     Not applicable

*If Not applicable, please comment here:*

### 2. ANALYSIS

- Analysis conformity:
  - The karyotyping has been completed according to:
    - G-Banding (Instruction 4ITec0040) + R-Banding
      - Yes     No
    - mFISH (Instruction 4ITec0214)

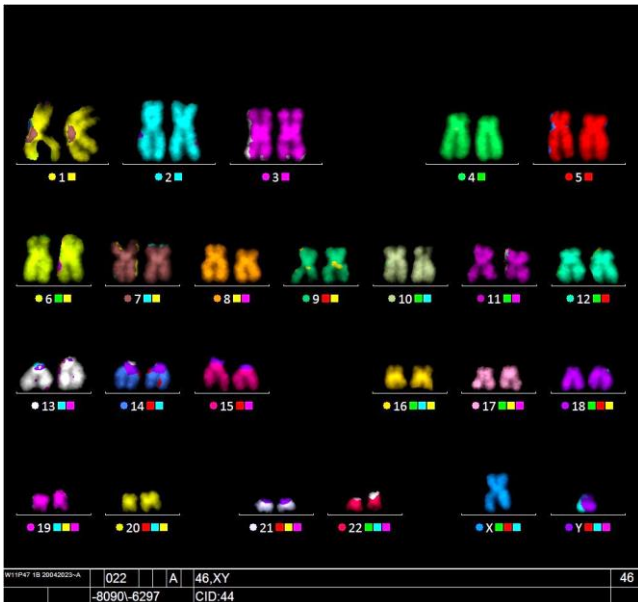
## CELL Quality Control Report: Karyotyping analysis

Yes     No

- Karyotype conformity:  
 Number of analyzed cells: 50  
 Number of karyotyped cells: 6  
 Results (number of chromosome and sex of cell line): 46,XY

### 3. INTERPRETATION

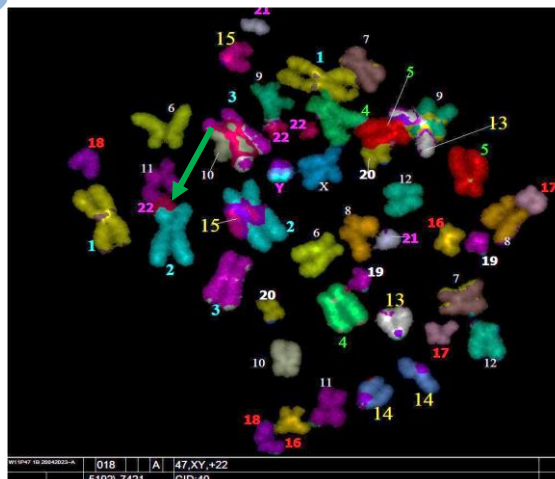
The cell karyotyping is therefore:     Normal     Abnormal



### 4. COMMENTS

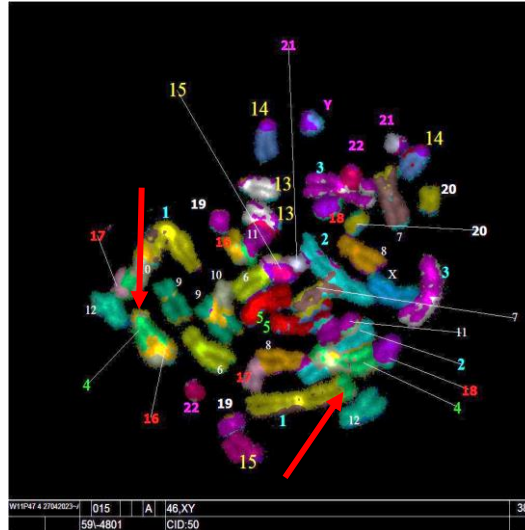
#### 4.1. Investigator comments

- One metaphase is 47,XY,+22 (green arrow). Chromosome 22 was checked in 49 metaphases. This anomaly is not significant.



## CELL Quality Control Report: Karyotyping analysis

- One metaphase is **46, XY,t(1;4)**, (red arrows)). Chromosome 1 and chromosome 4 were checked in 49 metaphases. This anomaly is not significant.



### 4.2. Reviewer comments

*None*

Checked and interpreted by: Lina El Kassar  
Date: 230503  
Signature: LK