Thaw and Culture Details

Cell Line Name	**CBiPS-6.13-PCBC**
WiCell Lot Number	**DB66961**
Provider	Johns Hopkins University - Dr. Elias Zambidis
Banked By	National Heart, Lung and Blood Institute Progenitor Cell Biology Consortium (NHLBI PCBC)
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results. The Provider recommends only dispase passaging.
Culture Platform	Feeder Independent
	Medium: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR™1 Protocol
Passage Number	p27 These cells were cultured for 26 passages prior to freeze. The Provider adds +1 to the passage number at freeze to best represent what the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 27.
Date Vialed	15-December-2014
Vial Label	SC11-010 p.27+15 15Dec2014 RAS
Biosafety and Use Information	Appropriate biosafety precautions should be followed when working with these cells. The end user is responsible for ensuring that the cells are handled and stored in an appropriate manner. WiCell is not responsible for damages or injuries that may result from the use of these cells. Cells distributed by WiCell are intended for research purposes only and are not intended for use in humans.

Testing Performed by WiCell

Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	Recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines STR profile of deposited cell line	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-CH-044	Negative	Pass

Testing Reported by Provider

The Provider stated that some or all of the additional analyses listed below may have been performed for this cell line. For more information, publication and Synapse links, where available, are provided on the cell line specific web page on the WiCell website.

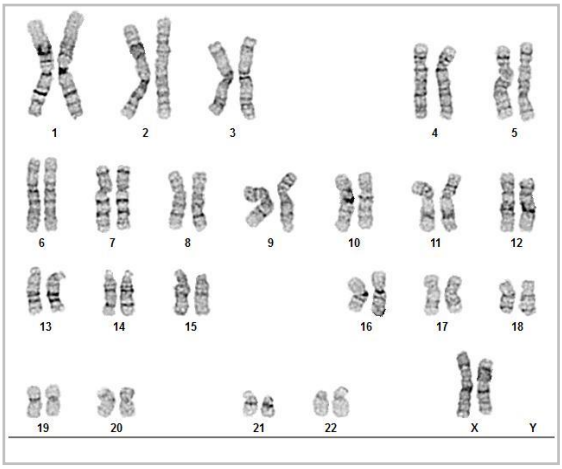
- RNA-Seq
- Teratoma representative of all three embryonic germ layers identified in all tumors with histopathological analysis
- SNP microarray
- Immunostaining analysis to confirm pluripotency and OCT4 to evaluate the presence of undifferentiated PSC
- mRNA, miRNA, and methylation profiling
- Genemoics characterization
- Flow Cytometry (SSEA-1, SSEA-4, Tra 1-61,Tra 1-80, CD9, OCT-4)

Approval Date	Quality Assurance Approval
02-July-2019	7/10/2020 X AA AA Quality Assurance Signed by: Arntz, Andy

Chromosome Analysis Report: 076855

Date Reported: Tuesday, June 04, 2019
Cell Line: CBiPS-6.13-DB66961 14680
Passage#: 29
Date of Sample: 5/22/2019
Specimen: Human IPS
Results: 46,XX

Cell Line Sex: Female
Reason for Testing: lot release testing
Investigator: [redacted], WiCell



Cell: 26
Slide: G01
Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 9
Total Karyogrammed: 4
Band Resolution: 475 - 550

Interpretation:
This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.

Completed by: [redacted], CG(ASCP)
Reviewed and Interpreted by: [redacted] PhD, FACMG

Date:_____ **Sent By:**____ **Sent To:**_____ **QC Review By:** ____

Limitations: This assay allows for microscopic visualization of numerical and structural chromosome abnormalities. The size of structural abnormality that can be detected is >3-10Mb, dependent upon the G-band resolution obtained from this specimen. For the purposes of this report, band level is defined as the number of G-bands per haploid genome. It is documented here as "band level", i.e., the range of bands determined from the four karyograms in this assay. Detection of heterogeneity of clonal cell populations in this specimen (i.e.,mosaicism) is limited by the number of metaphase cells examined, documented here as "# of cells counted".

Short Tandem Repeat Analysis

TRIPath
HISTOLOGY - IHC - MOLECULAR - IMAGING
Department of Pathology and Laboratory Medicine
TRIP Laboratory (Molecular)
https://research.pathology.wisc.edu/trip-home/
(608) 265-9168

WiCell
Your Lab Partner
characterization@wicell.org
(608) 316-4145

Sample Report:
14680-STR
Sample Name on Tube: 14680-STR
54.2 ng/µL, (A260/280=2.02)
Sample Type: Cells
Cell Count: ~2 million cells

Requestor:
WiCell Research Institute
Quality Assurance Department

Receive Date: 05/28/19
Report Sent: 05/31/19
Assay Date: 05/29/19
File Name: STR 190530 WMR
Report Date: 05/30/19

STR Locus	STR Genotype Repeat #	STR Genotype
FGA	16–18,18.2,19,19.2,20,20.2,21,21.2,22, 22.2, 23, 23.2, 24, 24.2, 25, 25.2, 26–30, 31.2, 43.2, 44.2,45.2, 46.2	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact WiCell's Technical Support.
TPOX	6-13	
D8S1179	7-18	
vWA	10-22	
Amelogenin	X,Y	
Penta_D	2.2, 3.2, 5, 7-17	
CSF1PO	6-15	
D16S539	5, 8-15	
D7S820	6-14	
D13S317	7-15	
D5S818	7-16	
Penta_E	5-24	
D18S51	8-10, 10.2, 11-13, 13.2, 14-27	
D21S11	24,24.2,25,25.2,26-28,28.2,29,29.2, 30, 30.2,31, 31.2,32,32.2,33,33.2, 34,34.2,35,35.2,36-38	
TH01	4-9,9.3,10-11,13.3	
D3S1358	12-20	

Results: **Based on the 14680-STR cells submitted by WiCell QA dated and received on 05/28/19, this sample (Label on Tube: 14680-STR) defines the STR profile of the human cell line CBiPS-6.13 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.**

Interpretation: **No STR polymorphisms other than those corresponding to the human CBiPS-6.13 cell line were detected and the concentration of DNA required to achieve an acceptable STR genotype (signal/ noise) was equivalent to that required for the standard procedure (~1 ng/amplification reaction) from human genomic DNA. This result suggests that the 14680-STR sample submitted corresponds to the CBiPS-6.13 cell line and was not contaminated with any other human cells or a significant amount of mouse feeder layer cells.**

Sensitivity: **Sensitivity limits for detection of STR polymorphisms unique to either this or other human cell lines is ~2-5%.**

X *RMB* **Digitally Signed on 05/31/19**

[redacted], *BA*
TRIP Laboratory, Molecular

X *WMR* **Digitally Signed on 05/31/19**

[redacted] *PhD, Director / Co-Director*
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report

STERIS

WiCell
504 S Rosa Road, Rm 101
Madison, WI 53719

SAMPLE #:	19052193
DATE RECEIVED:	23-May-19
TEST INITIATED:	03-Jun-19
TEST COMPLETED:	17-Jun-19

SAMPLE NAME / DESCRIPTION:			
	STAN011i-123-1	DB31129	14728
	STAN012i-123-2	DB31135	14729
	MCW066i-U2368	WB67169	14730
	MCW049i-40001630	WB67173	14731
	MCW083i-40000695	WB67174	14732
	MCW092i-U2390	WB67175	14733
	MCW094i-U7120	WB67177	14734
	MCW095i-U2311	WB67185	14735
	MCW088i-40000442	WB67186	14736
	MCW089i-40000312	WB67187	14737
	MCW080i-U2236	WB67188	14738
	CBiPS-6.2	DB66959	14739
	CBiPS-19.11	DB66960	14740
	CBiPS-6.13	DB66961	14741
	CBiPS-E12C1	DB66962	14742
	CBiPS-E17C6	DB66963	14743
	CBiPS-LZ6-1	DB66976	14744
	CBiPS-LZ6-2	DB66977	14745
	CBiPS-LZ6-12	DB66978	14746
	Sendai-9-1	DB66967	14747
	CBiPS-LZ6+3	DB66979	14748
	029 iPS clone 4	DB66975	14749
	retro-20.1	DB66966	14750
	NiPSC	DB66965	14751
	SCRP2101i	DB42034	14752
	SCRP2115i	DB42040	14753
	SCRP2208i	DB42043	14754*
UNIQUE IDENTIFIER:	NA		

Native Product Sterility Report

STERIS

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
30	0	2 Negatives

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
30	TSB	40	20-25	14
30	FTG	40	30-35	14

REFERENCE: Processed according to LAB-003: Sterility Test Procedure

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: Sample #19052193

"Reported as" per packing slip

*SCRP2210i	DB42046	14755
SCRP2305i	DB42054	14756
WC044i-IVF15-36	WB67190	14757

REVIEWED BY _____ DATE 20JUN19

Specific test results may not be indicative of the characteristics of any other samples from the same lot or similar lots. This test report shall not be reproduced, except in full, without prior written approval. Liability is limited to the costs of the tests.Results applied to samples as received.

Mycoplasma Assay Report

PCR-based assay performed by WiCell

Lot Release Testing

20May19

#	Sample Name	Result	Comments/Suggestions
1	CBiPS-6.13-DB66961 14680	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
2	Positive (+) Control	Positive	
3	Negative (-) Control	Negative	

Reported by: Katie Remondini, Cell Culture Specialist
Reviewed by: Sondra Minter, Cell Culture Specialist
Date:_____ Sent By:____ Sent To_____

A gel image is available upon request.

Testing Reported by Provider

The testing reports following this placeholder are described on the certificate of analysis found in the beginning of this packet.

TISSUE CHROMOSOME ANALYSIS FINAL REPORT

99041722
TS-11-00421 10/17/11 -B, RT/RT
17OCT11 1258
.TS CHRON .SOLID TIS
STERILE CUP (CH2) DO NOT ADD FORMALIN CYTOGENETICS

Collection Date and Time: 10/17/2011 12:58 PM
Laboratory Accession #: TS-11-00421
Ordering Physician: Chris Mayhew
Received Date and Time: 10/18/2011 12:58 PM
Hospital # / Location: CCHMC

INTERPRETATION: NORMAL

G-BANDED KARYOTYPE: 46,XX

INDICATIONS: Stem Cell Research
SPECIMEN INFORMATION: Induced Pluripotent Stem Cells

GROWTH TIME: 1 day(s)
MODAL CHROMOSOME # : 46
# of cells COUNTED : 20
# of cells SCORED : 0
# of cells ANALYZED : 5
# of KARYOTYPES : 2
GTG Band Resolution: 525
Quality: Good

TECHNICIAN(S): BIRF3N BIRF3N
DATE ANALYZED: 10/24/2011 12:17 PM

COMMENTS:

SUMMARY: A normal female karyotype of 46,XX. No chromosomal abnormality was demonstrable at this level of resolution.

10/24/11

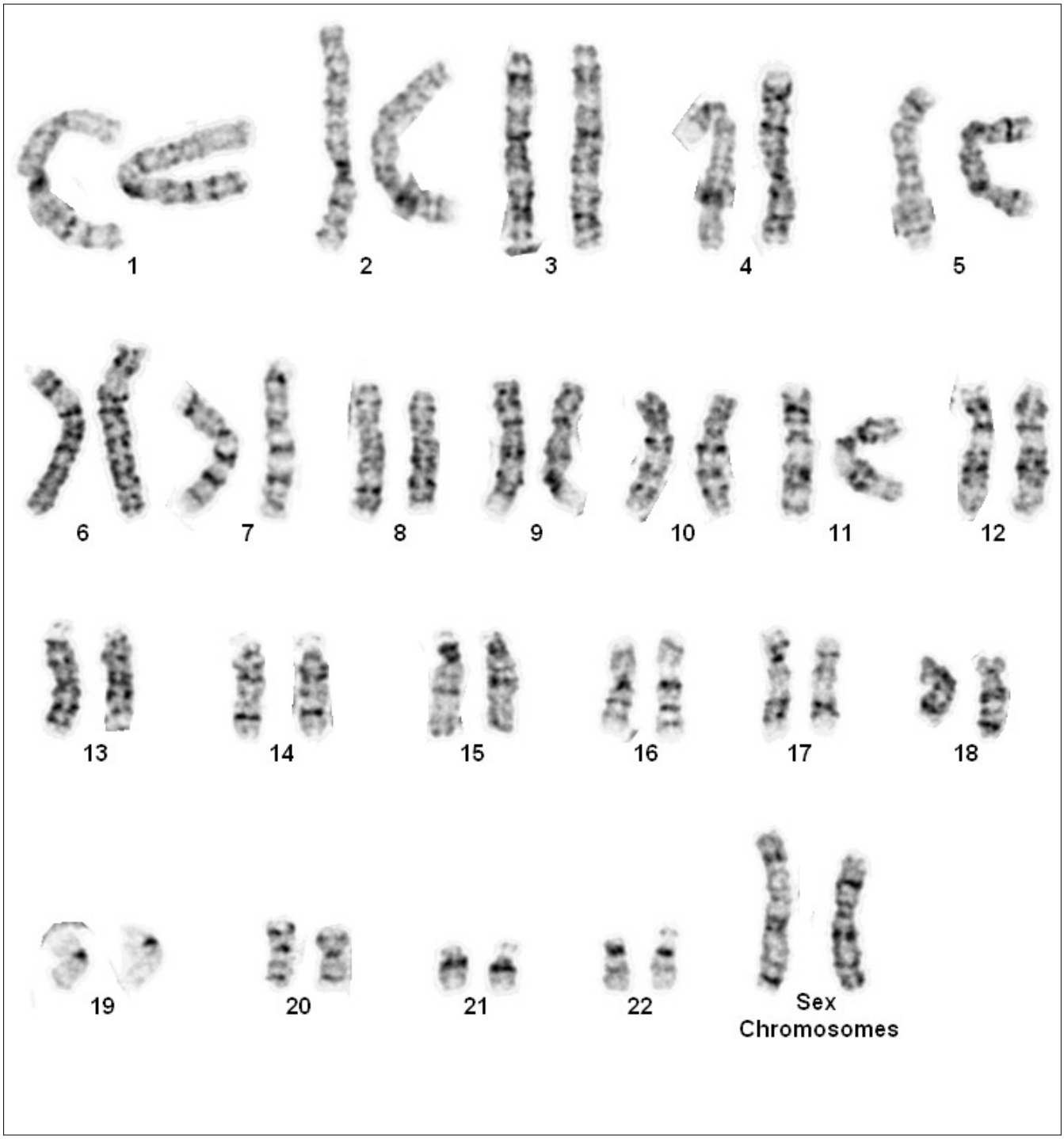
Children's Hospital Medical Center
Cincinnati, Ohio

Case: TS-11-00421 Slide: 1 Cell: 118x8.4

Patient name: 10/17/11- B

Date: 10/18/2011 Result: 46,XX

Children's Hospital Medical Center
Cincinnati, Ohio



Case: TS-11-00421 Slide: 4 Cell: 97x14.1

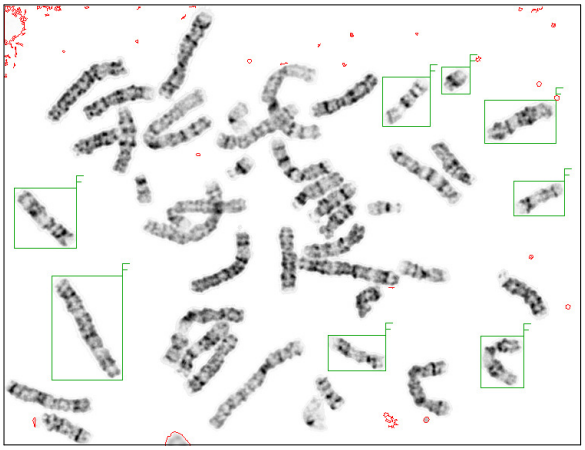
Patient name: 10/17/11- B

Date of birth:

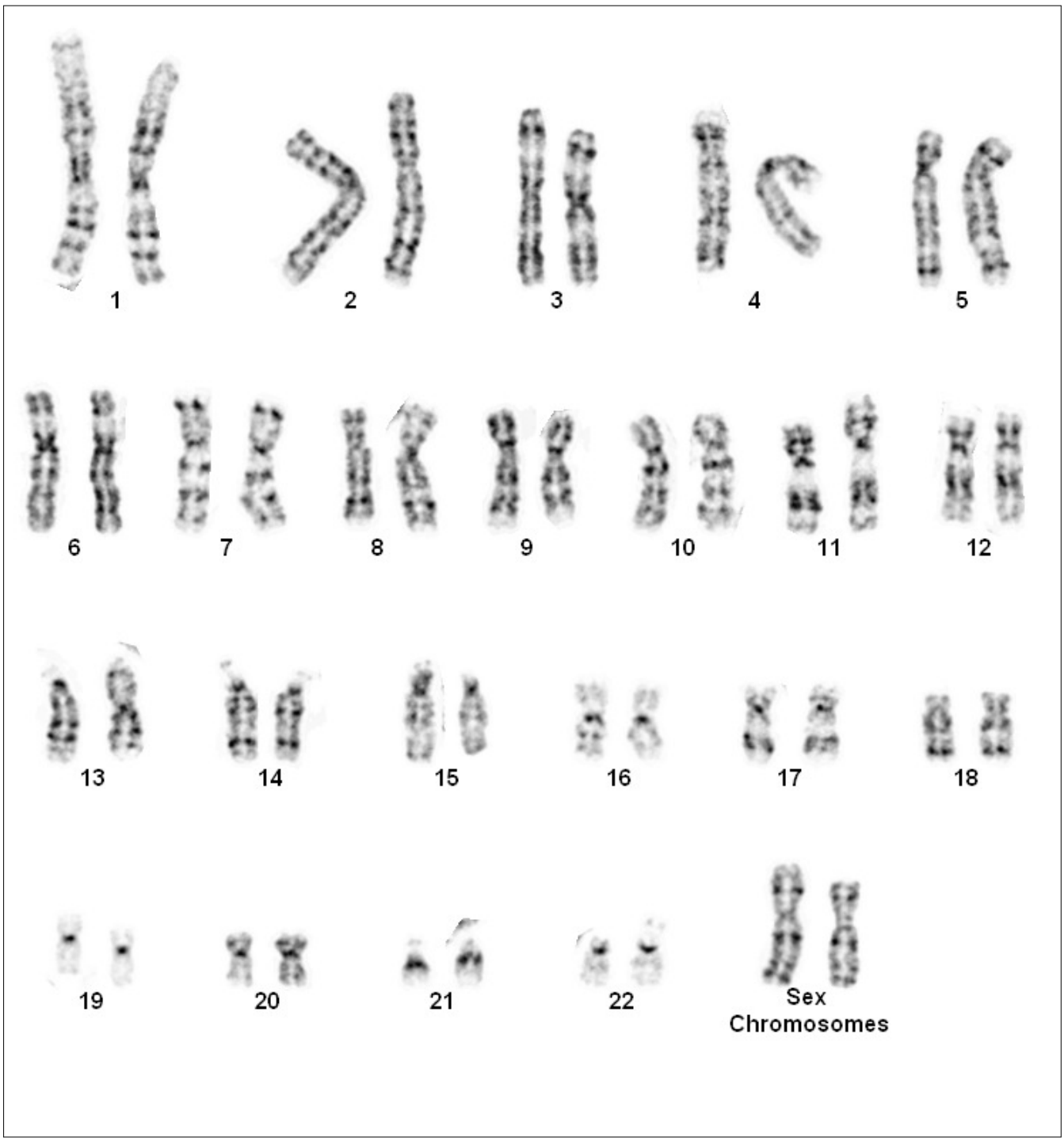
Result: 46,XX

Technologist: birf3n

Date: 10/18/2011



Children's Hospital Medical Center
Cincinnati, Ohio



Case: TS-11-00421 Slide: 4 Cell: 108.6x23.1

Patient name: 10/17/11- B

Date of birth:

Result: 46,XX

Technologist: birf3n

Date: 10/18/2011