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SUPPLEMENTARY DATA

Supplementary Table SI **List of indications for which PGD by siCHILD has been applied so far.**

Gene/Locus of interest	Chromosome of interest	Mode of inheritance	Related genetic disease
ABCD1	X	X-linked recessive	Adrenomyeloneuropathy, adult
ALK1	12	Autosomal dominant	Rendu-Osler-Weber syndrome
BMR2	2	Autosomal dominant	Pulmonary hypertension, familial primary, 1
BRCA1	17	Autosomal dominant	Breast and ovarian cancer
BRCA2	13	Autosomal dominant	Breast and ovarian cancer
C9ORF72	9	Autosomal dominant	Amyotrophic lateral sclerosis 1
CFTR	7	Autosomal recessive	Cystic fibrosis
DMPK	19	Autosomal dominant	Myotonic dystrophy 1
dup(22q11)	22	Chromosomal	N/A
EBP	X	X-linked dominant	Chondrodysplasia punctata
EDAR	2	Autosomal dominant	Ectodermal dysplasia 10A
EXT1	8	Autosomal dominant	Exostoses, multiple, type 1
F5	1	Autosomal recessive	Factor V deficiency
F8	X	X-linked recessive	Hemophilia A (F8 activity <1%)
F9	X	X-linked recessive	Hemophilia B (F9 activity <1%)
FBN1	15	Autosomal dominant	Marfan syndrome
FMR1	X	X-linked dominant	Fragile X syndrome
FSHD	4	Autosomal dominant	Facioscapulohumeral muscular dystrophy 1
HBB	11	Autosomal recessive	Thalassemia, beta
HTT	4	Autosomal dominant	Huntington disease
KCNH2	7	Autosomal dominant	Long QT syndrome 2
KRT16	17	Autosomal dominant	Palmoplantar keratoderma, nonepidermolytic, focal
Lamine A/C	1	Autosomal dominant	Cardiomyopathy, dilated, 1A
MYBPC3	11	Autosomal dominant	Cardiomyopathy, hypertrophic, 4
NF1	17	Autosomal dominant	Neurofibromatosis, type 1
NKX2-1	3	Autosomal dominant	Hypothyroidism, neonatal respiratory distress
NOTCH1	9	Autosomal dominant	Cardiopathy
PIGA	X	X-linked recessive	Multiple congenital anomalies-hypotonia-seizures syndrome 2
PMP22	17	Autosomal dominant	Charcot-Marie-Tooth disease, type 1A
RET	10	Autosomal dominant	Hirschsprung disease
RP3	X	X-linked recessive	Retinitis pigmentosa 3
RPGRIP1	14	Autosomal recessive	Leber congenital amaurosis 6
SMN1	5	Autosomal recessive	Spinal muscular atrophy
SPG4	2	Autosomal dominant	Spastic paraplegia 4
STIL	1	Autosomal recessive	Microcephaly 7, primary
STK11	19	Autosomal dominant	Peutz-Jeghers syndrome
t(16;17)	16; 17	Chromosomal	N/A
t(18;20)	18; 20	Chromosomal	N/A
t(2;15)	2; 15	Chromosomal	N/A
t(5;14)	5; 14	Chromosomal	N/A
TP53	17	Autosomal dominant	Li-Fraumeni syndrome