Cases when neither origin of the active allele nor level of expression from each parental allele could be determined (ambiguous):		
a) when all three samples (or at least the dat transcriptom e or genome .	ughter and a parent) are homozy	gous and bearing the same allele in
ACTGATCG	ACTGATCG	ACTGATCG
ACTGATCG		ACTGATCG
	ACTGATCG	ACTGATCG
b) both parental SNPs are homozygous in transcriptome , but different to each other, and the daughter homozygous, apparently only expressing the paternal allele. However, the mother could have an allele (A in this case), which is also silenced via XCI.		
ACTGATCG	ACTGCTCG	ACTG <mark>A</mark> TCG
c) in the cases when the father is not sampled and the mother is homozygous in transcriptome , since the mother could have a repressed allele via XCI.		
	ACTGATCG	A C T G C T C G
	ACTGATCG	ACTG ^A / _C TCG
d) if the father is not sampled and the mother is he	eterozygous in transcriptome or ge	nome.
	ACTG ^{A/} _C TCG	ACTG ^A / _C TCG
	ACTG ^A / _C TCG	ACTGATCG
e) the mother is heterozygous in transcriptome or genome and the daughter is homozygous, bearing the paternal allele (A) in transcriptome or genome ; however the daughter could have obtained the allele (A) from both parents and could be expressing both or only one.		
ACTGATCG	ACTGA/cTCG	ACTGATCG
When biallelic expression was observed in the daughter, we could determine parent-of-origin when: f) the father is homozygous (transcriptome or genome), the mother heterozygous (transcriptome or genome) and the daughter is heterozygous. In this case, the daughter obtained one allele (A) from the father and the second (C) from the mother.		
ACTGATCG	ACTG ^{A/} _C TCG	ACTG ^A / _C TCG
g) both parental SNPs are homozygous (transc heterozygous.	criptome or genome), but differen	nt to each other, and the daughter is
ACTGATCG	ACTGCTCG	ACTG $^{A}/_{\mathbb{C}}$ TCG
h) one of the alleles observed in the daughter is not present in either parent (transcriptome). Because we are certain of the father's SNP (A in this example), we can assume the mother is heterozygous at the position but the alternative allele is silenced through XCI (C in this example), thus, the daughter obtained the alternative allele (C) from the mother.		
ACTGATCG	ACTGATCG	ACTGA/cTCG
i) the father is homozygous ($\it transcriptome$ or $\it ge$	nome) and the daughter heterozygo	ous.
ACTGATCG		ACTG ^A / _C TCG
j) the father is not sampled, the mother is homozygous in genome and the daughter is heterozygous.		
	ACTGATCG	ACTG ^c / _A TCG
In the cases when monoallelic expression was obser		
k) one of the alleles observed in the daughter is not present in either parent (transcriptome or low coverage in mother genome). Because we are certain of the father's SNP (A in this example), we can assume the mother is heterozygous at the position but the alternative allele is silenced through XCI (C in this example). The daughter obtained the alternative allele (C) from the mother (paternal inactivation).		
ACTGATCG	ACTGATCG	ACTGCTCG
l) both parental SNPs are homozygous (transcriptome or genome), but different to each other, and the daughter is homozygous expressing the maternal allele (C). Since we are certain the father is homozygous (A in this case), the daughter is repressing the allele from the father (A) and only expressing the maternal allele (C) (paternal inactivation).		
ACTGATCG	ACTGCTCG	A C T G C T C G
m) the father is homozygous (transcriptome or genome) and the daughter is homozygous, but different to each other, with the mother being heterozygous (transcriptome or genome); the daughter obtained the allele from the mother (C) and is repressing the allele from father (A) (paternal inactivation).		
A C T G A T C G n) the father is homozygous (transcriptome or g or is not sampled. In which case the daughter obtain (paternal inactivation).		
ACTGATCG o) both parental SNPs are homozygous in genor inactivation).	ne , but different to each other, and	ACTGCTCG the daughter homozygous (maternal
ACTGATCG	ACTGCTCG	A C T G A T C G
p) in the case when the father is not sampled and the mother is homozygous in genome and daughter is homozygous (paternal inactivation).		
	ACTGATCG	A C T G C T C G