### 12. Ejercicio Teórico de Paternidad

#### 12.1. Caso propuesto

La persona identificada como “hija” sospecha que su padre legal (PP1) no es su padre, sino que, en realidad, su padre es el individuo identificado como PP2. Debido a desavenencias con su madre, ésta no se presta a la prueba, disponiendo únicamente de muestras de ambos supuestos padres y de la propia hija. Los perfiles correspondientes a dichos individuos se reflejan más abajo. Deben realizarse los cálculos de probabilidad correspondientes a ambos utilizando la tabla de frecuencias que se adjunta en el Anexo. Especificar el valor de X, Y e IP para cada marcador.

<table>
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<th>PP1</th>
<th>X</th>
<th>Y</th>
<th>IP</th>
<th>PP2</th>
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<th>Y</th>
<th>IP</th>
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#### 12.2. Desviaciones

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<th>Comentarios</th>
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| 4595     | PP1: Los valores de X e Y totales no pueden expresarse con cuatro decimales al ser, respectivamente, 6,1408E-14 y 2,7087E-18.  
PP2: Los valores de X e Y totales no pueden expresarse con cuatro decimales al ser, respectivamente, 7,5613E-09 y 2,7087E-18.  
Nota sobre los cálculos: El redondeo a cuatro decimales se ha realizado en los valores de X e Y parciales. El IP parcial se ha calculado a partir de los valores anteriores redondeados. El IP total es el producto de los IP parciales redondeados. Los X e Y totales son el producto de los X e Y parciales redondeados. La W se ha calculado a partir de una probabilidad “a priori” del 50%. |
| 4604     | Para PP2 se calculó el IP residual sin tener en cuenta las exclusiones que debieron ser expresadas como “0,0000” |
| 4605     | Para el cálculo de los IP y de las probabilidades se ha empleado el programa PATCAN, que es el que se utiliza de manera rutinaria en el laboratorio con las frecuencias alélicas proporcionadas en el anexo. En la salida de este programa no se proporciona el valor de X e Y por lo que no hemos rellenado esas casillas |
| 4608     | Datos calculados con el software PATPCR Version 2.02 beta final |
| 4620     | Para los cálculos que figuran arriba de IP y W en el caso de PP2 con respecto a “hija” no se han tenido en cuenta los marcadores incompatibles D13S317, D21S11, D3S1358, D7S820 y VWA. |
Si consideramos la posibilidad de que las incompatibilidades se han producido por mutación en el caso de PP2 con respecto a “hija” se obtendría un IP acumulado de 4,29554E-10.

Para considerar los cálculos de probabilidad e IP se puede realizar individualmente en el caso de PP1 frente a “hija” y PP2 frente a “hija” en el que se calcula una razón de probabilidad bajo el supuesto de que cada uno de los respectivos padres sea el padre biológico frente a que lo sea un individuo elegido al azar en la población.

Otra aproximación sería, realizar una cociente de probabilidad bajo el supuesto de que el PP1 es el padre biológico de “hija” frente a la hipótesis de que lo sea PP2. En esta aproximación si no considerásemos los marcadores incompatibles de PP2 obtendríamos un valor LR de 116 que representa ese número de veces más probable la hipótesis de que PP1 sea el padre biológico con respecto a que lo sea PP2. Este valor se elevaría a 5,24803E+13 si considerásemos las incompatibilidades como mutación.

Existe un total de 5 incompatibilidades entre PP2 y la hija, lo cual permite excluir a PP2 como padre.

Cálculos efectuados con el programa Familias versión 1.63

Fórmulas utilizadas:

\[ X = \text{probabilidad da observación, assumindo PP1/PP2 é o verdadeiro pai de “Hija”;} \]
\[ Y = \text{probabilidade da observação, assumindo PP1/PP2 não é o verdadeiro pai de “Hija”;} \]

Exemplos:

Para CSF1PO (PP1): \( X = f_11^2 \times f_{11} \); \( Y = f_{11}^2 \times f_{11}^2 \).

Para D13S317 (PP1): \( X = 2f_8f_{12} \times 1/2 \times f_{13} \); \( Y = 2f_8f_{12} \times 2f_8f_{13} \).

Para D8S1179 (PP2): \( X = 2f_{13}f_{15} \times 1/2(f_{13}+f_{15}) \); \( Y = 2f_{13}f_{15} \times 2f_{13}f_{15} \).

Quando utilizamos todas las casas decimais dos valores de X e Y para fazer o cálculo de IP total para PP1 encontramos o valor de 22599.3794. Se utilizámos somente as quatro casas decimais para X e Y encontramos IP total = 22871.5459.

No se han empleados criterios diferentes a las premisas planteadas.

Se destaca que se tuvieron en cuenta las premisas planteadas, en consecuencia los valores de X e Y fueron expresados redondeado a 4 decimales, y a partir de los mismos se determinaron los valores de IP.

Después del análisis de los 13 STRs descartamos a PP2 como posible padre de la HIJA ya que presenta 5 incompatibilidades con esta hipótesis. Para el cálculo en este caso de los parámetros del marcador D18S51, se ha utilizado la frecuencia mínima del marcador ya que la correspondiente al alelo 22 era inferior a esta.

En cambio consideramos a PP1 como padre compatible con la HIJA, el cálculo del Índice de Paternidad se muestra en la tabla.

Se utilizaron las fórmulas propuestas por Charles Brenner.

Los valores calculados con el programa FAMILIAS son:

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<th>IP</th>
<th>W</th>
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</thead>
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<td>PP2</td>
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Las diferencias que se observan entre el cálculo manual y el cálculo realizado mediante FAMILIAS se deben a que en el cálculo manual se han utilizado las frecuencias alélicas proporcionadas por el ejercicio teórico. En el caso del programa FAMILIAS, éste ejecuta una normalización de las frecuencias a un valor de 1 que da lugar a pequeñas diferencias.

En el caso de PP1, se han utilizado las fórmulas sugeridas por el grupo de trabajo de estadística de genética forense de la GEP, que tienen en cuenta el genotipo del progenitor.

En el caso de PP2, se han utilizado las fórmulas sugeridas por el grupo de trabajo de estadística de genética forense de la GEP, que NO tienen en cuenta el genotipo del progenitor.

PP1 PUEDE SER EL PADRE BIOLOGICO DE HIJA YA QUE HEMOS ENCONTRADO UNA INCLUSION DE LA PATERNIDAD CON UN IP DE 24284 Y UN W DE 99,995. EL LAB REALIZARIA MAS MARCADORES ANTES DE EMITIR UN REPORTE DEFINITIVO.

PP2 PRESENTA EN 13 STRs 5 INCOMPATIBILIDADES CON LA HIJA ADICIONALMENTE UN IP MUY BAJO CON ESTOS RESULTADOS EL PP2 SE EXCLUYE DE SER EL PADRE BIOLOGICO DE LA HIJA EN CUESTION

Valor calculado mediante el producto de los IP correspondientes a cada marcador

Como frecuencias de los alelos del marcador D8S1179 se consideró las reportadas en la Tabla que se adjunta para el marcador D8S1079, por considerarse que responde a un error tipográfico.

PARA EL MARCADOR D8S1179 SE UTILIZO LA FRECUENCIA DEL MARCADOR D8S1079 QUE APARECE EN LA TABLA DE FRECUENCIAS ADJUNTA EN EL ANEXO.

LOS CALCULOS SE REALIZARON UTILIZANDO MICROSOFT EXCELL.
12.3.- Resultados de la Paternidad Teórica por laboratorio (Tabla 9)

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**TOTAL**

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**TOTAL**

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**TOTAL**
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Ejercicio GEP-ISFG 2007

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**Ejercicio GEP-ISFG 2007**

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Ejercicio GEP-ISFG 2007

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