**Supplementary material**

**Supplementary Table 1. Data corresponding to pregnancies included in the group 1 of patients treated at Centro Hospitalario Pereira Rossell (CHPR)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year | IgG - IgM + | IgG- IgM - | IgG + IgM- | IgG + IgM + | Number of Seroconversion cases | Calculated Seroconversion rate | Confirmed CT cases | Valid Tests | Total Births |
| 2019 | 13 | 2476 | 2259 | 35 | 13 | 0,52 | 4 | 4796 | 5884 |
| 2020 | 9 | 2623 | 2309 | 39 | 18 | 0,68 | 3 | 4998 | 5875 |
| 2021 | 8 | 2601 | 2108 | 28 | 15 | 0,57 | 2 | 4760 | 5765 |
| 2022 | 8 | 2416 | 1913 | 39 | 17 | 0,70 | 2 | 4393 | 5283 |
| 2023 | 5 | 2324 | 2022 | 24 | 10 | 0,43 | 3 | 4385 | 5121 |
| Average/yr | 8,6 | 2488 | 2122,2 | 33 | 14,6 | 0,58 | 2,8 | 4666,4 | 5585,6 |
| Total | 43 | 12440 | 10611 | 165 | 73 | - | 14\*\*\* | 23,332 | 27,928 |

\*CT= congenital toxoplasmosis \*\*seroconversion was calculated as the number of IgM+/IgG- patients over the total number of valid tests, minus those valid tests corresponding to IgG+ patients at the time of first serology and normalized for every 1000 births \*\*\*Note that 13 of these cases were followed up. Details are shown in supplementary table 2.

**Supplementary Table 2.** **Congenital Toxoplasmosis (CT) cases included in group 2 of this study.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CASE | Trimester of diagnosis | Maternal treatment | Clinical manifestations | Detailed clinical manifestations | Year |
| 1 | UD | No | Yes | Ventricular dilatation, chorioretinitis, neurological affectations and altered Transfontanelar echography | 2019 |
| 2 | 3 | Yes | No |  | 2019 |
| 3 | 2 | Yes | No |  | 2019 |
| 4 | 3 | Yes | Yes | Calcifications, neurological affectations and altered Transfontanelar echography | 2019 |
| 5 | UD | No | No |  | 2020 |
| 6 | 2 | No | Yes | Chorioretinitis, neurological affectations | 2020 |
| 7 | 3 | Yes | Yes | Ventricular dilatation, calcifications, chorioretinitis, neurological affectations and altered Transfontanelar | 2021 |
| 8 | 2 | Yes | Yes | Ventricular dilatation, calcifications, chorioretinitis, neurological affectations and altered Transfontanelar echography | 2021 |
| 9 | UD | Yes | No |  | 2022 |
| 10 | 3 | No | No |  | 2022 |
| 11 | 1 | No | Yes | Chorioretinitis | 2023 |
| 12 | 3 | No | Yes | Chorioretinitis | 2023 |
| 13 | 3 | No | Yes | Chorioretinitis | 2023 |

**\*UD; undetermined**

**Supplementary Table 3. Correlation among samples in cases where multiple samples were collected for a given mother-newborn pair.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Mother's peripheral blood** | **Placenta tissue** | **Umbilical cord blood** | **Newborn's peripheral blood** |
| **TG47** | Negative | Positive | Negative | Negative |
| **TG02** | Positive | Positive | Positive |  |
| **TG11** | Positive | Positive | Positive |  |
| **TG38** | Positive | Positive | Positive |  |
| **TG09** | Positive | Negative | Positive |  |
| **TG42** | Positive | Negative | Positive |  |
| **TG52** | Positive | Negative | Negative |  |
| **TG50** | Positive | Negative |  | Positive |
| **TG20** | Positive | Positive |  |  |
| **TG22** | Positive | Positive |  |  |
| **TG23** | Positive | Positive |  |  |
| **TG26** | Positive | Negative |  |  |
| **TG41** | Positive |  | Positive |  |
| **TG14** |  | Positive | Positive |  |
| **TG15** |  | Positive | Positive |  |
| **TG16** |  | Positive | Positive |  |
| **TG18** |  | Positive | Positive |  |
| **TG39** |  | Positive | Positive |  |
| **TG10** |  | Positive | Negative |  |
| **TG35** |  | Positive |  | Positive |

\* Positive and Negative refer to the result of the diagnostic PCR

**Supplementary Table 4. Accession number and ToxoDB IDs of alleles used for constructing the phylogenetic tree**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **AS2** | **Bub** | **C22-8** | **C29-2** | **Gra6** | **L358** | **Pk1** |
| **CASTELLS** | JX045472 | JX045460 |  |  | JX044194 |  |  |
| **TgARI** | TGARI\_271050 | TGARI\_266960 | TGARI\_321370 | TGARI\_252890 | TGARI\_275440 | TGARI\_285780 | TGARI\_243500 |
| **TgBR9** | TGBR9\_271050 | TGBR9\_266960 | TGBR9\_321370 | TGBR9\_252890 | TGBR9\_275440 | TGBR9\_285780 | TGBR9\_243500 |
| **TgCAST** | TGCAST\_271050 | TGCAST\_266960 | TGCAST\_321370 | TGCAST\_252890 | TGCAST\_275440 | TGCAST\_285780A | TGCAST\_243500 |
| **TgCatBr1** | JX045470 | JX045466 |  |  | JX044196 |  |  |
| **TgCatBr10** | JX045483 | JX045461 |  |  | JX044189 |  |  |
| **TgCatBr18** | JX045476 | JX045465 |  |  | JX044224 |  |  |
| **TgCatBr2** | JX045487 | JX045450 |  |  | JX044203 |  |  |
| **TgCatBr3** | JX045486 | JX045458 |  |  | JX044194 |  |  |
| **TgCatBr5** | EU258532 |  | EU258488 |  | JX044228 | EU258502 | EU258517 |
| **TgCatBr6** | JX045485 | JX045462 |  |  | JX044227 |  |  |
| **TgCatBr9** | JX045484 | JX045464 |  |  | JX044204 |  |  |
| **TgCOUG** | TGCOUG\_271050 | TGCOUG\_266960 | TGCOUG\_321370 | TGCOUG\_252890 | TGCOUG\_275440 | TGCOUG\_285780 | TGCOUG\_243500 |
| **TgDgCo11** | EU258533 |  | EU258489 |  |  | EU258503 | EU258518 |
| **TgDOM2** | TGDOM2\_271050 | TgDOM2\_Btub | TGDOM2\_250780 | TGDOM2\_252890 | TGDOM2\_275440 | TGDOM2\_285780A | TGDOM2\_243500 |
| **TgFOU** | TGFOU\_271050 | TGFOU\_266960 | TGFOU\_321370 | TGFOU\_252890 | TGFOU\_275440 | TGFOU\_285780 | TGFOU\_243500 |
| **TgGT1** | TGGT1\_271050 | TGGT1\_266960 | TGGT1\_250780 | TGGT1\_252890 | TGGT1\_275440 | TGGT1\_285780 | TGGT1\_243500 |
| **TgMAS** | TGMAS\_271050 | TGMAS\_266960 | TGMAS\_321370 | TGMAS\_252890 | TGMAS\_275440 | TGMAS\_285780A | TGMAS\_243500 |
| **TgME49** | TGME49\_271050 | TGME49\_266960 | TGME49\_321370 | TGME49\_252890 | TGME49\_275440 | TGME49\_285780 | TGME49\_243500 |
| **TgP89** | TGP89\_271050 | TGP89\_266960 | TGP89\_321370 | TGP89\_252890 | TGP89\_275440 | TGP89\_285780A | TGP89\_243500 |
| **TgRH88** | TGRH88\_022160 | TGRH88\_011050 | TGRH88\_064050 | TGRH88\_005240 | TGRH88\_038710 | TGRH88\_026240 | TGRH88\_028910 |
| **TgRUB** | TGRUB\_271050 | TGRUB\_266960 | TGRUB\_321370 | TGRUB\_252890 | TGRUB\_275440 | TGRUB\_285780A | TGRUB\_243500 |
| **TgVEG** | TGVEG\_271050 | TGVEG\_266960 | TGVEG\_321370 | TGVEG\_252890 | TGVEG\_275440 | TGVEG\_285780 | TGVEG\_243500 |

**Supplementary Table 5. Accession numbers of new sequences generated in this study**

|  |  |  |
| --- | --- | --- |
| **Sample** | **Marker** | **GenBank accession number** |
| Tg2 | Btub | PV564118 |
| Gra6 | PV564146 |
| C228 | PV564166 |
| Tg7 | Btub | PV564119 |
| Tg8 | Gra6 | PV564147 |
| Tg9 | Btub | PV564120 |
| Gra6 | PV564148 |
| Tg11 | Btub | PV564121 |
| Gra6 | PV564149 |
| C228 | PV564167 |
| C292 | PV564173 |
| Tg14 | Btub | PV564122 |
| Gra6 | PV564150 |
| C292 | PV564174 |
| Tg15 | Btub | PV564123 |
| Gra6 | PV564151 |
| Tg18 | Btub | PV564124 |
| Gra6 | PV564152 |
| Tg19 | Btub | PV564125 |
| Gra6 | PV564153 |
| Tg20 | Btub | PV564126 |
| Gra6 | PV564154 |
| C228 | PV564168 |
| Tg21 | Btub | PV564127 |
| Gra6 | PV564155 |
| Tg22 | Btub | PV564128 |
| Tg23 | Btub | PV564129 |
| Tg24 | Btub | PV564130 |
| C292 | PV564175 |
| Tg25 | Btub | PV564131 |
| Tg26 | Btub | PV564132 |
| Tg33 | Gra6 | PV564156 |
| Tg34 | Btub | PV564133 |
| Gra6 | PV564157 |
| Tg35 | Btub | PV564134 |
| Gra6 | PV564158 |
| C228 | PV564169 |
| Tg36 | Btub | PV564135 |
| Tg37 | Btub | PV564136 |
| C292 | PV564176 |
| Tg38 | Btub | PV564137 |
| Gra6 | PV564159 |
| Tg40 | Btub | PV564138 |
| Gra6 | PV564160 |
| C228 | PV564170 |
| C292 | PV564177 |
| Tg41 | Btub | PV564139 |
| Gra6 | PV564161 |
| C292 | PV564178 |
| Tg42 | Gra6 | PV564162 |
| C292 | PV564179 |
| Tg43 | Btub | PV564140 |
| Gra6 | PV564163 |
| Tg45 | Btub | PV564141 |
| Gra6 | PV564164 |
| Tg46 | Btub | PV564142 |
| Tg47 | Btub | PV564143 |
| Gra6 | PV564165 |
| Tg49 | Btub | PV564144 |
| C228 | PV564171 |
| Tg50 | Btub | PV564145 |
| Tg51 | C228 | PV564172 |

**Supplementary Figure 1**.

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**Supplementary Figure 1. Antibody titers in cases of maternal seroconversion with confirmed transplacental transmission of *Toxoplasma gondii*.** IgG and IgM titers are shown for two sequential serological surveys of pregnant women whose babies were born with congenital toxoplasmosis. The 13 cases correspond to those shown in Tables 2 and 3. Cases in red correspond to those who did not receive treatment. Titers of 0–3 were considered negative, 4–7 equivocal and ≥8 positive

**Supplementary Figure 2**

A close up of food

AI-generated content may be incorrect.

**Supplementary Figure 2**. Representative images of lessions observed in placental samples from two patients. Lessions are highlighted within a dashed square. Histopathological analysese of other sections of the same placenta did not reveal significant tissue damage (not shown).