**Supplementary Material**

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# **Table S1: Microsatellite Markers of Venison *Toxoplasma Gondii* Strain and 46 *Toxoplasma Gondii* Strains Collected from North American Animals and Humans**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Isolatea** | **Year** | **US state** | **Species** | **RFLP genotype numberb** | **Haplogroup (HG)c** | **Microsatellite markers** |
| ***TUB2*** | ***W35*** | ***TgM-A*** | ***B18*** | ***B17*** | **M33** | **MIV.1** | **MXI.1** | ***M48*** | ***M102*** | ***N60*** | ***N82*** | ***AA*** | ***N61*** | ***N83*** |
| ARI [1] | 1992 | No data | Human | 5 | HG12 | 289 | 242 | 209 | 158 | 336 | 169 | 274 | 362 | 215 | 170 | 147 | 131 | 295 | 089 | 316 |
| B41 [1] | 1994 | No data | Bear | 4 | HG12 | 289 | 242 | 207 | 162 | 336 | 169 | 274 | 356 | 213 | 170 | 142 | 111 | 287 | 107 | 316 |
| B73 [1] | 1994 | No data | Bear | 127 | HG2 | 289 | 242 | 207 | 160 | 336 | 169 | 274 | 356 | 213 | 190 | 142 | 111 | 267 | 101 | 310 |
| CTG [1] | 1976 | NH | Cat (*Felis silvestris catus*) | 2 | HG3 | 289 | 242 | 205 | 160 | 336 | 165 | 278 | 356 | 215 | 190 | 147 | 111 | 269 | 089 | 312 |
| GT1 [2] | 1980 | OH | Goat (*Capra aegagrus hircus*)  | 10 | HG1 | 291 | 248 | 209 | 160 | 342 | 169 | 274 | 358 | 209 | 168 | 145 | 119 | 265 | 087 | 306 |
| M7741 [1] | 1958 | IA | Sheep (*Ovis aries*) | 133 | HG3 | 289 | 242 | 205 | 160 | 336 | 165 | 278 | 356 | 215 | 190 | 147 | 111 | 267 | 091 | 312 |
| ME49 [3] | 1965 | No data | Sheep (*Ovis aries*) | 1 | HG2 | 289 | 242 | 207 | 158 | 336 | 169 | 274 | 356 | 215 | 174 | 142 | 111 | 265 | 091 | 310 |
| RAY [1] | 1993 | No data | Human | 5 | HG12 | 289 | 242 | 211 | 160 | 336 | 169 | 274 | 362 | 233 | 176 | 151 | 113 | 283 | 099 | 320 |
| ROD [1] | 1993 | No data | Human | 72 | HG3 | 289 | 242 | 205 | 160 | 336 | 165 | 278 | 356 | 213 | 190 | 147 | 111 | 267 | 089 | 314 |
| SOU [1] | 1985 | No data | Human | 139 | HG2 | 289 | 242 | 205 | 158 | 336 | 165 | 278 | 356 | 225 | 174 | 142 | 111 | 259 | 089 | 312 |
| TgBbUs1 [4] | 2009 | AK | American black bear (*Ursus americanus*) | 147 | No data | 291 | 248 | 209 | 162 | 342 | 165 | 274 | 356 | 211 | 180 | 142 | 105 | 267 | 093 | 316 |
| TgCoPa01 [4] | 2012 | PA | Coyote (*Canis latrans*) | 1 | No data | 289 | 242 | 207 | 158 | 336 | 169 | 274 | 356 | 235 | 174 | 142 | 121 | 261 | 093 | 310 |
| TgCoPa02 [4] | 2012 | PA | Coyote (*Canis latrans*) | 5 | No data | 289 | 242 | 211 | 160 | 336 | 169 | 274 | 362 | 225 | 170 | 166 | 113 | 295 | 093 | 310 |
| TgCoPa03 [4] | 2011 | PA | Coyote (*Canis latrans*) | 5 | No data | 289 | 242 | 211 | 162 | 336 | 169 | 274 | 360 | 237 | 172 | 151 | 111 | 269 | 117 | 316 |
| TgCoPa04 [4] | 2011 | PA | Coyote (*Canis latrans*) | 5 | No data | 289 | 242 | 211 | 160 | 336 | 169 | 274 | 362 | 213 | 172 | 149 | 113 | 285 | 095 | 331 |
| TgCoPa05 [4] | 2011 | PA | Coyote (*Canis latrans*) | 3 | No data | 289 | 242 | 207 | 158 | 336 | 169 | 274 | 356 | 215 | 174 | 140 | 119 | 261 | 099 | 308 |
| TgCoPa06 [4] | 2011 | PA | Coyote (*Canis latrans*) | 4 | No data | 289 | 242 | 207 | 162 | 336 | 169 | 274 | 356 | 213 | 170 | 142 | 111 | 287 | 099 | 316 |
| TgCoPa07 [4] | 2011 | PA | Coyote (*Canis latrans*) | 4 | No data | 289 | 242 | 211 | 160 | 336 | 169 | 274 | 356 | 213 | 178 | 145 | 111 | 267 | 109 | 316 |
| TgCoPa08 [4] | 2011 | PA | Coyote (*Canis latrans*) | 1 | No data | 289 | 242 | 207 | 158 | 336 | 169 | 274 | 356 | 213 | 174 | 142 | 123 | 271 | 097 | 310 |
| TgFoxPa01 [4] | 2011 | PA | Red fox (*Vulpes vulpes*) | 3 | No data | 289 | 242 | 207 | 158 | 336 | 169 | 274 | 356 | 233 | 174 | 142 | 111 | 259 | 097 | 310 |
| TgFoxPa02 [4] | 2011 | PA | Red fox (*Vulpes vulpes*) | 54 | No data | 289 | 242 | 205 | 160 | 336 | 165 | 278 | 356 | 215 | 190 | 149 | 111 | 259 | 097 | 312 |
| TgFoxPa03 [4] | 2011 | PA | Red fox (*Vulpes vulpes*) | 2 | No data | 289 | 242 | 205 | 160 | 336 | 165 | 278 | 356 | 213 | 190 | 142 | 111 | 269 | 089 | 312 |
| TgFoxPa05 [4] | 2011 | PA | Red fox (*Vulpes vulpes*) | 1 | No data | 289 | 242 | 207 | 158 | 336 | 169 | 274 | 356 | 213 | 174 | 142 | 111 | 265 | 093 | 310 |
| TgFoxPa0 6[4] | 2011 | PA | Red fox (*Vulpes vulpes*) | 216 | No data | 289 | 248 | 209 | 160 | 336 | 165 | 278 | 356 | 213 | 166 | 149 | 107 | 265 | 087 | 306 |
| TgFoxPa08 [4] | 2011 | PA | Red fox (*Vulpes vulpes*) | 216 | No data | 289 | 248 | 209 | 160 | 336 | 165 | 278 | 356 | 213 | 166 | 145 | 107 | 265 | 087 | 306 |
| TgFoxPa10 [4] | 2011 | PA | Red fox (*Vulpes vulpes*) | 4 | No data | 289 | 242 | 207 | 162 | 336 | 169 | 274 | 356 | 213 | 170 | 142 | 111 | 301 | 103 | 316 |
| TgFoxPa11 [4] | 2011 | PA | Red fox (*Vulpes vulpes*) | 2 | No data | 289 | 242 | 205 | 160 | 336 | 165 | 278 | 356 | 213 | 190 | 149 | 111 | 279 | 089 | 312 |
| TgGoosePa1 [4] | 2011 | PA | Canada Goose (*Branta canadensis*) | 143 | No data | 291 | 242 | 209 | 160 | 336 | 165 | 278 | 356 | 209 | 190 | 149 | 111 | 263 | 087 | 306 |
| TgShUs28 [5] | 2007 | MD, VA, WM | Sheep (*Ovis aries*) | 73 | HG3 | 291 | 248 | 209 | 160 | 336 | 165 | 278 | 354 | 213 | 166 | 147 | 111 | 277 | 087 | 304 |
| TgSoUs01 [6] | 1998 | CA | California Sea otter (*Enhydra lutris nereis*) | 39 | HG12 | 289 | 242 | 207 | 162 | 336 | 169 | 274 | 356 | 215 | 170 | 142 | 111 | 267 | 097 | 310 |
| TgWolfMn09 [7] | 2010 | MN | Gray wolf (*Canis lupus*) | 5 | No data | 289 | 242 | 211 | 162 | 336 | 169 | 274 | 362 | 217 | 170 | 149 | 113 | 293 | 093 | 314 |
| TgWolfMn11 [7] | 2010 | MN | Gray wolf (*Canis lupus*) | 5 | No data | 289 | 242 | 209 | 160 | 336 | 169 | 274 | 362 | 215 | 170 | 147 | 113 | 281 | 091 | 318 |
| TgWolfMn12 [7] | 2010 | MN | Gray wolf (*Canis lupus*) | 5 | No data | 289 | 242 | 211 | 162 | 336 | 169 | 274 | 362 | 217 | 170 | 149 | 111 | 295 | 093 | 316 |
| TgWolfMn13 [7] | 2010 | MN | Gray wolf (*Canis lupus*) | 5 | No data | 289 | 242 | 211 | 160 | 336 | 169 | 274 | 362 | 215 | 170 | 151 | 113 | 279 | 101 | 314 |
| TgWolfMn20 [7] | 2011 | MN | Gray wolf (*Canis lupus*) | 219 | No data | 289 | 242 | 205 | 160 | 336 | 165 | 278 | 356 | 213 | 190 | 153 | 111 | 267 | 089 | 312 |
| TgWolfMn25 [7] | 2011 | MN | Gray wolf (*Canis lupus*) | 5 | No data | 289 | 242 | 211 | 162 | 336 | 169 | 274 | 362 | 225 | 170 | 151 | 111 | 279 | 109 | 314 |
| TgWolfMn26 [7] | 2011 | MN | Gray wolf (*Canis lupus*) | 5 | No data | 289 | 242 | 211 | 160 | 336 | 169 | 274 | 362 | 239 | 172 | 145 | 111 | 283 | 111 | 316 |
| TgWolfMn27 [7] | 2011 | MN | Gray wolf (*Canis lupus*) | 5 | No data | 289 | 242 | 211 | 162 | 336 | 169 | 274 | 362 | 223 | 170 | 153 | 113 | 295 | 105 | 314 |
| TgWolfMn29 [7] | 2011 | MN | Gray wolf (*Canis lupus*) | 5 | No data | 289 | 242 | 209 | 160 | 336 | 169 | 274 | 362 | 215 | 170 | 151 | 113 | 291 | 101 | 320 |
| TgWtdPa01 [4] | 2011 | PA | White-tailed deer (*Odocoileus virginianus*) | 3 | No data | 289 | 242 | 207 | 158 | 336 | 169 | 274 | 356 | 235 | 174 | 142 | 111 | 273 | 087 | 310 |
| TgWtdPa02 [4] | 2011 | PA | White-tailed deer (*Odocoileus virginianus*) | 3 | No data | 289 | 242 | 207 | 158 | 336 | 169 | 274 | 356 | 215 | 174 | 142 | 111 | 267 | 099 | 310 |
| TgWtdPa03 [4] | 2011 | PA | White-tailed deer (*Odocoileus virginianus*) | 4 | No data | 289 | 242 | 211 | 160 | 336 | 169 | 274 | 356 | 213 | 174 | 145 | 111 | 271 | 103 | 316 |
| TgWtdPa06 [4] | 2011 | PA | White-tailed deer (*Odocoileus virginianus*) | 4 | No data | 289 | 242 | 213 | 160 | 336 | 169 | 274 | 356 | 215 | 182 | 145 | 111 | 269 | 101 | 316 |
| TgWtdUs08 [8] | 2007 | MN | White-tailed deer (*Odocoileus virginianus*) | 74 | HG12 | 289 | 242 | 207 | 160 | 336 | 169 | 274 | 356 | 227 | 190 | 142 | 111 | 269 | 103 | 310 |
| TgWtdUs10 [8] | 2007 | MN | White-tailed deer (*Odocoileus virginianus*) | 54 | No data | 289 | 242 | 205 | 160 | 336 | 165 | 278 | 356 | 215 | 190 | 151 | 111 | 259 | 093 | 312 |
| VEG [1] | 1988 | No data | Human | 2 | HG3 | 289 | 242 | 205 | 160 | 336 | 165 | 278 | 356 | 213 | 188 | 153 | 111 | 267 | 089 | 312 |
| Venison strain | 2017 | WI | Venison | No data | No data | 289 | 242 | 211 | 160 | 336 | 169 | 274 | 362 | 235 | 174 | 147 | 111 | NAd | 093 | 316 |
| aReference is the study in which the strain was first described.bhttps://toxodb.org/toxo/. cInformation retrieved from published studies [9, 10]. dNA = Not amplified. |

**Figure S1: Venison Kabobs on the Grill** 

Photograph of venison kabobs that were served at the retreat.

# **References**

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