

## Borrelia genospecies, distribution and vectors

| Borrelia Genospecies  | Distribution  | Vectors   |
|---|---|---|
| <b>Lyme disease borreliae</b>                                     |   |   |
| <i>B. burgdorferi sensu stricto</i>                               | North America, Europe, North Africa, China, Taiwan                                      | <i>Ixodes scapularis, I. ricinus, I. pacificus,</i>   |
| <i>B. garinii</i>   | Europe, Russia, China, Japan, Canada, Korea, Mongolia, North Africa, subantartic ilands | <i>I. ricinus, I. persulcatus, I.cantsuga, I.hexagonus Boophilus sp.</i>                                      |
| <i>B.afzelii</i>  | Europe, Russia, China, Japan, Korea, Mongolia   | <i>I. ricinus, I. persulcatus, I.cantsuga, I.hexagonus, Boophilus sp. Dermacentor spp. Haemaphysalis spp.</i> |
| <i>B. japonica</i>  | Japan   | <i>I.ovatus</i>   |
| <i>B. lusitaniae</i>  | Southwestern Europe, North Africa, Central Europe, Turkey, Scandanavia                  | <i>I.ricinus, I.uriae, I.hexagonus, D.marginatus</i>  |
| <i>B. valaisiana</i>  | Europe, China, Japan, South Korea, Taiwan   | <i>I.ricinus, I. hexagonus, I. uriae, D.merginatus</i>  |
| <i>B. bissetti</i>  | USA (West, Southeast, Upper Midwest), Central Europe                                    | <i>I.scapularis, I.affinis, I.canisuga, I.minor, I.pacificus, I.ricinus</i>                                   |
| <i>B. spielmanii</i>  | Central Europe, Hungary, Ukraine  | <i>I.ricinus, I. hexagonus</i>  |
| <i>B. bavariensis</i>   | Central Europe, Eastern Europe, Russia, Central Asia, China, Japan                      | <i>I.ricinus, I. persulcatus, I. trianguliceps, D,reticulatus</i>   |
| <i>B. kurtenbachii</i>  | USA (East, North), Canada, Europe?  | <i>I.pacificus, I.scapularis, I.spiipalpis</i>  |
| <i>B. finlandensis</i>  | Finland   | <i>I.ricinus</i>  |
| <i>B. andersoni</i>   | North America   | <i>I.dentatus</i>   |
| <i>B. californiensis</i>  | USA   | <i>I.pacificus, I.spinipalpis, D.californicus</i>   |
| <i>B. americana</i>   | USA   | <i>I.pacificus, I.minor</i>   |
| <i>B. carolinensis</i>  | USA   | <i>I.minor</i>  |
| <i>B. tanukii</i>   | Japan   | <i>I.tanuki</i>   |
| <i>B. turdi</i>   | Japan   | <i>I.turdus</i>   |
| <i>B. sinica</i>  | China   | <i>I.ovatus</i>   |
| <i>B. yangtzee</i>  | China   | <i>Haemaphysalis longicornis, I.granulatus</i>  |
| <i>B.chilensis</i>  | Chile   | <i>I.stilesi</i>  |
| <i>B. burgdorferi sensu lato</i><br><i>Haplotype A,B, C, D, E</i> | Uruguay   | <i>I.pararicinus</i>  |

| <b>Relapsing Fever Borreliae –New world</b> |                                    |  |
|---|------------------------------------|--|
| <i>B. hermsii</i>                           | USA (West)                         | <i>Ornithodoros hermsii</i>  |
| <i>B. turicatae</i>                         | USA (Southwestern), Mexico         | <i>O. turicata</i>   |
| <i>B. parkeri</i>                           | USA (West)                         | <i>O. parkeri</i>  |
| <i>B. miyamotoi</i>                         | USA (Northeastern), Russia, Canada | <i>I.persculatus</i> ,<br><i>I.scapularis</i> , <i>I.pacificus</i> |
| <i>B. mazzottii</i>                         | Central America                    | <i>O. talaje</i>   |
| <i>B. venezuelensis</i>                     | Central America                    | <i>O. rudis</i>  |
| <b>Relapsing Fever Borreliae –Old world</b> |                                    |  |
| <i>B. duttoni</i>                           | Sub-Saharan Africa                 | <i>O. moubata</i>  |
| <i>B. crociduræ</i>                         | North Africa, Middle East          | <i>O. erraticus</i>  |
| <i>B. persica</i>                           | Middle East, Central Asia          | <i>O. tholozani</i>  |
| <i>B. hispanica</i>                         | Iberian Peninsula, North Africa    | <i>O. maroccanus</i>   |
| <i>B. latyschewii</i>                       | Iran, Iraq, Eastern Europe         | <i>O. tartakowskyi</i>   |
| <i>B. caucasica</i>                         | Iraq, Eastern Europe               | <i>O. asperus</i>  |
| <b>Reptile Borrelia</b>                     |                                    |  |
| <i>B. turica</i>                            | Turkey                             | <i>Hyalomma aegyptium</i>  |
| <i>Borrelia sp. GP</i>                      | Zambia                             | <i>Amblyomma Sparsum</i>   |
| <i>Borrelia sp. BF</i>                      | Sri Lanka                          | <i>Amblyomma trimaculatem</i>                                      |
| <i>Borrelia sp. ST</i>                      | Ghana                              | <i>Amblyomma latum</i>   |

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The KMF is a promoter of evidence-based research and clinical practice for tick-borne diseases and an advocate for better testing, treatment and education in Australia.

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