B. afzelii ¹ Europe (1994), Asia B. andersonii North America (1995) B. bavariensis Europe (2009), North America, Asia B. burgdorferi 1 North America (1982), Europe, Asia B. garinii 1 Europe (1992), Asia, frequent cause of neuroborreliosis B. mayonii 1 North America (2016) B. miyamotoi Japan (1995), North America (2001), Europe, causative agent of TBRF B. valaisiana Europe (1997), Asia

Table S1. Major Pathogenic Borrelia Species.

¹ Causative agent of LD.

Table S2. Terms Related to Lyme Disease and Other Borrelial Diseases.

Borreliosis	Borrelia infection
CLD	Chronic Lyme disease
Early disseminated LD	Initial dissemination of infection
Early localized LD	Acute phase of infection
Late disseminated LD	Persistent phase of infection
LBRF	Louse-borne relapsing fever
LD	Lyme disease
LNB	Lyme neuroborreliosis
MSI	Morphological state of inocula
Neuroborreliosis	Infection of CNS by Borrelia
PLD	Persistent Lyme disease
PTLDS	Post-treatment Lyme disease syndrome
s. l.	sensu lato ("in the wide sense")
S. S.	sensu stricto ("in the strict sense")
TBD	Tick-borne disease
TBI	Tick-borne infection
TBRF	Tick-borne relapsing fever

Table S3. Borrelia Surface Proteins.

BBA70	Borrelia surface protein which binds plasminogen and cleaves C3b and C5	
BBK32	Fibronectin binding protein that inhibits C1r, inhibiting the CP	
BGA66	B. bavariensis surface protein that inhibits MAC assembly, AP, TP and CP.	
BGA71	B. bavariensis surface protein that inhibits MAC assembly, TP and CP.	
BmtA	<i>Borrelia</i> metal transporter A (Mn)	
CRASP	Complement-regulator-acquiring surface protein	
CspA (CRASP-	CRASP (ORF bba68 on lp54), expressed in tick environment. Homodimer binds FH/FHL-1,	
1)	conveying serum resistance to blood meal via complement deposition evasion.	
CspZ (CRASP-2)	CRASP (ORF bbh06 on lp28-3), expressed in vertebrate environment. Binds FH/FHL-1,	
	enhancing serum resistance via complement deposition evasion.	
Erp	OspE-related protein	
ErpA (CRASP-5)	CRASP, up-regulated during transmission to vertebrate host	
ErpC (CRASP-4)	CRASP, up-regulated during transmission to vertebrate host	
ErpP (CRASP-3)	CRASP, up-regulated during transmission to vertebrate host	
OspA	Outer surface protein A, lipoprotein expressed in tick environment	
OspB	Outer surface protein B, lipoprotein expressed in tick environment	
OspC	Outer surface protein C, lipoprotein expressed in vertebrate environment	
OspD	Outer surface protein D, lipoprotein expressed in tick environment	
OspE	Outer surface protein E, lipoprotein expressed in vertebrate environment	
OspF	Outer surface protein F, lipoprotein expressed in vertebrate environment	
VlsE	Expression region of a VMP-like sequence in <i>B. burgdorferi</i> which undergoes recombination	
	to produce antigenic variation	
VMP	Variable major protein, recombined antigen in <i>B. hermsii</i>	

AP	Alternative pathway of complement system
Ba	Factor B fragment a
Bb	Factor B fragment b
C1. C1r. C1s.	
C2.	
C3, C3a, C3b,	Complement cascade proteins
C4, C4a, C4b,	
C5, C5a, C5b,	
C6, C7, C8, C9	
C3bBb, C4b2a	C3 convertases
C4b2a3b,	C5 convertase
C3bBb3b	
C4bp	C4b binding protein
CD59	(Human) MAC inhibitory protein (protectin)
СР	Classical pathway of complement system
CR1	C3b/C4b complement receptor 1
DAF	Decay accelerating factor (CD55)
FB	Factor B
FD	Factor D
FH	Factor H
FHL-1	Factor H-like protein 1
FHR	Factor H-related protein
FI	Factor I
LP	Lectin pathway of complement system
MAC	Membrane attack complex (see TCC)
MASP	MBL-associated serine protease
MBL	Mannose binding lectin
MCP	Membrane cofactor of proteolysis
TCC	Terminal complement complex (see MAC)
TP	Terminal pathway of complement

Table S4. Complement System Terms.