

Complement factor H-related proteins CFHR2 and CFHR5 represent novel ligands for the infection-associated CRASP proteins of *Borrelia burgdorferi*.

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Abstract

One virulence property of *Borrelia burgdorferi* is its resistance to innate immunity, in particular to complement-mediated killing. Serum-resistant *B. burgdorferi* express up to five distinct complement regulator-acquiring surface proteins (CRASP) which interact with complement regulator factor H (CFH) and factor H-like protein 1 (FHL1) or factor H-related protein 1 (CFHR1). In the present study we elucidate the role of the infection-associated CRASP-3 and CRASP-5 protein to serve as ligands for additional complement regulatory proteins as well as for complement resistance of *B. burgdorferi*.

Beteiligte Forschungseinheiten

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