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	ELSEVIER		Volume 63, Issue SI: 20	Cytokine 3, September 20 13 ICS Abstract Is	013, Pages 261 ssue		http Bibl R.A
	77 : The imn infection witl	nune syst n the Lym	tem cannot ne disease a	generate igent <i>B. b</i>	immunologica <i>urgdorfer</i>	I memory during	77 imr Lyr
	 R.A. Elsner, S.W. Barthold, N. Baumgarth Graduate Group in Microbiology and the Center for Comparative Medicine, University of California-Davis, Davis, CA, USA In vertebrates including humans, mice and dogs, the bacteria <i>Borrelia burgdorferi</i> (Bb) causes a chronic 						261 http
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	non-resolving infe	Infection known as Lyme disease, which requires antibiotic treatment to clear the bacteria. The common in endemic regions. Similarly, mice can be re-infected with the same strain of ack of functional immune responses. The mechanisms underlying this lack of effective short					Ava
	Re-infections are						Citir
	and long-term immunity to Bb are unknown. Using a mouse model of Bb-infection we show that i					ion we show that infection	Арр
	with Bb produces continued preser rapidly when infe recovered. Thus, and flow cytome demonstrate thei follicular helper T their rapid and gl memory formatio suppression, we infected mice the production compa- reduced. Togethe antibody product	strong T-dep nce of IgM. I ction is contr maintenance etric examina r induction w and B cells. obal collapse n is due to th vaccinated m early antibo ared to that i er our data o ion and imm	bendent and T-in Remarkably, both rolled by antibiot e of Bb-specific h ation of germin within 2 weeks of However, the appendent of the in multiple lymp he nature of the nice with influenzed dy response to the in non-infected in demonstrate that unological mem	dependent set th T-dependent ic treatment a umoral respo- al centers, b a primary in oparent norma- ohoid organs Bb-antigens of a virus during his unrelated mice, and infl t Bb infectior ory formation	erum antibodies, cha ent and T-independ and Bb-specific me nses requires ongo pirthplaces of long fection and the pre al induction of germ by day 45. To dete or is a sign of Bb-ir g an ongoing Bb-inf antigen was skew uenza specific IgG n suppresses the o and indicates tha	aracterized by the unusual lent antibodies disappear mory B cells could not be ing infections. Histological -term humoral immunity, esence of germinal center inal centers is followed by ermine whether the lack of affection-mediated immune fection. Remarkably, in Bb ed towards increased IgM responses were strongly development of long-lived t Bb may achieve this by	Wor

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