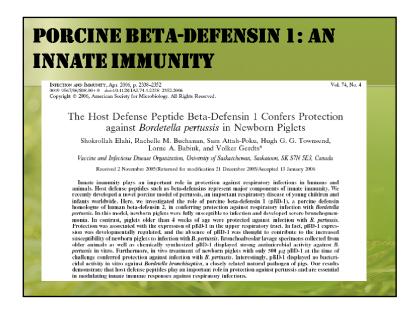
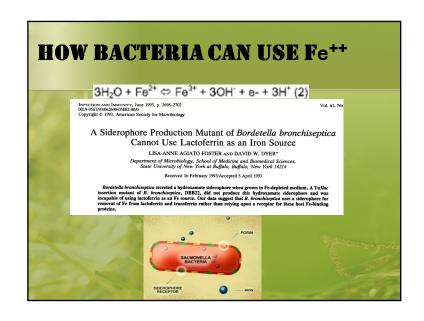
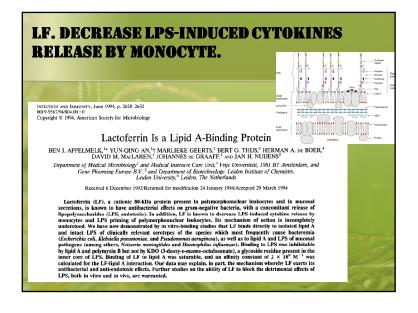


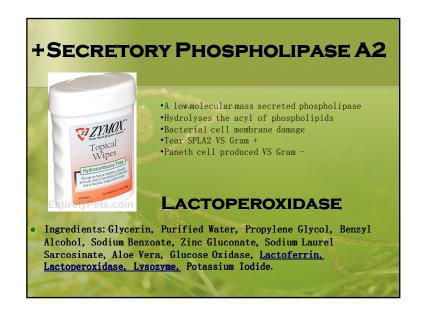
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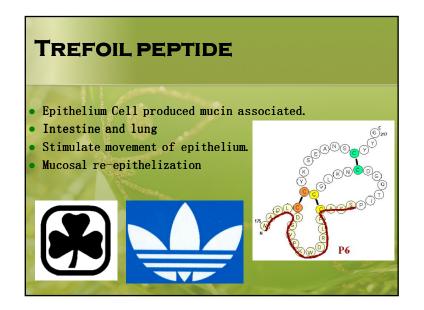


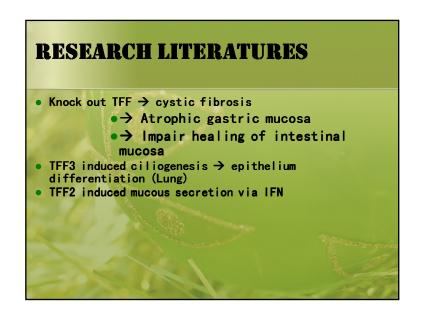


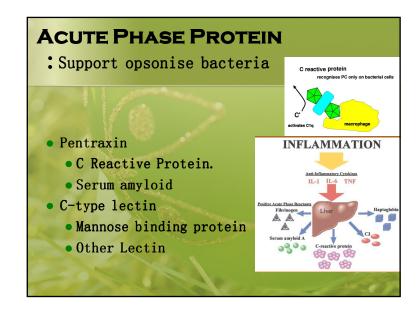


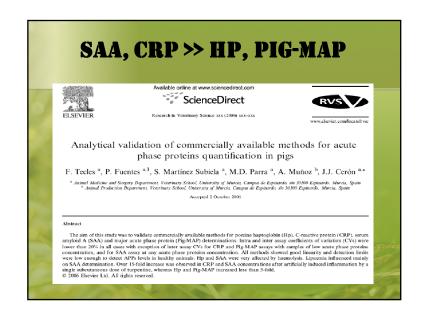


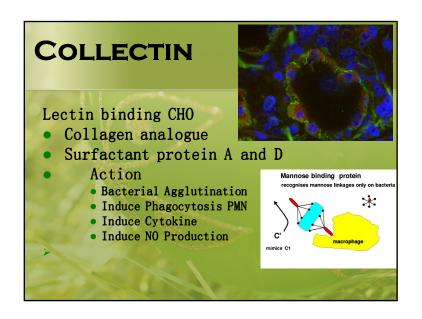












MBL BINDING O ANTIGEN

Mannan-binding lectin activates C3 and the alternative complement pathway without involvement of C2

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"Institute of disposablement of Medical Milrations of an immunology, university of Author, Central, Cen

Lectin pathway activation of C3 is known to involve target recognition by mannan-binding lectin (MBL) or ficolins and generation of classical pathway C3 convertase via cleavage of C4 and C2 by MBL-associated serine protease 2 (MASP-2). We investigated C3 activation in C2-deficient human sera and in sera with other effine defects of complement of assess other mechanisms through which MBL might recruit complement. To acquain the acquainty of a capacity of server met support of 3 deposition was cannined by ELISA using microtiter plates coated with O antigen-specific oligosaccharides derived rom salemoned typhimum, S. howpson, and S. entertials corresponding to serogroups B, cand D (Bo, Ca) and DO, and DO, and the complement of the proposition of the second DO, and the complement of the proposition of the description of the second of the second DO, and the second of the C2 bypass mechanism for alternative pathway-mediated C3 activation was clearly demonstrated using CO, solid-phase mannan, and E. coli LPS. MASP-1 might contribute, but was not required for C3 deposition in the model used. Independent of MBL, specific antibodies to CO supported C3 deposition through classical and alternative pathways. MBL-dependent C2 bypass activation could be particularly important in various inherited and acquired complement deficiency states.

SECRETORY IGA • Tcell Ø Macrophage Plasma cell V IgA (dimeric) secretory piece secretory IgA

ANTIBACTERIAL PEPTIDES



- Possess in all organisms; polymyxin B, bactericin, tachyplesin and etc.
- 4 Groups Classification
 - 1. Peptide without cysteine; cecropins, temporin, magainins, dermaseptin.
 - 2-3. Peptide with cysteine; tachyplesin, a, b defensin
 - 4. Specific amino acid; proline, arginine, tryptophan such as apidaecin

EXAMPLE: CFTR, PR39

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NOTES

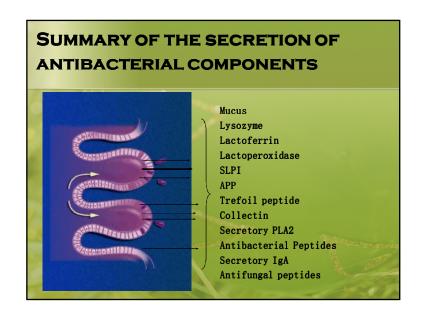
Salmonella Infection Increases Porcine Antibacterial Peptide Concentrations in Scrum†

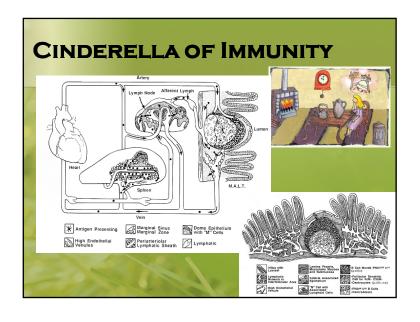
GUOLONG ZHANG,1 CHRISTOPHER R. ROSS,1 STEVEN S. DRITZ.2 JEROME C. NIETFELD,3 AND FRANK BLECHA1

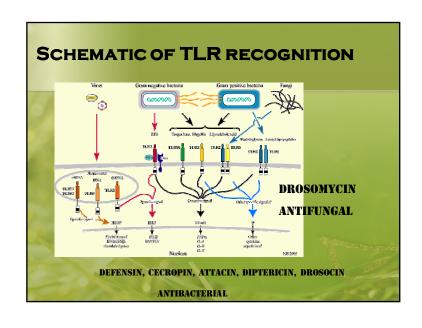
Departments of Anatomy and Physiology¹ and Diagnostic Medicine/Pathobiology³ and the Food Animal Health and Management Center, 2 Kansas State University, Manhattan, Kansas 66506

Received 9 April 1997/Accepted 28 July 1997

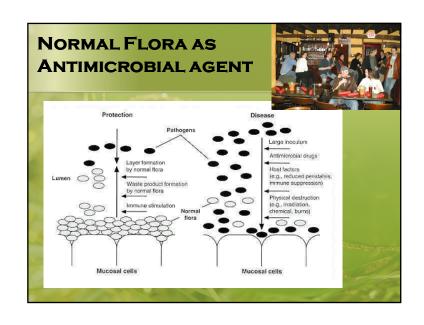
PR-39 is a multifunctional neutrophil peptide involved in host defense and inflammation. To investigate the involvement of PR-39 in a Salmonella choleraesuis infection, a PR-39 enzyme immunoassay was developed. The concentrations of PR-39 in serum were 13.6 \pm 1.9 ng/ml before challenge and increased (P < 0.01) threefold by 10 to 14 days postinfection. Peripheral blood neutrophil counts paralleled the changes in the concentrations of PR-39 in serum, both returned to basal values by 4 weeks postinfection. These findings suggest that the concentrations of serum PR-39 reflect the involvement of this antibacterial peptide in the host's response to an S. choleraesuis infection.

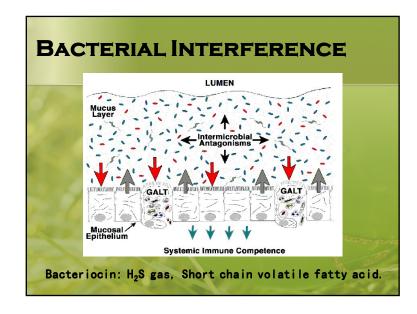












Period	Year	Vaccine	Recommended route of administration	
			Mucosal	Systemic
700	1798	Small pox	_	0
1800	1885	Rabies	_	+
	1896	Typhoid	_	+
	1896	Cholera	_	+
	1897	Plague	_	+
1900–59	1923	Diphtheria	_	+
	1926	Pertussis	_	+
	1927	Tetanus	_	+
	1927	Tuberculosis	_	+
	1945	Influenza	-	+
	1953	Yellow Fever	_	+
	1955	Poliomyelitis (IPV)	_	+
1960–2002	1960	Poliomyelitis (OPV)	+	_
	1963	Measles	_	+
	1969	Mumps	_	+
	1969	Rubella	_	+
	1970	Anthrax	_	+
	1975	Meningococcus (Aac)	-	+
	1977	Streptococcus pneumoniae	_	+
	1980	Adenovirus	+*	_
	1981	Hepatitis B	-	+
	1985	Hemophilus influenzae B	-	+
	1992	Japanese encephalitis	_	+
	1995	Hepatitis A	-	+
	1995	Varicella-zoster	-	+
	1998	Lyme disease	-	+
	1998	Rotavirus	+†	_
	1999	Typhoid	+*	_
	1999	Cholera	+*	
	2001	Influenza A	+‡	

