

# Contents

<b>Streptococcal Superantigens</b> . . . . .	1
1 <i>Streptococcus pyogenes</i> . . . . .	2
1.1 Introduction. . . . .	2
1.2 Epidemiology of Streptococcal Infections . . . . .	3
1.3 Clinical Manifestations . . . . .	4
1.4 Virulence Factors of <i>Streptococcus pyogenes</i> . . . . .	7
2 Superantigens (SAg) . . . . .	11
2.1 Introduction. . . . .	11
2.2 Detection of Superantigens . . . . .	12
2.3 Mechanism of Action . . . . .	14
2.4 Structure and Function . . . . .	18
2.5 Association of SAg with Disease . . . . .	22
2.6 Host Factors: Role of HLA Type . . . . .	25
2.7 Evolutionary Paths of Streptococcal and Staphylococcal SAGs . . . . .	26
3 Therapeutic Strategies to Combat SAg . . . . .	27
3.1 Intravenous Immunoglobulins (IVIG) . . . . .	27
3.2 Pyrogenic Superantigens as Cures for Human Diseases . . . . .	30
3.3 Why Bacteria Produce SAg. . . . .	31
3.4 Concluding Remarks . . . . .	31
References . . . . .	32

Streptococcal Superantigens

Babbar, A.

2015, XI, 41 p. 9 illus., 8 illus. in color., Softcover

ISBN: 978-3-319-22454-1