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Single Cell antibody response to coupled antigenic determinants

by

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SUMMARY

In a total of 5800 pigeon and 6900 AA-sheep plaques from 5 rabbits immunized with AA-pigeon RBC only 128 plaques were found in which both the pigeon and AA-sheep red blood cells were lysed. This number does not exceed the theoretical number of overlapping plaques expected based on the number and size of the plaques. Analysis of the appearance of the mixed plaques revealed only 3 which contained just a single spleen cell. These plaques could well be a result of cross reactivity between sheep and pigeon cells.

Therefore it appears that few if any antibody-forming cells produced two antibodies of different specificities simultaneously.

TABLE OF CONTENTS

	Page
Title	i
Acknowledgement	ii
Table of contents	iii
 Introduction	 1
Materials and Methods	9
Preparation of Antigen	9
Immunizations	10
Autopsy of rabbits and preparation of cell suspension	12
Liquid Plaque Assay technique	13
Indicator systems	13
Assay slides	14
Preparation of liquid hemolysis system	14
Examination of Plaques	15
Experimental	16
Development of liquid hemolysis technique	16
Selection of Red Blood Cell types	16
Identification of Plaques	18
Controls	21
Background against sheep	21
Background against pigeon	21
Specificity of the Response	22
PFC Response to AA-pigeon cells	23
Distribution of Plaques	26
Theoretical evaluation of Mixed Plaque formation	27
Plaque size distribution	27
Theoretical number of Mixed Plaques	29
Discussion	33
Summary	36
Appendix's	37
Figures:	
I	42
II	43
III	44
IV	45
Bibliography	46
Vita	50