

CYTOPLASMIC GRANULES IN HUMAN ORAL AND VAGINAL EPITHELIUM

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SUMM	XX			49							•					
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	Ul	tras	tru	ctu	re	0						*		6		
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APPENDI	340													
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II	Azu	ce A: s	itai	.Il	٠	3 5		*	•		0	0	129	
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IV	BXO	aples	Oſ	fi ta	111	stic	EL]	me i	shoc	ÌS	4		1.32	
BIBLIOG	APHY		•		•	٠	4	*		*	*	ė	1 38	
ADDENDU	1		•		٠			•	49			*	154	
ADDITION	MAL M	RPS E		is i	20		•	•		•		٠	167	
ACKNOVI.			œ.				5						168	

SUMMARY

A survey of the literature reveals controversy concerning the occurrence, origin, and function of keratchyalin granules in the stratified squamous epithelium of the human mouth and vagina.

The sims of the present study were to establish the fact that so-called keratchyalin granules are present in the epithelium of the mucosal surfaces of the mouth and vagina, to suggest a possible origin of the granules, and to investigate any relationship between the incidence of the granules and degree of keratinization.

The subjects used in the investigation were human adults, infants, and foctuses.

epithelium were examined with the light microscope
following histochemical treatment. Oral amears were also
examined by phase contrast microscopy and investigated
with microbiological culture methods. Statistical
analysis was carried out on the results of differential
counts concerning the incidence of keratohyalin granules
and the dagree of keratinization in buccal amears.

Vaginal smears were examined with the light microscope following staining by the Papanicolacu method and by phase contrast microscopy.

The results proved that keratohyalin granules occurred in both oral and vaginal epithelium, and that the appearances were not due to pigments, staining artefacts, or micro-organisms.

of the epithelial cell and their incidence bore no relationship to degree of keratinization. This last finding supports the concept that the keratohyalin granules are not directly involved in the process of keratinization but ultimately become an interfibrillary component of the keratinized cell.

This thesis is submitted in fulfilment of the requirements for the degree of Master of Dental Surgery, University of Adelaide. A year of full-time study, leading to the attainment of the Honours degree of Bachelor of Dental Surgery in 1961, fulfilled the requirements for the entry to candidature for the degree of Master of Dental Surgery.

The thesis contains no material previously submitted by me for a degree in any University, and to the best of my knowledge and belief it contains no material previously published or written by another person, except when due reference is made in the text.

Robert V. Blanden. April, 1964.