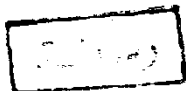


C.D

THE SKIN AND THE IMMUNE SYSTEM



Essay

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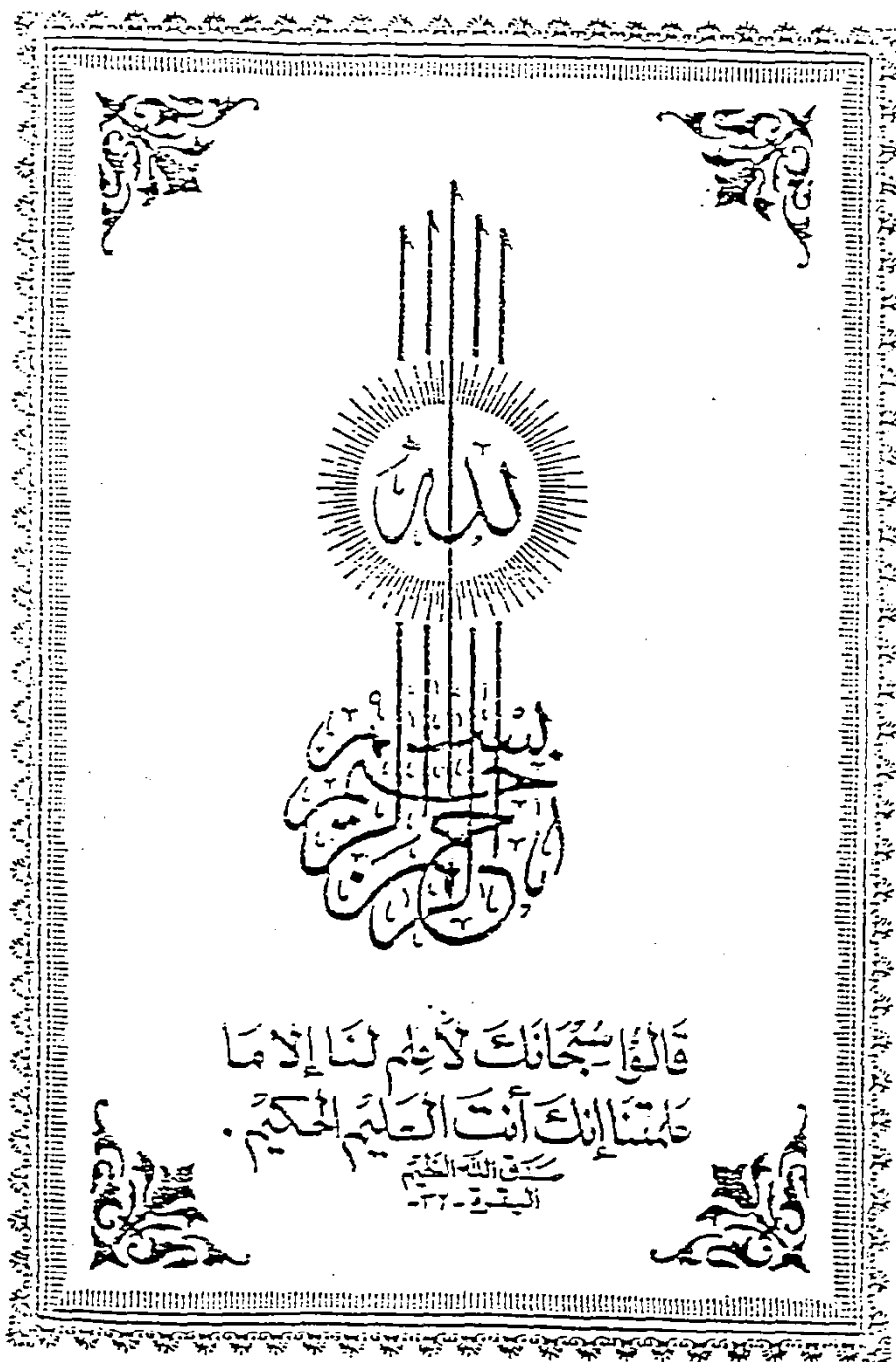
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The deepest part of the human is the stain.

(Paul Valéry)

LIST OF ABBREVIATIONS

A	
α	: Alpha
Ab	: Antibody
AC	: Accessory cell
AD	: Atopic dermatitis
Ad 12E 1b	: Early E1b protein of Adenovirus type 12
Ag	: Antigen
AIDS	: Acquired immunodeficiency syndrome
aMLR	: Autologous mixed leucocyte reaction
ANA	: Antinuclear antibody
Anti-Scl 70	: Anti scleroderma antibody 70
APC	: Antigen presenting cell
ATP	: Adenosine triphosphate
B	
β	: Beta
BALT	: Bronchus-associated lymphoid tissue
BCC	: Basal cell carcinoma
BMZ	: Basement membrane zone
BP	: Bullous pemphigoid
BPAG-1	: Bullous pemphigoid antigen-1
BPAG-2	: Bullous pemphigoid antigen-2
C	
CD	: Cluster of differentiation
cDNA	: Complementary deoxyribonucleic acid
CH	: Contact hypersensitivity
CLA	: Cutaneous lymphocyte-associated antigen
cLC	: Cultured langerhans cell
CMI	: Cell mediated immunity
CMV	: Cytomegalovirus
Con A	: Concanavalin-A
CR	: Complement receptor
CSF	: Colony stimulating factor
CTL	: Cytotoxic T lymphocyte

D

δ	:	Delta
DAF	:	Decay accelerating factor
DALT	:	Duct-associated lymphoid tissue
DC	:	Dendritic cell
DG-1	:	Desmoglein-1
DH	:	Dermatitis herpetiformis
DIF	:	Direct immunofluorescence
DMVEC	:	Dermal microvascular endothelial cell
DNA	:	Deoxyribonucleic acid
DNCB	:	Dinitrochlorobenzene
DNFB	:	Dinitrofluorobenzene
Dp	:	Dermatophagoides pteronyssinus
DPDM	:	Dermal perivascular dendritic macrophage
DRC	:	DNA repair capacity
DTH	:	Delayed-type hypersensitivity

E

ϵ	:	Epsilon
EBV	:	Epstein Barr virus
ECSF	:	Epidermal cell derived suppressor factor
EGF	:	Epidermal growth factor
ELAM-1	:	Endothelial cell - leucocyte adhesion molecule-1
ELCF	:	Epidermal lymphocyte chemotactic factor
ELDIF	:	Epidermal cell derived lymphocyte differentiating factor
EPR	:	Early phase reaction

F

Fc	:	Fragment crystallizable
Fc R	:	Fragment crystallizable receptor
Fc ϵ R	:	Fc receptor specific for IgE
Fc γ R	:	Fc receptor specific for IgG
FGF	:	Fibroblast growth factor
fLC	:	Freshly isolated Langerhans cell
FS	:	Fogo selvagem

G		
γ	:	Gamma
GALT	:	Gut-associated lymphoid tissue
G-CSF	:	Granulocyte colony-stimulating factor
GM-CSF	:	Granulocyte-macrophage colony-stimulating factor
Gp	:	Glycoprotein
GSE	:	Gluten-sensitive enteropathy
GVHD	:	Graft-versus-host disease
H		
HECA-452	:	Human endothelial cell differentiation antigen 452
HIV	:	Human immunodeficiency virus
HLA	:	Human leucocyte antigen
HMW-g	:	High molecular weight glutenine
HRF	:	Homologous restriction factor
HSV	:	Herpes simplex virus
HTLV-1	:	Human T-lymphotropic virus type 1
I		
Ia	:	Immune associated
ICAM-1	:	Intercellular adhesion molecule-1
IEM	:	Immuno-electron microscopy
IFN	:	Interferon
Ig	:	Immunoglobulin
IIF	:	Indirect immunofluorescence
IL	:	Interleukin
IL-1R	:	Interleukin-1 receptor
IL-2R	:	Interleukin - 2 receptor
K		
KC	:	Keratinocyte
kDa	:	Kilo dalton
KLIF	:	Keratinocyte derived lymphocyte inhibitory factor
KTP-1	:	Keratinocyte transcriptional protein-1
L		
LAK	:	Lymphokine activated killer (cells)

LC	:	Langerhans cell
LDL	:	Low density lipoprotein
LEC-CAM	:	Leucocyte-endothelial cell-cell adhesion molecule
LFA	:	Lymphocyte-function associated antigen
LPR	:	Late phase reaction
LPS	:	Lipopolysaccharide
M		
mAb	:	Monoclonal antibody
MAC 1	:	Macrophage integrin 1
MAF	:	Macrophage-activating factor
MAGE	:	Melanoma gene
MCAF	:	Monocyte chemotacting and activating factor
MCP	:	Membrane cofactor protein
MCSF	:	Macrophage colony stimulating factor
MF	:	Mycosis fungoides
MHC	:	Major histocompatibility complex
MLR	:	Mixed lymphocyte reaction
mRNA	:	Messenger ribonucleic acid
N		
NAD	:	Non-atopic dermatitis
NHL	:	Non-Hodjkin lymphoma
NK	:	Natural killer cell
P		
PCNA	:	Proliferating cell nuclear antigen
PCR	:	Polymerase chain reaction
PDGF	:	Platelet - derived growth factor
PG	:	Pemphigoid gestationis
PF	:	Pemphigus foliaceus
PHA	:	Phytohemagglutinin
PLE	:	Polymorphous light eruption
PTK	:	Protein tyrosine kinase
PUVA	:	Psoralen and UVA radiation
PsV	:	Psoriasis vulgaris
PWM	:	Pokeweed mitogen

R		
RAST	:	Radio-allergosorbent test
Rhu IL-1R	:	Recombinant human IL-1 receptor
Ro/SSA	:	Sjogren's syndrome antibody to RNA
RNA	:	Ribonucleic acid
RNP	:	Ribonucleoprotein
S		
SAF	:	Sézary T cell activating factor
SALT	:	Skin-associated lymphoid tissue
SCC	:	Squamous cell carcinoma
SIS	:	Skin immune system
SLE	:	Systemic lupus erythematosus
T		
Tac	:	T cell activation receptor
TCR	:	T cell receptor
TGF	:	Tumor growth factor
TH	:	T helper cell
TNF	:	Tumor necrosis factor
U		
UCA	:	Urocanic acid
UVA	:	Ultraviolet light A
UVB	:	Ultraviolet light B
UVB-R	:	UVB - resistant
UVB-S	:	UVB - susceptible
V		
V	:	Variable region
VCAM	:	Vascular cell adhesion molecule
VLA	:	Very late activation antigen
VZV	:	Varicella-zoster virus
W		
WB	:	Western blot analysis

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INTRODUCTION

The aim of this work is to give an over-review of the recent immunological aspects of the skin and their relation to disease production.

Chapter I