

Table of Contents

Table of illustrations	2
Abbreviations	5
Summary - Résumé.....	11
Introduction.....	17
1. Psoriasis.....	18
1.1 Epidemiology	18
1.2 Histopathological findings	19
1.3 Clinical features	21
1.4 Pathophysiology	30
1.5. Imiquimod-induced skin inflammation	52
1.6 Treatments	60
2. JNK1.....	75
2.1 Generalities	75
2.2 Role of JNK1 in innate immune signaling.....	78
2.3 Role of JNK1 in immune related diseases	82
2.4 Role of JNK1 in metabolic diseases	84
2.5 Role of JNK1 in infectious diseases	85
2.6 Role of JNK in skin homeostasis	88
3. The EGFR pathway	91
3.1 EGFR expression	91
3.2 EGFR ligands.....	92
3.3 EGFR signal transduction.....	92
3.4 EGFR, c-Jun and the skin	93
3.5 EGFR pathway in psoriasis.....	94
Aim of the study	97
Experimental Section - Results	99
1. Evaluation of the role of JNK1 in an imiquimod-induced skin inflammation model.	100
2. Evaluation of the role of JNK1 in an acute epicutaneous <i>Candida albicans</i> infection.	130
Discussion	137
1. What is the contribution of JNK1 to IL-17R signaling?	138
2. What is the role of JNK1 in the context of the imiquimod-induced skin inflammation model?	142
3. Perspectives.....	147
References	149