

Appendix 1. Upregulated signaling pathways in *Candida albicans* keratitis compared with mock controls.

Pathway	Upregulated genes (≥4.0-fold)	Symbol	GenBank Accession	Fold change
Leukocyte extravasation signaling	Matrix metalloproteinase 13	<i>MMP13</i>	AK150728	375.4
	Matrix metalloproteinase 8	<i>MMP8</i>	AK089234	102.5
	Matrix metalloproteinase 9	<i>MMP9</i>	AF000957	74.3
	Integrin alpha L	<i>ITGαL</i>	AF065901	44.3
	Chemokine (C-X-C) receptor 4	<i>CXCR4</i>	AB000803	43.7
	Selectin, platelet ligand	<i>SELPLG</i>	AK089188	27.5
	RAS-related C3 botulinum substrate 2	<i>RAC2</i>	AF048696	26.6
	Matrix metalloproteinase 12	<i>MMP12</i>	AK089295	24.8
	Neutrophil cytosolic factor 4	<i>NCF4</i>	AK150510	24.8
	Tissue inhibitor of metalloproteinase 1	<i>TIMP1</i>	BC008107	22.2
	Integrin beta 2	<i>ITGβ2</i>	AK088435	21.9
	Matrix metalloproteinase 10	<i>MMP10</i>	AK020292	21
	Rho GTPase activating protein 9	<i>ARHGAP9</i>	AK047280	16.7
	Neutrophil cytosolic factor 1	<i>NCF-1</i>	AK149668	16.1
	Moesin	<i>MSN</i>	AK031171	14.3
	Neutrophil cytosolic factor 2	<i>NCF-2</i>	AB002664	13.9
	Vav 1 oncogene	<i>VAV1</i>	AK088586	13.1
	Wiskott-Aldrich syndrome homolog	<i>WAS</i>	U29673	10.5

NF- κ B signaling	Phosphoinositide-3-kinase, regulatory subunit 5,	<i>PIK3R5</i>	AK029201	10.3
	Intercellular adhesion molecule	<i>ICAM1</i>	AK149748	8.1
	Phosphoinositide-3-kinase catalytic gamma polypeptide	<i>PIK3Cγ</i>	AC140314	7.3
	Chemokine (C-X-C) ligand 12	<i>CXCL12</i>	AK045092	5.5
	Phosphatidylinositol 3-kinase catalytic delta polypeptide	<i>PIK3CD</i>	AF532989	5.4
	Cytochrome b-245, beta polypeptide	<i>CYBB</i>	AK033570	5.3
	CD44 antigen	<i>CD44</i>	AJ251594	5.3
	Matrix metalloproteinase 19	<i>MMP19</i>	AF153199	5.2
	Cytoplasmic tyrosine kinase, Dscr28C related	<i>TEC</i>	AF071935	4.7
	Actinin, alpha 1	<i>ACTN1</i>	AK037382	4.5
	Interleukin 1 beta	<i>IL-1β</i>	AK156396	136.8
	Interleukin 1 receptor antagonist	<i>IL-1RN</i>	AF001795	62.5
	Interleukin 1 receptor, type II	<i>IL-1R2</i>	AC161534	40.6
	Tumor necrosis factor receptor superfamily member 11b	<i>TNFRSF11B</i>	AB013898	20.1
	Tumor necrosis factor receptor superfamily member 1b	<i>TNFRSF1B</i>	AK004752	17.5
Tumor necrosis factor	<i>TNF</i>	AB039224	14.8	
Tumor necrosis factor	<i>TNFAIP3</i>	AC102657	12.1	

factor, alpha-induced protein 3			
Toll-like receptor 6	<i>TLR-6</i>	AB020808	11.3
Tumor necrosis factor (ligand) superfamily member 11	<i>TNFSF11</i>	AB008426	11.2
Interleukin 1 alpha	<i>PIK3R5</i>	AK029201	10.3
Mucosa associated lymphoid tissue lymphoma translocation gene 1	<i>MALT1</i>	AC102240	9.7
Nuclear factor of kappa light chain gene enhancer in B- cells inhibitor, alpha	<i>NFκB1α</i>	AK089215	9.3
Interleukin-1 receptor-associated kinase 3	<i>IRAK3</i>	AF461763	9.1
Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	<i>NFκB1ε</i>	AF030896	8.7
Toll-like receptor 1	<i>TLR-1</i>	AF316985	8.4
Toll-like receptor 2	<i>TLR-2</i>	AF124741	8.2
Avian reticuloendotheliosis viral oncogene related B	<i>RELB</i>	AK146932	6.1
Interleukin 1 alpha	<i>IL-1α</i>	AF010237	5.9
B-cell leukemia/lymphoma 3	<i>BCL3</i>	AF067774	5.7
Phosphatidylinositol 3-kinase catalytic delta polypeptide	<i>PIK3CD</i>	AF532989	5.4
Interleukin 1 family member 9	<i>IL-1F9</i>	AK081783	4.9
Interleukin 1	<i>IL-1R1</i>	AC135085	4.8

	receptor, type I			
	Toll-like receptor 4	<i>TLR4</i>	AF095353	4.7
	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2	<i>NF-κB2</i>	AF135125	4.6
IL-10 signaling	Interleukin 6	<i>IL-6</i>	AK089780	245.4
	Interleukin 1 beta	<i>IL-1β</i>	AK156396	136.8
	Chemokine (C-C) receptor 1	<i>CCR1</i>	AK031109	82.4
	Suppressor of cytokine signaling 3	<i>SOCS3</i>	AF117732	78.1
	CD14 antigen	<i>CD14</i>	AB039054	63.6
	Interleukin 1 receptor antagonist	<i>IL-1RN</i>	AF001795	62.5
	Arginase type II	<i>ARG2</i>	AF032466	57.7
	Interleukin 1 receptor, type II	<i>IL-1R2</i>	AC161534	40.6
	Interleukin 10 receptor, alpha	<i>IL-10Rα</i>	AK137663	20.4
	Heme oxygenase (decycling) 1	<i>HMOX1</i>	AK150934	20.1
	Tumor necrosis factor	<i>TNF</i>	AB039224	14.8
	Nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	<i>NF-κBIα</i>	AK089215	9.3
	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	<i>NF-κBIε</i>	AF030896	8.7
	Interleukin 4 receptor, alpha	<i>IL-4R</i>	AF000304	8
	Interleukin 1 alpha	<i>IL-1α</i>	AF010237	5.9
	B-cell leukemia/lymphoma 3	<i>BCL3</i>	AF067774	5.7

	Lipopolysaccharide binding protein	<i>LBP</i>	AA207419	5.3
	Interleukin 1 family member 9	<i>IL-1F9</i>	AK081783	4.9
	Interleukin 1 receptor, type I	<i>IL-1R1</i>	AC135085	4.8
IL-6 signaling	Interleukin 6	<i>IL-6</i>	AK089780	245.4
	Interleukin 1 beta	<i>IL-1β</i>	AK156396	136.8
	CD14 antigen	<i>CD14</i>	AB039054	63.6
	Interleukin 1 receptor antagonist	<i>IL-1RN</i>	AF001795	62.5
	Interleukin 1 receptor, type II	<i>IL-1R2</i>	AC161534	40.6
	Tumor necrosis factor receptor superfamily member 11b	<i>TNFRSF11B</i>	AB013898	20.1
	Tumor necrosis factor receptor superfamily member 1b	<i>TNFRSF1B</i>	AK004752	17.5
	CCAAT/enhancer binding protein, beta	<i>CEBPβ</i>	AB012278	15
	Tumor necrosis factor	<i>TNF</i>	AB039224	14.8
	Nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	<i>NF-κBIα</i>	AK089215	9.3
	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	<i>NF-κBIϵ</i>	AF030896	8.7
	Interleukin 1 alpha	<i>IL-1A</i>	AF010237	5.9
	B-cell leukemia/lymphoma 3	<i>BCL3</i>	AF067774	5.7
	Tumor necrosis	<i>TNFαIP6</i>	AK139985	5.4

	factor alpha induced protein 6			
	Lipopolysaccharide binding protein	<i>LBP</i>	AA207419	5.3
	Interleukin 1 family, member 9	<i>IL-1F9</i>	AK081783	4.9
	Interleukin 1 receptor, type I	<i>IL-1R1</i>	AC135085	4.8
Acute phase response signaling	Interleukin 6	<i>IL-6</i>	AK089780	245.4
	Interleukin 1 beta	<i>IL-1β</i>	AK156396	136.8
	Suppressor of cytokine signaling 3	<i>SOCS3</i>	AF117732	78.1
	Serum amyloid A 1	<i>SAA1</i>	AF354288	67.3
	Interleukin 1 receptor antagonist	<i>IL-1RN</i>	AF001795	62.5
	Serine peptidase inhibitor	<i>SERPINE1</i>	AK040662	26.5
	Interleukin 1 receptor accessory protein	<i>IL-1RAP</i>	AC154234	25.2
	Heme oxygenase 1	<i>HMOX1</i>	AK150934	20.1
	Tumor necrosis factor receptor superfamily member 11b	<i>TNFRSF11B</i>	AB013898	20.1
	Tumor necrosis factor receptor superfamily member 1b	<i>TNFRSF1B</i>	AK004752	17.5
	Ceruloplasmin	<i>CP</i>	AK014835	16.1
	CCAAT/enhancer binding protein beta	<i>CEBPβ</i>	AB012278	15
	Tumor necrosis factor	<i>TNF</i>	AB039224	14.8
	Nuclear factor of kappa light chain gene enhancer in B-	<i>NF-κBIα</i>	AK089215	9.3

cells inhibitor alpha			
Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	<i>NF-κBIϵ</i>	AF030896	8.7
Serine peptidase inhibitor	<i>SERPINA3</i>	BC013651	7.6
Complement factor B	<i>CFB</i>	AK098094	7.5
Phosphoinositide-3-kinase catalytic gamma polypeptide	<i>PIK3Cγ</i>	AC140314	7.3
Interleukin 1 alpha	<i>IL-1α</i>	AF010237	5.9
B-cell leukemia/lymphoma 3	<i>BCL3</i>	AF067774	5.7
Phosphatidylinositol 3-kinase catalytic delta polypeptide	<i>PIK3CD</i>	AF532989	5.4
Lipopolysaccharide binding protein	<i>LBP</i>	AA207419	5.3
Interleukin 1 family member 9	<i>IL-1F9</i>	AK081783	4.9
Interleukin 1 receptor, type I	<i>IL-1R1</i>	AC135085	4.8