

C-TYPE LECTIN RECEPTOR SIGNALING PATHWAY Dendritic cell, macrophage, neutrophil, etc LSP-1 — +p Ras ► Raf-1 **▶** p65 p65 - RELB ► IL-12 IL-1β RELB **►** IKKα ► NIK p52 IL-2 Egr2/3 ► CnACnB NFAT IL-10 Cox-2 IP3R IL-1β SHP2 β-Glucan_O— ▶ Dectin-1 ERK PLCy2 **P**O-ROS ► NLRP3 ASC **►** Casp1 ► Casp8 ASC pro-IL-1β TNF ИЕМО ІККоф IL-6 IL-12 CBLB Th1 Th17 cell differentiation **►** PKCδ +p CARD9 Bel10 MALT1 **→** IκBα p50 p50 IL-10 IL-23 O PGE2 Mannose 🔿 **→** p38 ►Dectin-2 ManLAM O Th17 cell differentiation FcRy ► CARD9 Bcl10 MALT1 **▶** JNK AP-1 ► AP-1 **→** IL-12 Syk Lipoarabinomannan (LAM) biosynthesis SHP2 **→** ERK NEMO p65 p65 IL-6 IL-23 Mannose O **→** ΙκΒα **▶**DC-SIGN RHOA Pak1 ІΚКαβ p50 pioIL-1β TNF ManLAM O KSR1 LSP-1 LARG Raf-1 p65 p50 IL-6 p65 CNK1 IL-10 p50 IL-12 IRF9 Fucuse O-**▶**DCSIGN — Tfh cell differentiation IKKε ► STAT1 IL-27 STAT1 STAT2 LSP-1 +p MK2 IL-10 p50 CCL17 CCL22 BCL-3 CYLD BCL-3 p50 IL-6 Th2 cell differentiation IL-12 IL-23 TDM O Mincle Mannose O ► CARD9 Bcl10 MALT1 ► MDM2 FcRy ► MDM2 Syk IL-12 IRF1 Th1 Th2 cell differentiation TDM O-**►** MCL FcRy Mincle IL-6 IL-23 NEMO p65 рб5 р50 Syk CARD9 Bcl10 MALT1 **►** IκBα TDM Op50 IL-12 IL-1β MCL IKКαВ ► Th1 Th17 cell differentiation FcRy

►CALM -

► CnACnB

►NFAT

►O Ca²⁺

ER

► IP3R

Rhodocytin O-

04625 7/13/18 (c) Kanehisa Laboratories

→ CLEC2

Syk

► PLCy2

-► NFAT

→ IL-27