Bacterial elicitors bind to recognition molecules. PGRPs recruit IMD. Rel translocates to nucleus and activates expression of AMPs (e.g., Defensin, Cecropin).

Def
Cec

Bacterial elicitors bind to recognition molecules. After spz-binding, Toll recruits MyD88, pelle, tube. Cactus is phosphorylated. Dorsal is released.

Cactus
Dor
Dor

Toll pathway

Viruses bind to unknown recognition molecules, which trigger JAK/STAT pathway. JAKs become activated and phosphorylate the domeless receptor. Stat proteins then bind to the receptor, and are phosphorylated.

JAK
Domeless
STAT
Stat
P

JAK/STAT pathway

Apoptosis
Rel
IMD
Tab
Rel processing
Kenny

IMD/JNK pathways

Rel activation of JNK pathway
PGRPs recruit IMD.

Cell membrane
Nucleus