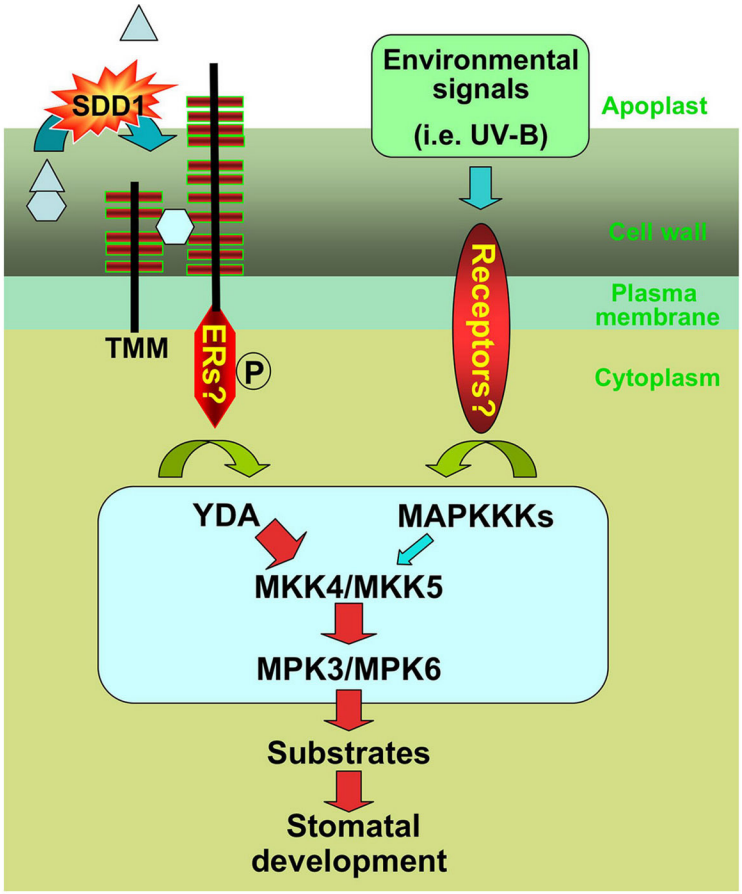

Supplemental Figure 6. **A model depicts the function of YDA-MKK4/MKK5-MPK3/MPK*6* in stomatal development.** YDA was shown to function downstream of TMM. It is tempting to propose that YDA-MKK4/MKK5-MPK3/MPK6 functions downstream of SDD1, TMM, ER, ERL1, and ERL2 in regulating position-dependent intercellular signaling during stomatal development and patterning. Putative ligands processed by SDD1 activate TMM, together with ERECTA and its paralogs (ERLs), which then activate the YDA-MKK4/MKK5-MPK3/MPK6 cascade that regulates multiple steps of stomatal development and patterning. Environmental signals may impinge on the MKK4/MKK5-MPK3/MPK6 module and fine-tune the development of stomata.