Table 2. Dimensionless groups of the model and their reference values

Parameter	Description	Reference value
χ	time scale of constitutive deactivation of MPK-1*	1
	time scale of lateral signal-mediated deactivation of MPK-1*	
Ψ	time scale of MPK-1*-mediated downregulation of lateral signal	$2.8 \times 10^1$
	time scale of constitutive deactivation of MPK-1*	
μ	time scale of constitutive deactivation of MPK-1*	$2 \times 10^1$
	time scale of induced activation of MPK-1*	
$\lambda_{ m d}$	time scale of constitutive deactivation of MPK-1*	$2.4 \times 10^{-2}$
	time scale of constitutive downregulation of lateral signal	
$\lambda_{\mathrm{s}}$	time scale of constitutive deactivation of MPK-1*	$3.9 \times 10^{-4}$
	time scale of constitutive synthesis of a characteristic amount of lateral signal	
$\kappa_{_{ m M}}$	dimensionless threshold for activation of lateral signal by MPK-1*	$2.5 \times 10^{-1}$
$\kappa_{_{ m L}}$	dimensionless threshold for MPK-1* inhibition by lateral signal	$2.5 \times 10^{-1}$