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Dung Le*, Department of Mathematics, One UTSA Circle, San Antonio, TX 78249. *On multi-species and cross diffusion.*

Reaction diffusion systems have been used in biological/ecological models and ignored the diffusion rates of individuals of species depend on the concentration of individuals of the same species (self-diffusion), or of the other species (cross diffusion). We will discuss the introduction of cross diffusion, the models, their analysis and open problems. (Received September 01, 2017)