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## Some Reaction-Diffusion Models Arising in Pattern Formation

**V. Calvez**

*Ecole Normale Supérieure  
Paris, France*

We will present in this talk some models involving Partial Differential Equations for pattern formation in biology. Starting from the chemical viewpoint (particularly the Turing instability) we will focus on cell movement models, especially concerning the spatial organization of the amoeba *Dictyostelium discoideum* and wound healing.

This presentation does not require any specific knowledge about PDEs techniques: this will be essentially a description of models and the numerical results associated.

- Belousov-Zhabotinskii reaction and oscillators.
- Fisher equation and travelling waves.
- Turing instability.
- Chemotaxis.
- Reaction diffusion on a growing domain.
- Wound healing.