

**Modelling of the anisotropic biological systems**

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The author gives a review of many types of models and model experiments existing in exact sciences especially in biology. One of the properties of many parts of living systems is their oriented anisotropic structure. These structures can be considered to be liquid crystals - so liquid crystals are a good model of the anisotropic biological systems. Investigations of liquid crystals properties using different measuring techniques give us a lot of information concerning many processes occurring in living organisms.