

# Comparative methodologies for biological signal modeling

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The modeling of biological intracellular signaling mechanisms has generally employed differential equations to trace and predict results.

In our work we investigate additionally alternative methods - namely software agents and cellular automata - with a view to investigating whether the accuracy of the predictions may be increased.

In bone rebuilding, osteoclasts and osteoblasts signal each other via a complex system of biological messengers. A closer analysis of this system may help in understanding certain diseases which emerge when faults appear.

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