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For other purposes, see [In Silico \(disambiguation\)](#). The forest of synthetic pyramidal dendrites generated in silico using the laws of Cajal neuronal branching [In silico](#) (Pseudo-Latin for in silicon, hinting at the mass use of silicon for computer chips) is an expression meaning performed on a computer or through computer simulations in connection with biological experiments. The phrase was coined in 1987 as an allusion to Latin phrases *in vivo*, *in vitro* and *in situ*, which are widely used in biology (see also systemic biology) and refer to experiments conducted in living organisms, outside living organisms, and where they occur in nature, respectively. The story's earliest known use of the phrase was Christopher Langton to describe artificial life, in announcing a seminar on the subject at the Center for Nonlinear Studies at the Los Alamos National Laboratory in 1987. The expression of silico was first used to characterize biological experiments conducted entirely on a computer in 1989, in the Cell Automation: Theory and Applications workshop in Los Alamos, New Mexico, pedro Miramontesa, a mathematician from the National Autonomous University of Mexico (UNAM), presenting a report DNA and RNA physics and chemical limitations, cellular automation and molecular evolution. The work was later presented to Miramontes as a Ph.D. thesis. The silico was used in white papers written to support the creation of the bacterial genome programs of the Commission of the European Community. The first referring to the document where silico appears was written by the French team in 1991. The first reference to the chapter of the book, where in silico appears, was written by Hans B. Siburg in 1990 and presented during the Summer School for Integrated Systems at the Santa Fe Institute. The phrase in silico was originally applied only to computer modeling, which is modeled by natural or laboratory processes (in all natural sciences), and did not refer to calculations made by the computer in general form. The discovery of drugs with virtual screening [Home article](#): Virtual screening of V Silico research in medicine is believed to have the potential to speed up the opening rate while reducing the need for expensive laboratory work and clinical trials. One way to achieve this is to produce and screen drug candidates more effectively. For example, in 2010, using the EADock protein docking algorithm (see Protein-ligand docking), researchers discovered potential enzyme inhibitors associated with the activity of cancer in silico. Fifty percent of the molecules were later shown as active inhibitors *in vitro*. This approach differs from the use of expensive robotic laboratories with high bandwidth (HTS) for physical testing of thousands of different compounds per day is often with an expected rate of 1% or less with even fewer expected real versions after further testing (see discovery of the drug). drug). efforts have been made to create computer models of cellular behavior. For example, in 2007, researchers developed a silico model of tuberculosis to help in the discovery of the drug, with the main advantage of it being faster than real-time simulated growth rates, allowing phenomena of interest to be observed in minutes rather than months. More work can be found that focuses on modeling a particular cellular process, such as the caulobacter crescentus growth cycle. These efforts are far from an accurate, fully predictive computer model of all cell behavior. Restrictions in understanding molecular dynamics and cellular biology, as well as the lack of available computing power, make large simplistic assumptions that limit the usefulness of those present in silico-cell models, which are very important for the study of silico cancer. The genetics of digital genetic sequences derived from DNA sequencing can be stored in sequence databases, analyzed (see sequence analysis), modified digitally or used as templates to create new actual DNA using artificial gene synthesis. Other examples of Silico computer simulation technologies have also been applied in: Analysis of whole cells of prokaryotic and eukaryotic hosts, such as e. coli, B. subtilis, yeast, CHO- or human cell lines Bioprocessor development and optimization, for example, product optimization provides modeling of cancer clinical trials using a grid of computing infrastructure, such as the European grid infrastructure, to improve the effectiveness of analysis, interpretation and visualization of heterological data sets from various sources, such as the genome, transcript or protein design. One example is RosettaDesign, a software package under development and free for academic use. See also the Virtual Screening of Computational Biology Computational Biomodation Computer Experiment Folding@home Cellular Models of Non-Clinical Research In Silico Molecular Design Programs in Silico Medicine Dry Laboratory Links - Google Groups. groups.google.com. received 2020-01-05. Hameroff, S.R. (2014-04-11). 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