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# HISTORY OF SCIENCE: THE BIRTH OF THE DIGITAL TWIN IN ONCOLOGY AND THE DEVELOPMENT OF THE ONCOSIMULATOR

Presentation of the 1st early digital twin in oncology and beyond at the US NCI - ICBP meeting in 2007 by Georgios Stamatakos from the National Technical University of Athens (NTUA)

On 10th April 2007 a Boston (Athens of America) meeting of the US NCI- ICBP took place at MGH, Dept. of Radiology, Athinoula A. Martinos Center for Biomedical Imaging, Bldg. 149, 13th Street, Charlestown, MA 02129. The meeting was organized by Daniel Gallahan, then Program Officer, NCI - The National Institutes of Health (<https://www.linkedin.com/company/national-institutes-of-health/>) (NIH) and Dr Thomas Deisboeck, then Assoc. Professor, Harvard Medical School (<https://www.linkedin.com/company/harvard-medical-school/>) (HMS), MGH and coordinator of the research project "Center for the Development of a Virtual Tumor (CViT)" (Project # 5U56CA113004-03, NIH-NCI).

Dr G. S. Stamatakos, Research Professor, ICCS - NTUA, School of Electrical and Computer Engineering (ECE), NTUA and member of CViT, which was scientifically sponsored by NCI, MGH, HMS and IBM (<https://www.linkedin.com/company/ibm/>), delivered the invited lecture entitled "The Clinical Oncosimulator: a multilevel, "top-down (<https://www.vph-institute.org/upload/presentation-slides-of-the-1st-digital-twin-in-onc-us-ascii-q->

ology\_633d755fc6271.pdf)", clinically oriented simulation system of tumor growth and organism response to therapeutic schemes." The Clinical Oncosimulator, of which crucial evolutionary steps followed afterwards and are still carried out, has proved the first digital twin in oncology and beyond, marking a key milestone in the evolution of in silico (computational) medicine.

It is worth noting that in silico medicine was formally introduced through the paradigm of in silico radiation oncology by G. Stamatakos in the international peer-reviewed journal "Proceedings of the IEEE (<https://www.linkedin.com/company/proceedings-of-the-ieee/>)" in 2002 (<https://lnkd.in/eayJg-RA> (<https://lnkd.in/eayJg-RA>)).

A recent update on the fascinating and ground-breaking trajectory of in silico medicine, aspiring i.a., to metamorphose medicine into a mathematical and computational science, is available through the Chinese and global AI tech community platform and magazine The Yuan (<https://www.linkedin.com/company/the-yuan/>), based in Shanghai, China. A recent interview given by Georgios S. Stamatakos to The Yuan (<https://www.linkedin.com/company/the-yuan/>) on the birth of in silico medicine in Greece and its universal evolution, primarily through the networks of the VPH Institute ([https://www.linkedin.com/company/vph\\_institute/](https://www.linkedin.com/company/vph_institute/)) and the Avicenna Alliance (<https://www.linkedin.com/company/avicenna-alliance/>), both based in Brussels, Belgium, EU, is freely accessible at (<https://lnkd.in/dMDK9SWu> (<https://lnkd.in/dMDK9SWu>)).

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[ICSB2022 \(/events/icsb2022.html\)](#)

**When:** 08/10/2022 - 10/10/2022 - **Where:** Berlin - Germany

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[ORS PSRS 6th International Spine Research Symposium \(/events/ors-psrs-6th-international-spine-research-symposium.html\)](#)

**When:** 06/11/2022 - 10/11/2022 - **Where:** Skytop, PA

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[IEEE BIBM 2022 \(/events/ieee-bibm-2022.html\)](#)

**When:** 06/12/2022 - 09/12/2022 - **Where:** Las Vegas, NV - USA

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[EFPIA multi-stakeholder workshop on the use of Digital Health Technologies \(DHTs\) in drug development \(/events/efpia-multi-stakeholder-workshop-on-the-use-of-digital-health-technologies-dhts-in-drug-development.html\)](#)

**When:** 12/12/2022 - 13/12/2022 - **Where:** On line

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