



Biography of *Francesco Di Pisa*

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Doctor with Honors in Statistical Sciences, *Alma mater* University of Rome "La Sapienza", he received a Master of Science degree in Mathematics, University of Kentucky Lexington-USA, a two year fellowship from Consiglio Nazionale delle Ricerche (CNR-Comitato Nazionale Scienze Matematiche), Rome-Italy, and a postdoc fellowship in Functional Analysis at SISSA (ISAS-International School for Advanced Studies) in Trieste, Italy.

His outstanding, internationally recognized [1, 2], activity is dedicated to Laboratory Informatics, Data Intelligence, Biostatistics, Discovery and Analysis in the fields of biology, medicine, immunology, physics and chemistry; in particular to the Design of Experiments and Complex Systems, the Development of Procedures and the Support of Activities related to laboratory outcomes and experimental results, biological assay and testing in Research, Preclinical and Clinical studies, Development, Manufacturing and Quality Control.

His mission is to provide transparent and based-on-data-evidence support to Research and Development in the aforementioned areas and in Scientific Computing by means of statistical, mathematical, engineering and information science methods, and to foster a better understanding of basic validated procedures, data intelligence management, computerized data analysis, and originally developed methodologies and systems.

Formerly *Senior Scientist*, he covered several positions in Industry: Software designer at *Olivetti* (OSAI Allen Badley-Ivrea-Torino-Italy), Researcher at *CSELT* (Centro Studi e Laboratori Telecomunicazioni-Telecom-Torino-Italy), Analyst and responsible of ERP Systems at *CCPMA* (Consorzio Cooperative-Grosseto-Italy). In 1985 he joined the *Sclavo Research Center* in Siena as Responsible of scientific computing and bioinformatics; then as Scientist at *Biocine SpA Research Centre* in Siena; as Senior Scientist & Head of Biostatistics Laboratory of Process Development Department of *Chiron SpA* Siena; and Head of the Biostatistics Unit of Technology Development and member of the Animal Ethical Committee at *Novartis Vaccines and Diagnostics* in Siena.

Professor for more than fifteen years of *Database* and *Information Systems* at the School of Informatics and at the Department of Information Engineering of the University of Siena, he is Senior Research Associate at the Center for the Study of Complex Systems (CSC), University of Siena, and member of the "Scienze Medico-Legali" research group of the Biomedical Sciences Department of the University of Siena for contributions in the fields of Mathematics & Biostatistics, Informatics, Databases and Knowledge applied to Biology, Medicine, Science and Law.

Former member of the Tumor Eye Diseases Research Center (CRISATO), Ophthalmology Department, University of Siena as Expert in the fields of Biostatistics and Information Systems in biomedicine, he has been Scientific Consultant in mathematical and computational methods for X-Ray Powder Diffractometry (XRPD) Pattern Analysis at the University of Pisa, and Scientific Consultant in Biostatistics at the "U. Schiff" Chemistry Department, PeptLab Unit, University of Florence.

Year 2013

- Member of the Animal Welfare Body, Toscana Life Sciences Foundation (TLSF), Siena.
- Externautics SpA Siena, Consultant in Biostatistics.
- Consultant in computational mathematics, XRD-Tools srl, University of Pisa.
- Speaker, Seminar "Complexity, Information & Behavior", TLS Foundation, Siena.
- Speaker, Seminar/Course "Biostatistical Analysis & Reduction", University of Siena.
- Speaker, Course/Seminar "Potenza della statistica nella Reduction", IZSLER Brescia.
- Speaker, Seminar "Ethics: Research design & Statistics", Ist. Rizzoli Bologna.
- Speaker, Seminar "Research design & Statistics", University of Modena.
- Consultant in Biostatistics c/o Scienze Oftalmologiche, University of Siena.

Patent holder (Brev.Inv.Italia 68155 A/84, 19/11/84) of "Computerized Device for inert gas saturation control in human body tissues". Silver Medal Prize for *Quality of the Invention* at the 13th International Invention Exhibition, Geneva CH, 1985.

Inventor of "Image processing System for Single Radial ImmunoDiffusion (SRID) Assay". Patent - Chiron Novartis Vaccines (worldwide European & US Patent), 2008.

Member of the American Statistical Association (ASA), the Institute of Electrical and Electronics Engineers (IEEE & Computer Society), the American Association of Artificial Intelligence (AAAI) and the Association for Computing Machinery (ACM & SIGBIO, SIGCHI, SIGART).

Fields of Interest & Research

Applications to Science and Technology of: High Performance Computational Systems, Intelligent User Interfaces; Statistical Systems, Biostatistics & Discovery, Computability and Complexity of Statistical & Mathematical methods in Physics, Chemistry, Biology and Medicine; Declarative Specification Languages, Cognitive Database Semantics and Knowledge Modelling, Agent Theory; Bioinformatics & Molecular Computing, Systems Biology, Data Mining & Learning, Web Marking Knowledge, Applied Logic & Programming for Knowledge Base Representation; Numerical Mathematics Methods & Software for Approximation, Optimization, Pattern Recognition & Imaging; Validation & Verification of Intelligent Systems.

[1] Laboratory Data Management Conference 2009, Munich - DE

[2] Smart Lab 2009 Conference, London - UK

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Francesco Di Pisa, Head of Biostatistics, Technology Development, NOVARTIS VACCINES DIAGNOSTICS



Dr. Jan Hauss, Head, Central Analytics Informatics, MERCK



Wolfgang G. Hoeck, Senior Manager, Therapeutic Area Systems, Research and Development Informatics, AMGEN



Armin Ollig, Director, Information Technologies, BIOFRONTERA



Teodor Wagner, Head Laboratory Informatics Support Team, F. HOFFMANN-LA ROCHE



Dr. Johannes Floeckner, Head of Information Systems R&D, ALMIRALL S.A.



Gerhard Noelken, Business IT Lead for Development Science and Technology in WW Pharmaceutical Science, PFIZER



Daniel Caparrós, Head of Information Technology, AETERNA ZENTARIS



Manfred Goebel, Senior European Technical Development Applications Analyst, MUNDIPHARMA



Giorgio Gatti, IS-Specialist, Research Systems, BOEHRINGER INGELHEIM ITALIA S.P.A.



Dean Flanders, Head of Informatics, NOVARTIS



Dr. Klaus Klinder, Senior Associate Director, Drug Discovery Support, Group Drug Metabolism and Pharmacokinetics, BOEHRINGER INGELHEIM GMBH

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- **Graham Mullier**, Head of Information Connection R&D IS, **Syngenta**
- **Frederik Bocklandt**, Global Program Manager IM Projects Quality, **Johnson & Johnson**
- **Jim King**, Senior Consultant, Business Systems and Processes, **Wyeth Research**
- **Mats Sundgren**, Principal Scientist, Information Strategy, Global Clinical Development, **AstraZeneca R&D**
- **Flemming Simonsen**, Senior Director - Global QA, G(IT)P, **Ferring Pharmaceuticals**
- **Jerry Lanfear**, Head of Data Support and Management, **Pfizer Global Research and Development**
- **Francesco Di Pisa**, Senior Scientist, Head Biostatistics, **Novartis Vaccines**
- **Joelle Delfour**, R&D and Scientific Systems Manager, **Total Petrochemicals Research**
- **John Trigg**, Director, **phaseFour Informatics**
- **Slava Budin-Jones**, IT Director, **GlaxoSmithKline**
- **Johannes Floeckner**, Head R&D IS, **Almirall**
- **Michael Schmidt**, Director, **Lodestone Management Consultants AG**
- **Dean Flanders**, Head of Informatics, **Novartis Research Foundation**
- **David De Roure**, Professor of Computer Science, **University of Southampton**
- **Simon Wood PhD**, Executive Director Marketing and Education, **STARLIMS Corporation**
- **Dr. Thomas Kandl**, Head Scientific Systems, **Roche**
- **Mollie Shields Uehling**, President and CEO, **SAFE-BioPharma Association**
- **Modest von Korff**, Senior Scientist, Research Informatics, **Actelion Ltd**
- **Ken Rapp**, President & CEO, **VelQuest Corporation**
- **Charlie Sodano**, Director, **eOrganizedWorld**
- **Jorg Ochsmann**, Bioinformatics & Data management, **KWS SAAT AG**
- **Hector Sanchez**, Senior Director R&D IT, **UCB**
- **Mark Beggs**, Programme Director, **Wyeth Research**



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