About the Contributors

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**Stavros Archondakis** is a certified pathologist and director of the Cytopathology Department of 401 Athens Army Hospital. He graduated from Thessaloniki Medical School and National Military Medical School in 1996. Since 2007, he was appointed assessor of the Hellenic Accreditation System (ESYD) for the accreditation of medical laboratories according to ISO 15189:2012. He speaks English and French. He is a member of Hellenic Society of Clinical Cytopathology, Society of Medical Studies, and Society for Quality Management in the Health Sector. He is the author of 29 medical books, some of them awarded by the Greek Anticancer Society. He has participated with posters and oral presentations in more than 200 congresses and seminars, he has authored more than 25 articles in greek and foreign medical journals. He possesses more than 800 hours of teaching experience in medical and paramedical schools.

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**Piero Alberto** received his Masters Degree in Computer Engineering in 2011 from Politecnico di Torino, Italy. He has been involved in the LAS (Laboratory Assistant Suite) project - a collaborative effort between IT specialists and biomedical researchers - since 2011. He started his work as a graduate candidate and pursued his activity as a software engineer at the Institute for Cancer Research and Treatment of Candiolo (IRCC). His research interests include biological data management systems. His core job focuses on the design and the development of software for managing and tracking in-vivo and in-vitro experiments in the context of the translational research pipeline based on xenopatients.

**Antonio José Balloni** received his MS and PhD from the Institute of Physics -Unicamp/Brazil-. In 1992, he was a Postdoctoral researcher at IMEC/Belgium. Since 1988, he has been a researcher at the Center for Information Technology Renato Archer -CTI/Brasil-. Since 2005 has been an invited professor by the Institute of Economics/Unicamp, Extension Courses, lecturing about MIS. From 2003 to date he has created the GESITI Project (Management of System and Information Technology towards Organizations). From 2010 to 2012 he was a member of the Scientific Technical Council at CTI/MCTI. He has published 2 books and about 40 papers regarding information technology, political science and health management. He is the General Manager of eight editions of an international GESITI workshop. He is the author of GESITI/Health book which is in publication by the Ministry of Health. In 1995 he was the Brazilian champion in basketball -Master Category. He belongs to a beekeeper family an ecologically correct endeavor with technological innovation.

**Andrea Bertotti** has a background in cancer biology, with a focus on receptor tyrosine kinase (RTK) signal transduction, oncogene addiction, and targeted therapies. Following his PhD, in which he studied the biochemical mechanisms underlying the cooperation between RTKs and adhesion molecules during cancer progression, he worked on identifying molecular traits associated with oncogene addiction. Starting 2008, he focused his research activity on translational projects, by initiating and coordinating the generation of a preclinical platform for high-fidelity anticipation of clinical findings. This resulted in a large collection of liver metastases from colorectal carcinoma, which have been transplanted in immunocompromised mice, profiled for molecular characteristics and treated with approved or investigational compounds, leading to publications in major scientific journals.

**Romeo Bishop** holds a Bachelors of Science (Honours) in Biochemistry and Pure Chemistry from The University of the West Indies, Mona, Kingston, Jamaica. Mr. Bishop was a student Research Assistant in the Sub-Department of Chemical Pathology, Department of Pathology at the University of the West Indies. He worked on a number of projects including (i) a biochemical study of creatinine kinase and lactate dehydrogenase enzymes in patients with thyroid dysfunctions, and (ii) an audit of tumour marker requests in a teaching hospital. In 2011, Mr. Bishop participated in the Shaw University Jamaica MON Project, a summer research training programme for undergraduate students. The programme was held at the Mona Campus, The University of the West Indies, and he received the Most Outstanding Student Award. Mr. Bishop is a past student of Jamaica College and enjoys reading and playing cricket.
About the Contributors

Francesco Gavino Brundu is currently a Computer Engineering PhD student at Politecnico di Torino, Italy. He obtained a Masters Degree in Computer Engineering from Politecnico di Torino in 2013. He worked as a research assistant at the Department of Control and Computer Engineering of Politecnico di Torino from June to December 2013. His research interests range from bioinformatics to computational biology, with a focus on class discovery problems, microarray data analysis, data preprocessing, and classification. He is currently working on class prediction algorithm designs and testing, making use of software engineering techniques and performance assessment.

Po-Hsun Cheng received a BS degree in information and computer engineering from Chung Yuan Christian University, Taiwan, in 1988, an MS degree in electrical engineering from the University of Southern California, California, USA, in 1992, and a PhD degree in electronics engineering from National Taiwan University, Taiwan in 2005. Since 2008, he has been a member of the faculty in the Department of Software Engineering, National Kaohsiung Normal University, Taiwan, where he is currently an associate professor. He was Deputy Director in the Information Systems Office, National Taiwan University Hospital, Taiwan. He was a visiting researcher in the Department of Computer Science and Engineering, University of California, Riverside, USA in 2000. He is a member of HL7, ACM, IEEE, IEICE, AMIA and CAMIT, a senior member of the TAMI, HL7 Taiwan and IICM. He is the Board Member of TAMI (2006-2015) and HL7 Taiwan (2006-2015). He was the Secretary General of HL7 Taiwan (2002-2006).

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Francesca Cito has a degree in Veterinary Medicine and a Specialization in Science and Medicine of Laboratory Animals from the University of Naples, Italy. From January to July 2011, she has been a veterinarian trainee assigned to the National Reference Centre for Epidemiology and Risk Analysis and the National Reference Centre for Epidemiology, Planning, Information, and Risk Analysis (COVEPI) to the Istituto Zooprofilattico dell’Abruzzo e del Molise (IZSAM). From October 2011 to date, she is working in contract at the COVEPI involved in epidemiological and risk assessment studies in food safety.
Patrizia Colangeli has a degree in Engineering from the University “La Sapienza” of Rome, Italy. She worked at a private company in the applied mathematics and economy sector in Rome and after in a Bank in Teramo. Since 1991, she has worked at the Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise (IZSAM) where she is the head of “Information systems development and management” Unit. She managed the analysis and implementation of many information systems at enterprise, regional, national and sovra-national level among which: the Animal Health National Information System (i.e. Brucellosis, Bluetongue, West Nile Disease), Laboratory information management system, Administrative and Staff information management system, the Datawarehouse enterprise, National information system for the notification of animal diseases; Zoonoses National System, Web-based application for the international surveillance of bluetongue in the European Union, OIE Bluetongue Reference Laboratories network, and the SILAB for Africa: a LIMS for African Labs currently used in Namibia, Botswana, Zimbabwe, Zambia, and Tanzania.

Fabrizio De Massis has a degree in Veterinary Medicine from the University of Bologna, Italy, and a Specialization in Animal Health, Breeding, and Production of Animal Studies at the University of Teramo, Italy. From August 2001 to March 2006, he was a veterinarian in contract, epidemiologist assigned to the National Reference Centre for Epidemiology and Risk Analysis and the National Reference Centre for Brucellosis to the Istituto Zooprofilattico dell’Abruzzo e del Molise (IZSAM). From March 2006 to June 2009 he was the Seconded National Expert at the European Food Safety Authority to the Unit of Animal Health Welfare. He has been a permanent veterinary officer since April 2009. He directed the IZSAM laboratory of Isernia (from November 2009 to January 2011) and the IZSAM laboratory of Avezzano (from January to August 2011). He has been involved in the coordination and supervision of the activities of the laboratories of the above diagnostics sections. From August 2011 to October 2012, he directed the department of sample acceptance and control in the IZSAM’s headquarters. From November 2012 to date, he is working at the National Reference Centre for Epidemiology, Planning, Information, and Risk Analysis (COVEPI) at IZSAM.

Alessandro Fiori holds a Masters Degree in Computer Engineering from Politecnico di Torino, and the European PhD degree from Politecnico di Torino, Italy. He has been project manager of the LAS (Laboratory Assistant Suite) project at the Institute for Cancer Research and Treatment of Candiolo (IRCC), Italy since January 2012. His research interests are in the field of data mining, in particular bioinformatics and text mining. His activity is focused on the development of information systems and analysis frameworks oriented to the management and integration of biological and molecular data. His research activities are also devoted to text summarization and social network analysis.
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Beáta Gavurová works as an associate professor in the Faculty of Economics at the Technical University of Košice. In her science-research work, she focuses mainly on measuring and performing management in the organizations and process management. The results of her research are presented in various Professional and scientific journals, as well as in domestic and international conferences. Achieved results are being applied also in her pedagogical practice at all levels of education. She is an author and co-author of 5 scientific monographs, several chapters in monographs and a number of international publications. She participated in the solution of the VEGA project in the area of implementation and usage of Business intelligence in organizations in Slovakia, as well as in projects oriented on the measurement of efficiency and quality of healthcare facilities in Slovakia, in international projects: eBEST - “Empowering Business Ecosystems of Small Service Enterprises to face the economic crisis,” 7th Framework Programme FP7-SME-2008-2 a DEN4DEK - “Digital Ecosystems Network of regions for DissEmination and Knowledge deployment,” and Competitiveness and Innovation Framework Programme CIP-ICT-PSP-224976.

Emanuele Geda holds a Masters Degree in Computer Engineering from Politecnico di Torino, Italy. He has worked as a software engineer and developer at the Institute for Cancer Research and Treatment of Candiolo (IRCC), Italy since January 2012. He has been involved in the LAS (Laboratory Assistant Suite) project - a collaborative effort between IT specialists and biomedical researchers - since 2011. During his work, he has modeled and implemented complex database systems for the management of biological samples, laying the foundations for a biobanking software platform. Furthermore, he has designed and developed a system for managing the physical storage of biological materials within IRCC.

Andrew Georgiou is a Senior Research Fellow at the Centre for Health Systems and Safety Research, part of the Australian Institute of Health Innovation at the University of New South Wales. Andrew has worked extensively in the area of pathology IT systems, contributing over 40 papers and studies to the area. He was a member of the Scientific Program Committee of the first World Congress of Pathology Informatics held in Brisbane in 2007 and a member of the Scientific Program Committee for the 13th World Congress on Medical Informatics held in Cape Town, South Africa in 2011. Andrew is an Editorial Board member of the Open Medical Informatics Journal, Journal of Pathology Informatics, Health Care Informatics Review and the International Journal of Medical Informatics. He is currently the co-Chair of the International Medical Informatics Association Working Group on Technology Assessment and Quality Development (2013).
Alberto Grand holds a Masters Degree in Computer and Electrical Engineering from Politecnico di Torino and the University of Illinois at Chicago, and a PhD in Computer and Systems Engineering from Politecnico di Torino. His research interests are in the fields of data management systems and data mining, with a focus on large-scale data management, data integration, and biological and molecular data annotation. Since March 2013, he has been assistant coordinator in the development of an information system for the management, integration, and analysis of biological and molecular data at the Institute for Cancer Research and Treatment of Candiolo (IRCC), Italy.

Güney Gürsel was born in 1972 in İzmir, Turkey. He graduated from the Military Academy in 1994 as a systems engineer. He received his MSc degree in information systems field in 2003 from the Middle East Technical University (METU), and PhD in Medical Informatics field in 2012 again from METU. He is working in the Department of Medical Informatics, Gülhane Military Medical Academy, as medical informatics specialist. He speaks advanced English. He is working in the fields of Healthcare Information Systems (HIS), Evaluation of HIS, End user expectations from HIS, Fuzzy logic application in HIS, and Interoperability in HIS. He is married and has two kids.

Petros Karkalousos is a lecturer at the Technological and Educational Institute of Athens (TEI of Athens). He teaches clinical chemistry, immunology and analysis of biological fluids. He is also a visiting professor to the Hellenic Open University where he teaches the lesson «special topics of quality». He is also an assessor of the Greek Accreditation Organisation, specialised in ISO 15189. He has studied Biomedical Science (Bsc), Biology (Bsc), Applied Statistics (Msc), and he has PhD in quality control. He has worked for sixteen years in the clinical laboratories of public hospitals. Apart from his work in the TEI of Athens, he is also a quality manager of a private clinical laboratory in Athens.

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Donovan McGrowder holds a Bachelor of Science (Honours) and Doctor of Philosophy (PhD) degree in Biochemistry and Chemistry and Biochemistry respectively from The University of the West Indies, Mona, Kingston, Jamaica. Dr. McGrowder also holds a Masters of Science degree from the University of Westminster, London, UK and a Masters of Arts in Psychology and Counseling from St. Stephens College, Alberta, Canada. He also has post-graduate training and experience in Clinical Biochemistry and Molecular Biology. Dr. McGrowder joined the staff of The University of the West Indies, Mona, in 2001 as a Research Fellow in the Department of Basic Medical Sciences – Biochemistry Section and was promoted to Lecturer in 2003 and Senior Lecturer in 2009. He is also Consultant of Chemical Pathology at the University Hospital of the West Indies. He is a Fellow of the Institute of Biomedical Science, UK, Fellow of the Royal Society of Tropical Medicine and Hygiene, UK, and a Member of the Institute of Health Promotion and Education, UK.

Maria Teresa Mercante is a biologist, graduate at the University of L'Aquila in 1988, and she has held the license to practice as a biologist since 1990. Since 1993, she has been employed as an executive at the Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise (IZSAM). From 1993 to 1999, she worked at serology laboratory, and she carried out the production of monoclonal antibodies and the preparation of the registration dossier of vaccines. From 1999 to 2003, she worked at the quality assurance and control Unit, where she carried out the quality control and quality assurance in laboratory accreditation according to ISO/IEC 17025. From February 2003 to May 2004, she carried out the supervision and control of activities of the clinical biochemistry laboratory. She was employed as coordinator and supervisor of the serums and vaccines production laboratory from 2004 to 2009, in particular, from January 2006 to July 2009, she was Head of the viral vaccines, serums and diagnostics production department. Since July 2009, she has worked at the ReceptionUnit, where she is the reference person of the laboratory information system (SILAB).

Sappho Michael holds a BSc in Cell and Molecular Biology from Oxford Brookes University, UK, and an MSc in Human Reproductive Biology from Imperial College, UK. Returning to Cyprus, she first worked as a researcher at the Cyprus Institute of Neurology and Genetics, in the frame of a research programme on Thalassaemia A. She was then employed at the Haematology Laboratory of the Nicosia General Hospital and was later transferred to the Blood Establishment in Nicosia. There, she was responsible for the Quality Management programme. Since 2010, she has been working at the Ministry of Health as a member of the Competent Authority which regulates the activities of the Blood Services in Cyprus. She was trained in Quality Assurance and Accreditation and, since 2004, she is a Technical Expert at the Cyprus Accreditation Body.
Lucilla Ricci has a degree in Biological Sciences from the University of L’Aquila, Italy. From November 1985 to February 1989, she attended the Laboratory of Microbiology at the Faculty of Medicine and Surgery at the University of L’Aquila and acquired microbiological techniques dealing with the production of B- Iattamasi by Gram-negative, the bacterial resistance and techniques of in vitro mutagenesis by using mutagenic substances such as nitroso - guanidine. Later on, from 1989 to 1990, she dealt with cytological and bacteriological exams in the human field, microbiological exams of food, drinking water and wastewater. She taught from November 1989 to June 1992, mathematics, chemistry, biology, and astronomical geography, and since 1997, she is the chair of mathematics, chemical, and physical sciences. From 1992 to the 1993, she dealt with veterinary diagnostic bacteriology and food hygiene. Since December 1993, she has been working at the Quality Management Department at the Istituto Zooprofilattico Sperimentale dell’Abruzzo e Molise (IZSAM). From March 2005 to May 2007, she was Responsible for the Quality at the Italian Ministry of Health. She participated as an expert of ISO 17025, ISO 17020 ISO 19011 and ISO 9001 in several international projects.

Domenico Schioppa holds a Masters Degree in Computer Engineering from Politecnico di Torino, Italy. He has worked as a software engineer and developer at the Institute for Cancer Research and Treatment of Candiolo (IRCC), Italy since July 2013. His research interests include biological data management systems, with a focus on data security and role-based access control. In particular, he has contributed to the development of the LAS (Laboratory Assistant Suite) software – a collaborative effort between IT specialists and biomedical researchers – with the design and implementation of a data access control layer enforcing different privacy policies on a per-user basis.

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Vincent Šoltés is an expert in the field of financial derivatives, mainly on options and option strategies. He has been working as a dean of the Faculty of Economics at the Technical University in Kosice, Slovakia. His scientific field of interest is risk management and financial derivatives, hedging against interest and foreign exchange risks. He worked in a number of projects within the Slovakia and also several projects within 5th and 6th Framework programs. His research area is financial markets, financial derivatives, financial mathematics, quantitative methods in economics, portfolio analysis, and foreign direct investments. He is also interested in the issue of real and nominal convergence of Slovak’s economy in the view of the development of the EU countries. He teaches the subjects Financial Derivatives, Financial Markets, and Financial Mathematics. He is an author of a large number of books and articles in scientific journals.

Kyriacos Tsimillis holds a BSc and a PhD in Chemistry from the University of Athens. His postgraduate studies were carried out at the Nuclear Research Center “Demokritos.” After a six-year period of lecturing at the Physical Chemistry Department of the University of Athens, he was involved in standardization and certification activities in Cyprus for twenty years, followed by twelve years of active involvement in accreditation activities until his recent retirement (December 2013). In 2005, he became the Coordinator and in 2009 the Director of the Cyprus Accreditation Body. Since 1997, he represents Cyprus in Eurachem, including a two-year period as its Chair (2008-2010); he also represented Cyprus in Eurolab and the Euromed Quality Programme. He is the author of research papers and review articles and a co-author of books on Quality. He was an invited speaker in seminars, workshops and conferences. He organized a lot of training activities and awareness events.

Fikriye Uras is a professor of biochemistry and clinical chemistry at Marmara University, Istanbul, Turkey. She is a former director of the Clinical Biochemistry Laboratory at the International Hospital in Istanbul and Clinical Chemistry Department of Haseki Training and Research Hospital in Istanbul where she was active in teaching residents and fellows in Clinical Biochemistry. The International Hospital has been awarded accreditation by Joint Commission International (JCI) and Health Quality Service (HQS). The laboratory has been awarded ISO 15189 Accreditation. Her PhD is in biochemistry and she remains very active in professional organizations. She is the founder and former president of the Association of Clinical Biochemists (KBUD), Turkey. She organized the First International Symposium on Quality and Accreditation in Laboratory Medicine as the president. She was guest editor of Clinical Biochemistry based on this symposium. She has been president of 3 national symposia on accreditation and standardization of laboratories.

Viroj Wiwanitkit is currently working as a medical professor and Asian Scholar. He is also a visiting University Professor, Hainan Medical University, China and a visiting professor with the Faculty of Medicine at the University of Nis, Serbia. His research interests include tropical medicine and public health, Laboratory medicine, clinical biochemistry, molecular biology, and microbiology.