Bellazzi Riccardo

Dipartimento di Ingegneria Industriale e dell'Informazione

Università degli Studi di Pavia

Via Ferrata 1 27100 Pavia (Italy)

tel: +39-0382-985720

tel: +39-0382-985981

fax: +39-0382-525638

Current Position

Full Professor of Bioengineering, University of Pavia, Italy
Director, Biomedical Informatics Laboratory "Mario Stefanelli", University of Pavia, Italy
Group Leader, Bioinformatics and Data Mining group, Biomedical Informatics Laboratory "Mario Stefanelli", University of Pavia, Italy (http://bioinfo.unipv.it)
Director, Biomedical Informatics Laboratory, IRCCS Fondazione S. Maugeri, Pavia, Italy

Academic Degrees

1993	PhD in Bioengineering
1989	Laurea in Electronic Engineering

Research Interests

Intelligent Data Analysis, Biomedical Data Mining, Bioinformatics, Information Technology infrastructures to support biomedical research, Secondary use of clinical data

Research Grants

Ministry of Education

2007-2010	ITALBIONET: Italian Bioinformatics Network (FIRB), Unit P.I.
2005-2007	Dynamical Models of gene and protein expression data (PRIN), Unit P.I.
2003-2005	Dynamical Models of microarrays gene expression data (PRIN), Unit P.I.

| 2001–2002 | Analysis, Information visualization and visual query in databases for clinical monitoring (PRIN), Unit P.I. |

Cariplo Foundation

| 2008–2011 | Bioinformatics for Tissue engineering, P.I. |
| 2009–2010 | Sviluppo di una diagnostica molecolare per l'insufficienza ovarica primaria: analisi di diverse coorti di pazienti e genotipizzazione con arrays di SNP ad alta densità, Unit P.I. |

Lombardia Region

| 2011–2012 | The Onco-i2b2 project |

Health Ministry

| 2009–2010 | Italian Network of Genetic Isolates (INGI): identification of genetic and environmental risk factors for obesity, Unit P.I. |

Ministry of Foreign Affairs

| 2006–2009 | A.I. Methods in functional genomics, P.I. |

European Commission

2013–2017	Mosaic – UNIPV project leader
2011–2015	Mobiguide – UNIPV WP leader
2009–2014	SUMMIT – SUrrogate markers for Micro- and Macro-vascular hard endpoints for Innovative diabetes Tools – UNIPV project leader
2010–2013	Inheritance – INtegrated HEart Research In TrANslational genetics of dilated Cardiomyopathies in Europe, WP leader, UNIPV project leader
2000–2002	Multi-access services for telematic management of diabetes mellitus, Technical project manager
1996–1999	Telematic management of insulin dependent diabetes mellitus, Co-investigator

Editorial boards

2009–today	Associate Editor of "BMC Bioinformatics"
2011–today	Member of the Editorial Board of "Journal of American Medical Informatics Association"
2007–today	Member of the Editorial Board of "Methods of Information in Medicine"
2006–today	Member of the Editorial Board of "Journal of Diabetes Science and Technology"
2005–2010	Associate Editor of "IEEE Transactions on Information Technology in Biomedicine".

Organization of Scientific Events

2012	Track Chairman of the Conference "AMIA SUMMIT on Translational Bioinformatics", San Francisco, March 2012
2011	Chairman of the Workshop "NETTAB on Clinical Bioinformatics", Pavia, October 2011
2010	Co-Chairman of the Scientific Programme Committee of the World Conference of Medical and Health Informatics (MEDINFO), Cape Town, September 2010
2007	Program Chairman of the Conference "Artificial Intelligence in Medicine", Amsterdam, July 2007
1996–2009	SPC member of several conferences and worskhops, including: AMIA (2012), AMIA (2008), AIME (since 2001), Intelligent Data Analysis in Medicine and Pharmacology workshops (since 1996), Diabetes Technology meetings (since 2002), IDA (1997, 2007, 2009), IEEE CBMS (since 2005), PAIS (since 2005)

International and National Organizations, Awards

2010–2013	Member of the Board of the International Medical Informatics Association – Vice President for Medinfo
2009–today	Fellow of the American College of Medical Informatics
2000–2008	Chairman, Working group of the International Medical Informatics Association on Intelligent Data Analysis and Data Mining
2005–today	Member of the American Medical Informatics Association
2005–today	Member of the Board of Artificial Intelligence in Medicine Society
2007–today	Member of the Italian Bioinformatics Association
1992	Second prize at the AMIA Student's paper competition

Recent Invited talks

2013	MEHAI; Clinical reseach informatics – Dubai
2013	HIKM 2013; – Clinical Bioinformatics and clinical research informatics– Adelaide
2012	APAMI 2012; – Clinical Bioinformatics – Beijing
2011	INFOLAC 2011; – Clinical Data Mining – Guadalajara
2010	International Conference on Case-Based reasoning; – CBR and Bioinformatics – Alessandria
2010	INFORSALUD 2010 – Madrid
2009	Infinitamente – A.I. in Medicine – Sistemi di supporto alle decisioni in medicina – Verona
2008	ICML 2008 – Workshop on Health care applications – Temporal data mining – Helsinki
2008	Brazilian Congress of Health Informatics – Data mining in Health care – San Paulo do Brazil
2008	Diabetes Technology meeting – Data mining for Diabetes management – Washington
2008	10th FISV Congress – Bayesian networks for the integrative analysis of genomic data – Riva del Garda
2007	Medicon 2007 – Telemedicine for Diabetes patients management – Ljubljana

Academic Teaching

Courses

2007–2010	Probabilistic modelling, Master Degree in Biomedical Engineering, University of Pavia, Italy
2003–today	Machine Learning in Biomedicine, Master Degree in Biomedical Engineering, University of Pavia, Italy
2003–2010	Bioinformatics for genomics and proteomics, Master Degree in Biotechnology in Medicine and Pharmaceutics, University of Pavia, Italy
2001–today	Medical Informatics, Bachelor Degree in Biomedical Engineering, University of Pavia, Pavia, Italy
2004–2008	Software tools and programming, Master in "Complexity and its interdisciplinary applications", Institute of Advanced Studies (IUSS), Pavia, Italy
2001–2003	Mathematical Modeling of Biological Systems, Degree in Biomedical Engineering, University of Pavia, University of Pavia, Italy
2001–2002	Medical Informatics part A, Diploma in Biomedical Engineering, University of Pavia, Pavia, Italy
1998–2001	Bioengineering, Diploma in Biomedical Engineering, University of Pavia, Pavia, Italy

Performance as a teacher reported at the web site: https://valmon.ds.unifi.it/sisvaldidat/unipv/index.php –
courses "Informatica Medica" (Ingegneria – Bioingegneria LT) and "Data Mining e Sistemi decisionali in
medicina" (Ingegneria – Bioingegneria LM)

Organization

2009–today	Member, Research Planning Group, University of Pavia
2009–today	Chair, PhD in Bioengineering and Bioinformatics, University of Pavia
2004–2010	Member of the Board of the PhD program in Bioengineering and Bioinformatics
2008–today	Member of the Planning committee of the Bioengineering courses
2004–2008	Member of the Board of the Master in "Complexity and its interdisciplinary applications", Institute of Advanced Studies (IUSS), Pavia, Italy
2001–2002	Member, Committee for the evaluation of teaching activity of the Faculty of Engineering, University of Pavia, Pavia, Italy

Publications (international peer review journals)

Google Scholar H–Index: 32

A1–   R. Bellazzi, S. Quaglini, C. Berzuini and M. Stefanelli, GAMEES: a probabilistic environment for expert systems, Computer Methods and Programs in Biomedicine, 1991; 35:177–191, Elsevier, Amsterdam.

A2–   C. Berzuini, R. Bellazzi, S. Quaglini, D.J. Spiegelhalter, Bayesian Networks for Patient Monitoring, Artificial Intelligence in Medicine, 1992; 4:243–260, Elsevier, Amsterdam.

A3–   S. Quaglini, R. Bellazzi, C. Berzuini, M. Stefanelli and G. Barosi, Hybrid Knowledge–based Systems for Therapy Planning, Artificial Intelligence in Medicine, 1992; 4:207–226, Elsevier, Amsterdam.

A4–   R. Bellazzi, Drug Delivery Optimization through Bayesian Networks: An application to Erythropoietin Therapy in Uremic Anemia, Computers and Biomedical Research, 1993; 26:274–293.

A5–   S.Quaglini, R. Bellazzi, F. Locatelli, M. Stefanelli, C. Salvaneschi, An Influence Diagram for Assessing GVHD Prophylaxis after Bone Marrow Transplantation in Children, Medical Decision Making, 1994; 14:223–235, Philadelphia, Stati Uniti.

A6–   A. De Vincenzi, R.G. Bellazzi, M. Santagostino, A. Gazo, D. Romanini, M. Nai, L. Maretti, G. Ornati, R. Bellazzi, High and low flux Acetate–free Biofiltration: experimental assessment of Calcium Mass Balance and Intact Parathyroid Hormone Behaviour, Nephrology Dialysis Transplantation, 1994; 9:1305–1309, Heidelberg, Germany.

A7–   R. Bellazzi, C. Siviero and R.G. Bellazzi, Mathematical modeling of erythropoietin therapy in uremic anemia. Does it improve cost–effectiveness?, Haematologica, 1994; 79:154–164, Il Pensiero Scientifico Editore.

A8–   R. Bellazzi, S. Quaglini, Reusable Influence Diagrams, Artificial Intelligence in Medicine, 1994; 6:483–500, Elsevier, Amsterdam.

A9–   R. Bellazzi, C. Siviero, M. Stefanelli, G. De Nicolao, Adaptive Controllers for Intelligent Monitoring, Artificial Intelligence in Medicine, 1995; 7:515–540, Elsevier, Amsterdam.

A10–   A. Riva, R.Bellazzi, Learning Temporal Probabilistic Causal Models from Longitudinal Data, Artificial Intelligence in Medicine, 1996; 8:217–234.

A11–   A. Nauti, C. Patrini, C. Reggiani, A. Merighi, R. Bellazzi, G. Rindi, In vivo study of the kinetics of thiamine and its phosphates in the deafferented rat cerebellum, Brain Metabolic Disease, 1997; 12:145–160.

A12–   A. Riva, R. Bellazzi, M. Stefanelli,A Web–based System for the Intelligent Management of Diabetic Patients, MD Computing, 1997; 14:360–364.

A13- P. Magni, R. Bellazzi, DT-Planner: an environment for managing dynamic decision problems Computer Methods and Programs in Biomedicine, 1997; 54:183-200

A14- R. Bellazzi, P. Magni, G. De Nicolao, Dynamic Probabilistic Networks for Modelling and Identifying Dynamic Systems: a MCMC Approach, Intelligent Data Analysis, 1997; 1:245-262.

A15- R. Bellazzi, A. Riva, Learning Bayesian Networks probabilities from longitudinal data, IEEE Trans. System Man Cybernetics, 1998; 28 Part A (5):629-636.

A16- R. Bellazzi, A. Riva, C. Larizza, S. Fiocchi and M. Stefanelli A Distributed System for Diabetic Patients Management Computer Methods and Programs in Biomedicine, 1998; 56:93-107.

A17- R. Bellazzi, L. Ironi, R. Guglielmann, M. Stefanelli, Qualitative models and Fuzzy Systems: an integrated approach for learning from data, Artificial Intelligence in Medicine 1998; 14:5-28.

A18- R. Bellazzi, C. Larizza and A. Riva, Temporal abstractions for interpreting chronic patients monitoring data Intelligent Data Analysis, 1998; 2:97-122.

A19- A. Riva, R. Bellazzi, M. Stefanelli and G. Lanzola, A development environment for knowledge-based medical applications on the World-Wide Web, Artificial Intelligence in Medicine, 1998; 14:279-293.

A20- P. Magni, R. Bellazzi, G. De Nicolao, Bayesian Function learning using MCMC methods, IEEE Transactions Pattern Analysis and Machine Intelligence, 1998; 20:1319-1331.

A21- S. Montani, R. Bellazzi, C. Larizza, A. Riva, G. d'Annunzio, S. Fiocchi, R. Lorini and M. Stefanelli, Protocol-based reasoning in diabetic patient management, International Journal of Medical Informatics, 1999; 53:61-77.

A22- S. Montani, R. Bellazzi, L. Portinale, G. d'Annunzio, S. Fiocchi, M. Stefanelli, Diabetic Patients Management Exploiting Case-Based Reasoning Techniques, Computer Methods and Programs in Biomedicine, 2000; 62:205-218.

A23- R. Bellazzi, R. Guglielmann, L. Ironi, How to improve fuzzy-neural system modeling by means of qualitative simulation, IEEE Transactions on Neural Networks, 2000; 11(1):249-253.

A24- R. Bellazzi, C. Larizza, P. Magni, S. Montani and M. Stefanelli Intelligent Analysis of Clinical Time Series: an application in the Diabetes Mellitus Domain, Artificial Intelligence in Medicine, 2000; 20:37-57.

A25- R. Bellazzi, P. Magni, G. De Nicolao, Bayesian analysis of Blood Glucose time series from Diabetes home monitoring, IEEE Transactions Biomedical Engineering, 2000; 47:971-975.

A26- R. Bellazzi, C. Cobelli and G. Nucci, The subcutaneous route to Insulin-Dependent Diabetes Therapy, IEEE Engineering in Medicine and Biology Magazine, 2001; January/February:56-64.

A27- R. Bellazzi, S. Montani, A. Riva and M. Stefanelli, Web-based telemedicine systems for home-care: technical and methodological issues, Computer Methods and Programs in Biomedicine, 2000; 64:175-187.

A28- S. Montani, R. Bellazzi, L. Portinale and M. Stefanelli, A Multi-Modal Reasoning Methodology for Managing IDDM Patients, International Journal of Medical Informatics, 2000; 58:243-256.

A29- P. Magni, R. Bellazzi, G. Sparacino, C. Cobelli, Population compartmental model of C-peptide kinetics: arriving at individual parameter estimates and their precision by a Bayesian approach, Annals of Biomedical Engineering, 2000; 28:812-823.

A30- G. Paoli, M. Muselli, R. Bellazzi, R. Corvò, D. Liberati, F. Foppiano, Medical & Biological Engineering & Computing, 2000; 38:483-486.

A31- R. Bellazzi, R. Guglielmann, L. Ironi, Learning from biomedical time series through the integration of qualitative models and fuzzy systems, Artificial Intelligence in Medicine, 2001; 21:215-220.

A32- S. Montani, R. Bellazzi, S. Quaglini, G. d'Annunzio, Meta-Analysis of the effect of the use of Computer-based systems on the metabolic control of Insulin-treated Diabetes Mellitus patients, Diabetes Technology and Therapeutics, 2001; 3:347-356.

A33- R. Bellazzi, P. Magni, Structural analysis of the abortion time series reported in the ISTAT summaries. Research in Official Statistics, 2001; 4:41-52.

A34- R. Bellazzi, B. Zupan, Intelligent Data Analysis. Special Issue editorial. Methods of Information in Medicine, 2001; 40:362-364.

A35- P. Magni, R. Bellazzi, A. Nauti, C. Patrini and G. Rindi, Compartmental model identification based on an empirical Bayesian approach: the case of thiamine kinetics in rats, Medical & Biological Engineering & Computing , 2001; 39:700-706.

A36- R. Bellazzi, Commentary on "Although people with diabetes mellitus may prefer blood glucose self-monitoring, evidence does not suggest improved outcomes relative to urine testing", Evidence based Healthcare, 2001; 5:15.

A37- R. Schmidt, S. Montani, R. Bellazzi, L. Portinale, L. Gierl, Cased-based Reasoning for medical knowledge-based systems, International Journal Medical Informatics, 2001; 64:355-367.

A38- R. Bellazzi, R. Guglielmann, L. Ironi, A Hybrid Input-output approach to model Metabolic Systems: An application to intracellular thiamine kinetics, Journal of Biomedical Informatics, 2001; 24:221-248.

A39- S. Montani, R. Bellazzi, Supporting decisions in medical applications: the knowledge management perspective, Diabetes, Technology and Therapeutics, 2002;18:79-90.

A40- P. Magni, R. Bellazzi, G. De Nicolao, I. Poggesi and M. Rocchetti, Nonparametric AUC estimation in population studies with incomplete sampling: a Bayesian approach, Journal of Pharmacokinetics and Pharmacodynamics, 2002, 29:445-471.

A41- G. Pillonetto, G. Sparacino, P. Magni, R. Bellazzi and C. Cobelli, Minimal model SI=0 problem in NIDDM subjects: nonzero Bayesian estimates with credible confidence intervals, American Journal of Physiology - Endocrinology and Metabolism, 2002; 282:E564-E573.

A42- R. Bellazzi, C. Larizza, S. Montani, A. Riva, M. Stefanelli, G. d'Annunzio, R. Lorini, E.J. Gomez, E. Hernando, E. Brugues, J. Cermeno, R. Corcoy, A. de Leiva, C. Cobelli, G. Nucci, S. Del Prato, A. Maran, E. Kilkki, J. Tuominen, A telemedicine support for diabetes management: the T-IDDM project, Computer Methods and Programs in Biomedicine, 2002; 69:147-161.

A43- L. Portinale, S. Montani, R. Bellazzi, A Fuzzy Approach to Case Retrieval through Fuzzy Extension of SQL, International Journal on Engineering Intelligent Systems, 2002; 10:159-171.

A44- S. Montani, P. Magni, R. Bellazzi, C. Larizza, A.V. Roudsari and E.R. Carson, Integrating model-based decision support in a Multi Modal Reasoning System for managing Type 1 Diabetic Patients, Artificial Intelligence in Medicine, 2003; 29:131-151.

A45- R. Bellazzi, Electronic Management of Systems in Diabetes Mellitus: Impact on Patient Outcomes, Disease Management & Health Outcomes, 2003; 11:159-171.

A46- R. Bellazzi, M. Arcelloni, G. Bensa, H. Blankenfeld, E. Brugues, E. Carson, C. Cobelli, D. Cramp, G. d'Annunzio, P. De Cata, A. De Leiva, T. Deutsch, P. Fratino, C. Gazzaruso, A. Garcia, T. Gergely, E. Gomez, F. Harvey, P. Ferrari, E. Hernando, M.K. Boulos, C. Larizza, H. Ludekke, A. Maran, G. Nucci, C. Pennati, S. Ramat, A. Roudsari, M. Rigla, M. Stefanelli, Design, methods, and evaluation directions of a multi-access service for the management of diabetes mellitus patients, Diabetes Technology Therapeutics, 2003; 5:621-629.

A47- P. Magni and R. Bellazzi, Analysing Italian voluntary abortion data using a Bayesian approach to the time series decomposition, Statistics in Medicine, 2004; 23:105-123.

A48- P. Magni, G. Sparacino, R. Bellazzi, G. M. Toffolo, C. Cobelli, Insulin minimal model indexes and secretion: proper handling of uncertainty by a Bayesian approach, Annals of Biomedical Engineering, 2004; 32(7):1027-1037.

A49- R. Bellazzi, M. Arcelloni, P. Ferrari, P. Decata, M. Hernando, A. Garcia, C. Gazzaruso, E. Gomez, C. Larizza, P. Fratino, and M. Stefanelli . Diabetes Patients Management Through Information Technology: Tools for Monitoring and Control of the Patients' Metabolic Behaviour. Diabetes Technology and Therapeutics, 2004; 6(5):567-578.

A50- R. Bellazzi, T. Giorgino, I. Azzini, C. Larizza, S. Quaglini, E. Hernando, New frontiers of telemedicine systems for chronic patients monitoring: Adaptive systems and multi-access services, Measurement + Control, 2004; 37(5):146-150.

A51- R. Bellazzi, L. Larizza, P. Magni and R. Bellazzi. Temporal data mining for the quality assessment of hemodialysis services, Artificial Intelligence in Medicine, 2005; 34:25-39.

A52- F. Ferrazzi, P. Magni, R. Bellazzi, Random Walk models for Bayesian Clustering of Gene expression profiles, Applied Bioinformatica, 2005; 4(4):263-76.

A53- L. Sacchi, R. Bellazzi, C. Larizza, P. Magni, T. Curk, U. Petrovic, B. Zupan, TA-Clustering: cluster analysis of gene expression profiles through Temporal Abstractions, International Journal of Medical Informatics, 2005; 74(7-8):505-17.

A54- P. Magni, G. Sparacino, R. Bellazzi, C. Cobelli. Reduced Sampling Schedule for the Glucose Minimal Model: Importance of Bayesian Estimation, American Journal of Physiology - Endocrinology and Metabolism, 2006; 290(1):E177-84.

A55- S. Montani, L. Portinale, G. Leonardi, R.G. Bellazzi, R. Bellazzi. Case-based retrieval to support the treatment of end stage renal failure patients. Artificial Intelligence Medicine, 2006; 37(1):31-42.

A56- R. Manni, E. Zambrelli, R. Bellazzi, M. Terzaghi. The relationship between focal seizures and sleep: An analysis of the cyclic alternating pattern. Epilepsy Research, 2005; 67(1-2):73-80.

A57- C. Larizza, R. Bellazzi, M. Stefanelli, P. Ferrari, P. De Cata, C. Gazzaruso, P. Fratino, G. d'Annunzio, E. Hernando, E.J. Gomez. The M2DM Project--the experience of two Italian clinical

sites with clinical evaluation of a multi-access service for the management of diabetes mellitus patients. Methods Information Medicine, 2006;45(1):79-84.

A58- B. Zupan, J. H. Holmes, R. Bellazzi. Knowledge-Based Data Analysis and Interpretation. Artificial Intelligence in Medicine, 2006;37(3):163-165.

A59- P. Magni, R. Bellazzi. A stochastic model to assess the variability of blood glucose time series in diabetic patients self-monitoring, IEEE Transactions Biomedical Engineering, 2006; 53(6):977-85.

A60- M. N. Kamel Boulos, F. E. Harvey, A. V. Roudsari, R. Bellazzi, M. E. Hernando Perez, T. Deutsch D. G. Cramp, E. R.Carson, A Proposed Semantic Framework for Diabetes Education Content Management, Customisation and Delivery within the M2DM Project, Computer Methods and Programs in Biomedicine, 2006; 83(3):188-97.

A61- F. Demichelis, P. Magni, P. Piergiorgi, M. A. Rubin, R. Bellazzi, A Hierarchical Naive Bayes Model for handling sample heterogeneity in classification problems: an application to tissue microarrays, BMC Bioinformatics, 2006; 7:514.

A62- S. Comincini, V. Ferrara, A. Arias, A. Malovini, A. Azzalin , L. Ferretti, E. Benericetti, M. Cardarelli, M. Gerosa, M. G. Passarin, S. Turazzi and R. Bellazzi, Diagnostic value of PRND gene expression profiles in astrocytomas: relationship to tumor grades of malignancy, Diagnostic value of PRND gene expression profiles in astrocytomas: Relationship to tumor grades of malignancy. Oncology Reports, 2007; 17(5):989-96.

A63- F. Ferrazzi, P. Sebastiani, M.F. Ramoni, R. Bellazzi, Bayesian approaches to reverse engineer cellular systems: a simulation study on nonlinear Gaussian networks, BMC Bioinformatics, 2007; 8(Suppl 5):S2.

A64- R. Bellazzi, B. Zupan, Towards knowledge-based gene expression data mining, Journal of Biomedical Informatics, 2007; 40(6):787-802.

A65- L. Sacchi, C. Larizza, P. Magni, R. Bellazzi, Precedence Temporal Networks to represent temporal relationships in gene expression data, Journal of Biomedical Informatics, 2007; 40(6):761-74.

A66- L. Sacchi, C. Larizza, C. Combi, R. Bellazzi, Data Mining with Temporal Abstractions: learning rules from time series, Data Mining and Knowledge Discovery, 2007; 15(2):217-247.

A67- S. Szymczak, A. Nuzzo, C. Fuchsberger, D.F. Schwarz, A. Ziegler, R. Bellazzi, B.W. Igl. Genetic association studies for gene expressions: Permutation-based mutual information in a comparison with standard ANOVA and as a novel approach for feature selection. BMC Proceedings, 2007; 1 Suppl 1:S9.

A68- M. Verduijn, L. Sacchi, N. Peek, R. Bellazzi, E. de Jonge, B. de Mol, Temporal abstraction for feature extraction: a comparative case study in prediction from ICU monitoring data. Artificial Intelligence in Medicine, 2007; 41(1):1-12.

A69- F. Ferrazzi, P. Magni, L. Sacchi, A. Nuzzo, U. Petrovic, R. Bellazzi. Inferring gene regulatory networks by integrating static and dynamic data. International Journal of Medical Informatics, 2007;76 Suppl 3:S462-75.

A70- G. Lanzola, D. Capozzi, G. d'Annunzio, P. Ferrari, R. Bellazzi, C. Larizza. Going Mobile with a Multiaccess Service for the Management of Diabetic Patients, Journal of Diabetes Science and Technology, 2007; 1(5):730-737.

A71- R. Bellazzi, B. Zupan, Predictive Data Mining in Clinical Medicine: Current Issues and Guidelines, International Journal of Medical Informatics, International Journal Medical Informatics, 2008; 77(2):81-97.

A72- P. Magni, F. Ferrazzi, L. Sacchi, R. Bellazzi. TimeClust: a clustering tool for gene expression time series, Bioinformatics, 2008; 24(3):430-2.

A73- R. Bellazzi, Telemedicine and Diabetes Management: Current Challenges and Future Research Directions, Journal of Diabetes Science and Technology 2008, 2(1): 98-104.

A74- C. Cornalba, R. G. Bellazzi, and R. Bellazzi, Building a Normative Decision Support System for Clinical and Operational Risk Management in Hemodialysis, IEEE transactions on Information Technology in Biomedicine, 2008 Sep;12(5):678-86.

A75- F. Rizzolio, T. Pramparo, C. Sala, O. Zuffardi, L. De Santis, E. Rabellotti, F. Calzi, F. Fusi, R. Bellazzi and D.Toniolo, Epigenetic analysis of the Critical Region I for Premature Ovarian Failure (POF): demonstration of a highly heterochromatic domain on the long arm of the mammalian X chromosome, J Med Genet. 2009 Sep;46(9):585-92. Epub 2008 Jul 15.

A76- C. Viviani Anselmi, V. Novelli, R. Roncarati, A. Malovini, R. Bellazzi, R. Bronzini, G. Marchese, G. Condorelli, AS. Montenero, A.A. Puca, Association of rs2200733 at 4q25 with atrial flutter / fibrillation diseases in Italian population, Heart 2008, Nov;94(11):1394-6.

A77- V.L. Patel, E.H. Shortliffe, M. Stefanelli, P. Szolovits, M.R. Berthold, R. Bellazzi, A. Abu-Hanna, The coming of age of artificial intelligence in medicine. Artif Intell Med. 2009 May;46(1):5-17. Epub 2008 Sep 13.

A78- Bellazzi R, Abu-Hanna A. Artificial intelligence in medicine AIME'07. Artif Intell Med. 2009 May;46(1):1-3. Epub 2008 Sep 24.

A79- M. Zuccotti, V. Merico, L. Sacchi, M. Bellone, T.C. Brink, R. Bellazzi, M. Stefanelli, C.A. Redi, S. Garagna, J. Adjaye. Maternal Oct-4 is a potential key regulator of the developmental competence of mouse oocytes. BMC Dev Biol. 2008 Oct 6;8:97.

A80- A. Malovini A, Nuzzo A, Ferrazzi F, Puca AA, Bellazzi R., Phenotype forecasting with SNPs data through gene-based Bayesian networks. BMC Bioinformatics. 2009 Feb 5;10 Suppl 2:S7.

A81- CV Anselmi, A Malovini, R Roncarati, V Novelli, F Villa, G Condorelli, R Bellazzi, AA Puca. Association of the FOXO3A locus with extreme longevity in a southern italian centenarian study. Rejuvenation Res. 2009 Apr;12(2):95-104.

A82- M Zuccotti, V. Merico, L. Sacchi, M. Bellone, T.C. Brink, M. Stefanelli, C.A. Redi, R. Bellazzi, J. Adjaye, S. Garagna. Oct-4 regulates the expression of Stella and Foxj2 at the Nanog locus: implications for the developmental competence of mouse oocytes. Hum Reprod. 2009 Sep;24(9):2225-37, May 28.

A83- F. Novara, S. Beri, M.E. Bernardo, R. Bellazzi, A. Malovini, R. Ciccone, A.M. Cometa, F. Locatelli, R. Giorda, O. Zuffardi. Different molecular mechanisms causing 9p21 deletions in acute lymphoblastic leukemia of childhood. Hum Genet. 2009 Oct;126(4):511-20. May 30. [Epub ahead of print]

A84- R. Bellazzi, A. Abu-Hanna, Data Mining Technologies for Blood Glucose and Diabetes Management, Journal of Diabetes Science and Technology, May 2009, Volume 3, Issue 3: Page 603-612.

A85- Nuzzo A, Riva A, Bellazzi R. Phenotypic and genotypic data integration and exploration through a web-service architecture. BMC Bioinformatics. 2009 Oct 15;10 Suppl 12:S5.

A86- Novoyatleva T, Diehl F, van Amerongen MJ, Patra C, Ferrazzi F, Bellazzi R, Engel FB. TWEAK is a positive regulator of cardiomyocyte proliferation. Cardiovasc Res. 2010 Mar 1;85(4):681-90. Epub 2009 Nov 2.

A87- Riva A, Nuzzo A, Stefanelli M, Bellazzi R. An automated reasoning framework for translational research. J Biomed Inform. 2010 Jun;43(3):419-27. Epub 2009 Nov 18.

A88- Zuccotti M, Merico V, Redi CA, Bellazzi R, Adjaye J, Garagna S. Role of Oct-4 during acquisition of developmental competence in mouse oocyte. Reprod Biomed Online. 2009;19 Suppl 3:57-62. Review.

A89- Tomás M, Napolitano C, De Giuli L, Bloise R, Subirana I, Malovini A, Bellazzi R, Arking DE, Marban E, Chakravarti A, Spooner PM, Priori SG. Polymorphisms in the NOS1AP gene modulate QT interval duration and risk of arrhythmias in the long QT syndrome. J Am Coll Cardiol. 2010 Jun 15;55(24):2745-52.

A90- Barbarini N, Simonelli L, Azzalin A, Comincini S, Bellazzi R. Development of a novel bioinformatics tool for in silico validation of protein interactions. J Biomed Biotechnol. 2010:670125. Epub 2010 Jun 7.

A91- Concaro S, Sacchi L, Cerra C, Fratino P, Bellazzi R. Mining health care administrative data with temporal association rules on hybrid events. Methods Inf Med. 2011;50(2):166-79. Epub 2010 Dec 20.

A92- D'Ancona G, Bertuzzi F, Sacchi L, Pirone F, Stringi V, Arcadipane A, Bellazzi R, Pilato M. Iatrogenic hypoglycemia secondary to tight glucose control is an independent determinant for mortality and cardiac morbidity. Eur J Cardiothorac Surg. 2011 Aug;40(2):360-6. Epub 2011 Jan 21.

A93- Segagni D, Ferrazzi F, Larizza C, Tibollo V, Napolitano C, Priori SG, Bellazzi R. R Engine Cell: integrating R into the i2b2 software infrastructure. J Am Med Inform Assoc. 2011 May 1;18(3):314-7. Epub 2011 Jan 24.

A94- Ferrazzi F, Engel FB, Wu E, Moseman AP, Kohane IS, Bellazzi R, Ramoni MF.Inferring cell cycle feedback regulation from gene expression data. J Biomed Inform. 2011 Aug;44(4):565-75. Epub 2011 Feb 16.

A95- Neri T, Merico V, Fiordaliso F, Salio M, Rebuzzini P, Sacchi L, Bellazzi R, Redi CA, Zuccotti M, Garagna S. The differentiation of cardiomyocytes from mouse embryonic stem cells is altered by dioxin. Toxicol Lett. 2011 May 10;202(3):226-36. Epub 2011 Feb 24.

A96- Bellazzi R, Ferrazzi F, Sacchi L, Predictive data mining in clinical medicine: a focus on selected methods and applications, WIREs Data Mining and Knowledge Discovery, Published Online: Feb 11 2011, DOI: 10.1002/widm.23.

A97– Segagni D, Ferrazzi F, Larizza C, Tibollo V, Napolitano C, Priori SG, Bellazzi R. R engine cell: integrating R into the i2b2 software infrastructure. J Am Med Inform Assoc. 2011 May 1;18(3):314–7. Epub 2011 Jan 24.

A98– Malovini A, Illario M, Iaccarino G, Villa F, Ferrario A, Roncarati R, Anselmi CV, Novelli V, Cipolletta E, Leggiero E, Orro A, Rusciano MR, Milanesi L, Maione AS, Condorelli G, Bellazzi R, Puca AA. Association Study on Long-Living Individuals from Southern Italy Identifies rs10491334 in the CAMKIV Gene that Regulates Survival Proteins. Rejuvenation Res. 2011 Jun;14(3):283–91. Epub 2011 May 25.

A99– Raimondi S, Barbarini N, Mangione P, Esposito G, Ricagno S, Bolognesi M, Zorzoli I, Marchese L, Soria C, Bellazzi R, Monti M, Stoppini M, Stefanelli M, Magni P, Bellotti V. The two tryptophans of β2-microglobulin have distinct roles in function and folding and might represent two independent responses to evolutionary pressure. BMC Evol Biol. 2011 Jun 10; 11:159.

A100– Zuccotti M, Merico V, Bellone M, Mulas F, Sacchi L, Rebuzzini P, Prigione A, Redi CA, Bellazzi R, Adjaye J, Garagna S. Gatekeeper of pluripotency: A common Oct4 transcriptional network operates in mouse eggs and embryonic stem cells. BMC Genomics. 2011 Jul 5; 12:345.

A101– Zagar L, Mulas F, Garagna S, Zuccotti M, Bellazzi R, Zupan B. Stage prediction of embryonic stem cell differentiation from genome-wide expression data. Bioinformatics. 2011 Sep 15;27(18):2546–53.

A102– Milani G, Masciullo C, Sala C, Bellazzi R, Buetti I, Pistis G, Traglia M, Toniolo D, Larizza C. Computer-based genealogy reconstruction in founder populations. J Biomed Inform. 2011 Dec;44(6):997–1003.

A103– Bellazzi R, Diomidous M, Sarkar IN, Takabayashi K, Ziegler A, McCray AT. Data analysis and data mining: current issues in biomedical informatics. Methods Inf Med. 2011;50(6):536–44.

A104– Ronzoni F, Bongio M, Conte S, Vercesi L, Cassano M, Tribioli C, Galli D, Bellazzi R, Magenes G, Cusella De Angelis MG, Sampaolesi M. Localization of Magic-F1 Transgene, Involved in Muscular Hypertrophy, during Early Myogenesis. J Biomed Biotechnol. 2011; 2011:492075.

A105– Lanzola G, Capozzi D, Serina N, Magni L, Bellazzi R. Bringing the artificial pancreas home: telemedicine aspects. J Diabetes Sci Technol. 2011 Nov 1; 5(6):1381–6.

A106– Bellazzi R, Sacchi L, Caffi E, de Vincenzi A, Nai M, Manicone F, Larizza C, Bellazzi R. Implementation of an automated system for monitoring adherence to hemodialysis treatment: a report of seven years of experience. Int J Med Inform. 2012 May;81(5):320–31.

A107– Merico V, Zuccotti M, Carpi D, Baev D, Mulas F, Sacchi L, Bellazzi R, Pastorelli R, Redi CA, Moratti R, Garagna S, Balduini A. The genomic and proteomic blueprint of mouse megakaryocytes derived from embryonic stem cells. J Thromb Haemost. 2012 May;10(5):907–915.

A108– Magri F, Capelli V, Rotondi M, Leporati P, La Manna L, Ruggiero R, Malovini A, Bellazzi R, Villani L, Chiovato L. Expression of estrogen and androgen receptors in differentiated thyroid cancer: an additional criterion to assess the patient's risk? Endocr Relat Cancer. 2012 Jun 18;19(4):463–471.

A109– Russu A, Malovini A, Puca AA, Bellazzi R. Stochastic model search with binary outcomes for genome-wide association studies. J Am Med Inform Assoc. 2012 Jun 1;19(e1):e13–e20.

A110– Segagni D, Tibollo V, Dagliati A, Zambelli A, Priori SG, Bellazzi R. An ICT infrastructure to integrate clinical and molecular data in oncology research. BMC Bioinformatics. 2012 Mar 28;13 Suppl 4:S5.

A111– Mulas F, Zagar L, Zupan B, Bellazzi R. Supporting regenerative medicine by integrative dimensionality reduction. Methods Inf Med. 2012;51(4):341–7.

A112– Sohni A, Mulas F, Ferrazzi F, Luttun A, Bellazzi R, Huylebroeck D, Ekker SC, Verfaillie CM. TGFβ1-Induced Baf60c Regulates both Smooth Muscle Cell Commitment and Quiescence. PLoS One. 2012;7(10):e47629. doi: 10.1371/journal.pone.0047629.

A113– Bellazzi R, Masseroli M, Murphy S, Shabo A, Romano P. Clinical Bioinformatics challenges and opportunities. BMC Bioinformatics. 2012;13 Suppl 14:S1.

A114– Malovini A, Barbarini N, Bellazzi R, de Michelis F. Hierarchical Naive Bayes for genetic association studies. BMC Bioinformatics. 2012;13 Suppl 14:S6.

A115– 5: Scolari F, Gomulski LM, Ribeiro JM, Siciliano P, Meraldi A, Falchetto M, Bonomi A, Manni M, Gabrieli P, Malovini A, Bellazzi R, Aksoy S, Gasperi G, Malacrida AR. Transcriptional profiles

of mating-responsive genes from testes and male accessory glands of the Mediterranean fruit fly, Ceratitis capitata. PLoS One. 2012;7(10):e46812.

A116- Narula N, Favalli V, Tarantino P, Grasso M, Pilotto A, Bellazzi R, Serio A, Gambarin FI, Charron P, Meder B, Pinto Y, Elliott PM, Mogensen J, Bolognesi M, Bollati M, Arbustini E. Quantitative expression of the mutated lamin a/c gene in patients with cardiolaminopathy. J Am Coll Cardiol. 2012 Nov 6;60(19):1916-20.

A117- Geissbuhler A, Safran C, Buchan I, Bellazzi R, Labkoff S, Eilenberg K, Leese A, Richardson C, Mantas J, Murray P, De Moor G. Trustworthy reuse of health data: A transnational perspective. Int J Med Inform. 2013 Jan;82(1):1-9.

A118- Zuccotti M, Merico V, Belli M, Mulas F, Sacchi L, Zupan B, Redi CA, Prigione A, Adjaye J, Bellazzi R, Garagna S. OCT4 and the acquisition of oocyte developmental competence during folliculogenesis. Int J Dev Biol. 2012;56(10-12):853-8.

A119- Mulas F, Sacchi L, Zagar L, Garagna S, Zuccotti M, Zupan B, Bellazzi R. Knowledge-based bioinformatics for the study of mammalian oocytes. Int J Dev Biol. 2012;56(10-12):859-66.

A120- Dalle Carbonare S, Folli F, Patrini E, Giudici P, Bellazzi R. A Probabilistic Method for Computing Quantitative Risk Indexes from Medical Injuries Compensation Claims. Methods Inf Med. 2013 Apr 24;52(4).