Enzo Grossi

Curriculum Vitae (Updated at January 2018)

PERSONAL INFORMATION

Born	Milano, Italy 21.6.1951
Social status	Married with three children
Home	Brusuglio 38 - 20161 Milano

EDUCATION AND TRAINING

1966-1970	High School, Milano
1966-1971	
1970-1976	School of Medicine, Milano University
1976-1980	Diploma in Gastroenterology, Milano University

PROFESSIONAL PROFILE

Medical doctor, scientist and researcher with long lasting experience in Clinical and Pharmaceutical Medicine, Applied Mathematics and Computational Medicine.

The experience has been gained in Hospitals, Universities and Pharmaceutical Company settings starting from 1975.

From 2012 to 2015 prof. Grossi has acted as Scientific Advisor at Bracco Foundation in Milano.

From 2012 to 2015 prof. Grossi has teached at faculty of Arts Tourism and Markets of IULM University in Milano a new discipline: "Culture and Health". This course has been active in 2016-2017 at Social Sciences Faculty of Bologna Alma Mater University with the title: Quality of Life and Health Promotion

From 2014 to 2015 prof. Grossi has acted as Scientific Advisor for EXPO 2015 Italian Pavillon and as member of Scientific Committee of EXPO 2015, Milano, organizing nine International scientific meetings.

In the last seventeen years E. Grossi has worked intensively in the field of complex systems mathematics applied to medical problems as Associate Researcher within Semeion Research Centre in Rome and as founding partner of Center for Computational and Mathematical Biology, Colorado-Denver University.

A widespread network of collaboration with elite medical researchers worldwide has been created as result of this activity with the aim to emphasize the potential role of artificial neural networks, evolutionary algorithms and other machine learning systems in predictive and personalized medicine.

From 2012 is the Scientific Director at "Villa Santa Maria" in Tavernerio (Como), an Institute which hosts more than 200 disabled children affected by developmental diseases (autism in particular).

From 2016 acts as Scientific Consultant at Global Research & Development, Global Business Unit Imaging of Bracco Imaging SpA, and as Vice-president of Villa Santa Maria Foundation.(see the web site http://publicationslist.org/enzo.grossi51)

SUMMARY OF SCIENTIFIC ACTIVITY

H index = 40

Author of more than 350 publications (full papers, congress proceedings, patents) indexed on Google Scholar (http://scholar.google.it/citations?user=U1wFwHwAAAAJ&hl=it&authuser=2) and 165 full papers indexed on PubMed, listed below in Journal Articles section.

Total number of citations in Google Scholar at October 2017: All: 5522; H index = 40.0; i10-index= 147; From 2012: 3049; H index= 28; i10-index= 94
(https://scholar.google.it/citations?user=U1wFwHwAAAAJ&hl=it).

Author of about 400 contributions to national or international congresses under the form of abstracts, oral presentations of posters

Editor of 23 books or special issues of Scientific Journals. see in the section Books below

Author of 53 chapters in books. See most important ones in the section Book Chapters below

Researchgate: author of 410 research items among which 312 articles; ResearchGate score: 45.32; Total Citations:4281; Followers:330 (https://www.researchgate.net/profile/Enzo_Grossi)

Organiser of over 30 Scientific Symposia, 34 International Congresses and one International Course.

Invited Speaker on more than 100 conferences inherent to clinical pharmacology and artificial intelligence in medicine at national and international congresses and University settings.

Editor of national and international congress proceedings.

Member of a variety of Scientific Societies and Scientific Boards.

Author as inventor or co-inventor of 6 patents.

Invited referee of 49 International Journals in biomedical and bioinfornatics field

Main scientific areas in which dr. Grossi has played a substantial role in connection with University and Scientific societies:

• Gastrointestinal Pathophysiology (Dyspeptic syndrome, GERD, H. Pylori, diverticular disease, IBD, IBS, among the others)
• Central Nervous system (Alzheimer Disease, epilepsia, depression)
• Respiratory Diseases (Asthma, Chronic bronchitis, Pneumonia)
• Cardiology (heart failure, IHD)
• Endocrinology (obesity, thyroid diseases)
• Oncology and palliative care
• Ginecology (Cancer screening and treatment)
• Diagnostic Imaging

Recent specific research interests

• Culture, health and Happiness
• Microbiota in health and disease
• Nutraceuticals
• Autism
• Artificial adaptive systems
• Fuzzy Logic
• Nutrition and health
• Complex chronic diseases
• Data Mining
• Space mining
• Virtual clinical trials
• Quality of life
• Social determinant of health
• Artificial intelligence applied to diagnostic imaging

SCIENTIFIC AFFILIATIONS

Active Member of the following scientific societies:

• 1990 Drug Information Association
• 1991 European Respiratory Society (ERS)
• 1995 Società Italiana Scienze Farmaceutiche (SISF)
• 1998 Italian Interdisciplinary Network of Alzheimer Disease
• 1998 Società Italiana Attività Regolatorie
• 2000 Semeion Research Centre for Artificial Intelligence in medicine

Recent institutional memberships and appointments:

• Research and Development Director at Centro Diagnostico Italiano 2001-2010
• Editorial Board MEDIC Journal from 1995
• Review Committee of The World Scientific and Engineering Academy and Society from 2006
• Editorial Board International Journal of Intelligent Computing in Medical Sciences and Image Processing (IC-MED)
• Technical Committee on medical informatics SMC society, USA from 2006
• Editorial Board of Quality & Quantity, International Journal from 2008
• Honorary editorial board of Clinical and Experimental Gastroenterology from 2007
• Board of Directors; Centre for Computational and mathematical Biology, Denver Colorado University (http://ccmb.ucdenver.edu/) from 2009
• Health Committee for Expo 2015, Milan Commerce Chamber 2009

- Executive Committee of Bracco Foundation from 2012
- Editorial Board of World Journal of Gastrointestinal Pathophysiology from 2010
- Adjunct professor at IULM University, Milano, Italy, for "Culture and Health" course from 2011
- Scientific Director at Villa Santa Maria Institute, Tavernerio (Co), Italy from 2011
- Brain and Malnutrition Chronic Disease Association: Experts Board from 2011
- Editorial board Open Access Journal of Science and Technology from 2012
- Editorial Board of Journal of Alzheimer Disease from 2014
- Editorial Board of Journal of Happiness & Wellbeing from 2013
- Editorial Board of International Journal of Microbiology & Advanced Immunology from 2013
- Scientific Committee of Center for Studies on City and Territory; Bologna University from 2013
- Scientific Advisor of Italian Pavillon EXPO 2015 from February 2014 to October 2015
- Adjunct professor for "Quality of life and Health Promotion" at Alma mater University Bologna 2015-2016
- Scientific Committe of EXPO Milano 2015 from April 2014 to May 2016
- Scientific Committe of Carlo Erba Foundation from June 2014
- Scientific Committe of Nutrition and Pregnancy Outcomes around the world Congress (9 June 2015)
- Scientific Committe of The" Manifesto delle Criticità nutrizionali 2015-2018" (event in Italian Pavillon at August 8th 2015)
- Member from April 2015 of Gentica (Ch) Advisory Board
- Advisory Board Pharmanutrition and Functional Foods Journal 2016
- Scientific Committee Master on Autism 2017-2018 Gestalt Foundation
- Scientific Committee "The Cultural and Creative Cities Monitor" of European Commission 2016 - 2017 https://ec.europa.eu/jrc/sites/jrcsh/files/20161011-annual-conference-c3monitor_en.pdf.
- Vice-President of Villa Santa Maria Foundation (2016)

Activity as referee for the following Journals during last five years:

- BMC Medical Informatics and Decision Making
- Annals of Human Genetics
- Evidence Based Complementary and Alternative Medicine.
- Substance Use and Misuse
- International Journal of Intelligent Computing in Medical Sciences and Image Processing
- Archives of Oral Biology
- Health and quality of life outcomes
- Journal of Experimental & Clinical Cancer Research
- Clinica Chimica Acta
- PlosOne
- Journal of the International Neuropsychological Society
- Obesity reviews
- European Journal Gastroenterology & Hepatology
- American Journal Gastroenterology
- Journal of Happiness Studies
- Journal of Alzheimer Disease
- Behavioural Neurology
- 3-Biothec
- Acta Psychiatrica Scandinavica
- Journal Neural Trasmission
- BMC Complementary and Alternative Medicine Technical Advance
- Computer Methods and Programs in Medicine
- MDPI - Open Access Publishing
- Social Indicators Research
- Molecular Autism
- Journal of Happiness and wellbeing
- Molecular Biology Reports
- Plos Genetics
- Health Policy

- Physica A
- Dementia and Geriatric Cognitive Disorders
- Quality and Quantity
- Frontiers in Psychology
- American Journal of Operations Research
- Translational Psychiatry
- Electronic Journal of Applied Statistical Analysis
- International Journal Infectious Diseases
- International Journal of Biomedical Imaging
- Public Health
- Digestive & Liver Diseases
- Current Gerontology and Geratric research
- Pharmaceutical medicine
- Computational medicine
- Computer in biology and medicine
- Journal Neurology Neurosurgery
- Scientific Reports - Nature
- International Journal of Psychology
- British journal of Dermatology
- Artificial Intelligence In Medicine

INNOVATIONS AND SCIENTIFIC ACHIEVEMENTS:

• Originator and organizer of the first randomized study on the usefulness of the sympathetic nervous block with guanethidine in reflex sympathetic algodystrophy (1983)
• Originator and organizer of the first randomized controlled trial versus placebo on diclofenac in ureteral and biliary colic (1984- 85).
• Inventor of an innovative system based on a subjective assessment of pain through a faded red color scale (1983)
• Originator and organizer of the first randomized clinical trial on carbamazepine in mania (1986)
• Discovery of anticalciuric activity of NSAIDs through inhibition of renal prostaglandins (1986) (1993)
• Founder and organizer of the largest clinical study on the use of speculoscopy in detection of uterine cervical lesions (1998)
• Founder and organizer of the first clinical study on family clustering of infection by Helicobacter pylori (1999)
• Originator of the first study on the use of neural networks in the prediction of response to anti-Alzheimer's (2002)
• Originator and organizer of the first study on the effect of aesthetic experience on stress hormone and subjective wellbeing: THE VICOFORTE EXPERIMENT (2016)
• Organizer of the first Yakult Course on Methodology of clinical research (2016)
• Originator and Organizer of the first paper showing the potential of artificial neural networks in allowing the diagnosis of autism through the analysis of one minute of unprocessed EEG, without any other information (2017).

After the publication of the first study, Enzo Grossi promoted and published many innovative studies on neural networks applications in medicine(for details see list of Journals articles):

- Predicting response to warfarin
- Dyspepsia and Helicobacter response
- Cardiovascular events
- Alzheimer's disease
- MIld Cognitive impairment
- Gastro Esophageal Reflux Disease
- Barrett's esophagus
- Atrophic gastritis
- Venous thrombosis
- Amyotrophic lateral sclerosis

- Multiple sclerosis
- Delay of uterine growth
- Bleeding upper digestive tract
- Myocardial infarction
- Down Syndrome
- Osteoporosis
- Colo-rectal cancer
- Acne
- Autism
- Autonomous cortisol secretion
- Acute coronary syndromes
- Autism diagnosis through EEGMain Books

BOOKS
2014

Enzo Grossi, Gaetana Mariani, Marina Norsi Eds (2014) La salute psicomotoria: Manuale di rilevazione delle competenze avanzate e delle criticità nei diversi aspetti della crescita del bambino dai 0 ai 52 mesi ARACNE Editrice;

2013

Enzo Grossi, Annamaria Ravagnan, Ginevra Are Cappiello, Elena Baldassari, Chiara Bocchi, Alberto Bonardi, Alfonso Casalini, Elettra Chiereghin, Angelo Compare, Chloè Dall'Olio, Antonella Delle Fave, Cristina Lonardi, Mauro Niero, Giorgio Piga, Cristina Riso, PierLuigi Sacco, Raffaella Sartori, Chiara Tampieri, Giorgio Tavano Blessi, Luca Ticini, Lara Villa, Cristina Zarbo (2013) CULTURA E SALUTE   Edited by:Enzo Grossi & Annamaria Ravagnan. Springer isbn:ISBN 978-88-470-2780-0

2012
Angelo Compare, Enzo Grossi (2012) STRESS E DISTURBI DA SOMATIZZAZIONE Evidence Based Practice in psicologia clinica   Edited by:Springer. Springer.com isbn:978-88-470-2076-4

2011
E Grossi (2011) Tracing the drainage divide: the future challenge for predictive medicine   Edited by:E Grossi. Nova Science Publishers, Inc isbn:978-1-61209-232-4-2011

2009
Massimo Buscema, Enzo Grossi (2009) Artificial Adaptive Systems in Medicine: New Theories and Models for New Applications   Edited by:Bentham e-Books. isbn:eISBN: 978-1-60805-042-

Abstract: This Ebook covers the emerging and most important theories underlying artificial intelligence applications in a variety of medical problems. It is written for physicians, researchers, engineers, statisticians and advanced students who wish to increase their familiarity with different topics of modern mathematics related to predictive medicine. Both theoretical and applied aspects are presented in this book. Many illustrative mathematical explanations and worked-out examples are given. This book features contributions by nine noted experts from leading medical centers worldwide, which should prove to be of considerable interest to the readers.

1998
Rodolfo Paoletti, Helmut Sies, Joachim Bug, Enzo Grossi, Andrea Poli (1998) Vitamin C. The State of the art in disease prevention sixty years after the Nobel Prize.   Edited by:Springer. isbn:ISBN-13: 9788847000148
Abstract: Sixty years after the discovery of Vitamin C by the Nobel laureate Albert Szent-GyArgy, the volume presents a discussion of the issues most discussed around the main water-soluble antioxidant vitamin. Contributed by internationally accredited experts, it was possible to combine

the results obtained in basic scientific research, epidemiology and clinical medicine, and describe the main properties moleculari, biological and physiological vitamin C. The book aims to contribute to a better understanding of the role of ascorbic acid in some cardiovascular, respiratory and tumoriali and analyze the potential of the compound in the prevention and treatment of these conditions

1992
Casale, Grossi, Procacci, GIyin Editors (1992) Reflex Sympathetic Algodystrophies: Out-patient Treatments   Edited by:Edizioni Libreria Cortina. Torino, Italy: isbn:ISBN 88-8239-059-4

Journals Articles Indexed on PubMed; complete list

1: Bianchi Porro G, Dolcini R, **Grossi E**, Petrillo M, Prada A. Cimetidine in treatment of pancreatic insufficiency. Lancet. 1977 Oct 22;2(8043):878-9. PubMed PMID: 72228.

2: Barbara L, Belsasso E, Bianchi Porro G, Blasi A, Caenazzo E, Chierichetti SM,
Di Febo G, Di Mario F, Farini R, Giorgi-Conciato M, **Grossi E**, Mangiameli A,
Miglioli M, Naccarato R, Petrillo M. Pirenzepine in duodenal ulcer. A multicentre double-blind controlled clinical trial, First of two parts. Scand J Gastroenterol Suppl. 1979;57:11-5. PubMed PMID: 396651.

3: **Grossi E**, Vertemati F, Casiraghi MA, Petrillo M, Bianchi Porro G. Action of caerulein on gastric acid secretion. A comparative study between the rectal and I.M. routes. Farmaco Prat. 1980 Oct;35(10):504-9. PubMed PMID: 7449935.

4: Graziani G, Aroldi A, Fogazzi GB, Surian M, Colussi G, Petrillo M, **Grossi E**, Brancaccio D, Ponticelli C. [Gastric acid secretion in patients with absorptive hypercalciuria and recurrent calcic nephrolithiasis]. Minerva Nefrol. 1981 Jul-Sep;28(3):289-92. Italian. PubMed PMID: 7329604.

5: Agricola R, Mazzarino M, Urani R, Gallo V, **Grossi E**. Treatment of acute alcohol withdrawal syndrome with carbamazepine: a double-blind comparison with tiapride.
J Int Med Res. 1982;10(3):160-5. PubMed PMID: 7047258.

6: Beccari G, Del Noce A, **Grossi E**. [Hypocalcemia during cimetidine and
carbenoxolone treatment]. Minerva Med. 1982 Jun 30;73(27):1903. Italian. PubMed
PMID: 7088404.

7: Drago F, Motta A, **Grossi E**. Intravenous maprotiline in severe and resistant primary depression: a double-blind comparison with clomipramine. J Int Med Res.
1983;11(2):78-84. PubMed PMID: 6343154.

8: Vignoni A, Fierro A, Moreschini G, Cau M, Agostino A, Daniele E, Foti G, **Grossi E**. Diclofenac sodium in ureteral colic: a double-blind comparison trial
with placebo. J Int Med Res. 1983;11(5):303-7. PubMed PMID: 6357890.

9: Bonelli S, Conoscente F, Movilia PG, Restelli L, Francucci B, **Grossi E**.
Regional intravenous guanethidine vs. stellate ganglion block in reflex sympathetic dystrophies: a randomized trial. Pain. 1983 Jul;16(3):297-307. PubMed
PMID: 6350994.

10: Baroni L, **Grossi E**, Trombetta N. [Multicenter study on the use of injectable diclofenac in pain states: analysis of the clinical data on 1873 patients]. Clin Ter. 1983 Sep 30;106(6):447-56. Italian. PubMed PMID: 6641106.

11: **Grossi E**, Borghi C, Cerchiari EL, Della Puppa T, Francucci B. Analogue chromatic continuous scale (ACCS): a new method for pain assessment. Clin Exp Rheumatol. 1983 Oct-Dec;1(4):337-40. PubMed PMID: 6681150.

12: Corli O, Roma G, Bacchini M, Battagliarin G, Di Piazza D, Brambilla C, **Grossi E**. Double-blind placebo-controlled trial of baclofen, alone and in combination, in patients undergoing voluntary abortion. Clin Ther. 1984;6(6):800-7. PubMed
PMID: 6391666.

13: Vecchini L, **Grossi E**. Ionization with diclofenac sodium in rheumatic disorders: a double-blind placebo-controlled trial. J Int Med Res.
1984;12(6):346-50. PubMed PMID: 6394405.

14: Broggini M, Corbetta E, **Grossi E**, Borghi C. Diclofenac sodium in biliary colic: a double blind trial. Br Med J (Clin Res Ed). 1984 Apr 7;288(6423):1042.
PubMed PMID: 6423186; PubMed Central PMCID: PMC1442655.

15: Bossi L, Galante G, Conoscente F, Avvisati O, **Grossi E**. [Treatment of postoperative pain. Double-blind comparison of diclofenac and pentazocine].
Minerva Anestesiol. 1984 Jul-Aug;50(7-8):373-8. Italian. PubMed PMID: 6395037.

16: **Grossi E**, Monza G. Role of initial pain intensity in placebo-induced analgesia in ureteral colic. Pain. 1985 May;22(1):97-9. PubMed PMID: 4011287.

17: Broggini M, Corbetta E, **Grossi E**, Borghi C. [Sodium diclofenac in ureteral colic. Comparative double-blind study with placebo]. Minerva Urol Nefrol. 1985
Oct-Dec;37(4):493-7. Italian. PubMed PMID: 3834631.

18: Bianchi Porro G, Lazzaroni M, **Grossi E**. Effect of maprotiline on pentagastrin-stimulated acid secretion in man. Scand J Gastroenterol. 1985 Oct;20(8):912-6. PubMed PMID: 4081627.

19: Lenzi A, Lazzerini F, **Grossi E**, Massimetti G, Placidi GF. Use of carbamazepine in acute psychosis: a controlled study. J Int Med Res. 1986;14(2):78-84. PubMed PMID: 3084316.

20: Bettini R, **Grossi E**, Rapazzini P, Giardina G. Diclofenac sodium versus acetylsalicylic acid: a randomized study in febrile patients. J Int Med Res. 1986;14(2):95-100. PubMed PMID: 3516755.

21: Pesenti A, Riboni A, Basilico E, **Grossi E**. Antipyretic therapy in ICU patients: evaluation of low dose diclofenac sodium. Intensive Care Med. 1986;12(5):370-3. PubMed PMID: 3771916.

22: **Grossi E**, Borghi C. [Randomized multicenter study on the use of diclofenac in the treatment of primary dysmenorrhea. An analysis of the data relative to 878 patients]. Minerva Ginecol. 1986 Jul-Aug;38(7-8):637-45. Italian. PubMed PMID: 3528924.

23: **Grossi E**, Monza GC, Pollavini S, Bona L. NSAID ionisation in the management of soft-tissue rheumatism: role played by the drug, electrical stimulation and suggestion. Clin Exp Rheumatol. 1986 Jul-Sep;4(3):265-7. PubMed PMID: 3533340.

24: Corli O, **Grossi E**, Roma G, Battagliarin G. Correlation between subjective labour pain and uterine contractions: a clinical study. Pain. 1986 Jul;26(1):53-60. PubMed PMID: 3737231.

25: **Grossi E**, Garagiola U, Marconi A, Broggini M. [New etiopathologic and therapeutic perspectives in ureteral colic. Evaluation of clinical experience with diclofenac sodium and indomethacin]. Recenti Prog Med. 1986 Sep;77(9):429-33. Italian. PubMed PMID: 3541086.

26: Bettini R, Marrapodi E, Rapazzini P, Ambruzzi AM, Ferrario A, **Grossi E**.
[Multiple myeloma: test of hypocalcemia induced by calcitonin]. Recenti Prog Med. 1987 Jul-Aug;78(7-8):348-53. Italian. PubMed PMID: 3423406.

27: Dolcetti A, Osella D, De Filippis G, Carnuccio C, **Grossi E**. Comparison of intravenously administered doxofylline and placebo for the treatment of severe
acute airways obstruction. J Int Med Res. 1988 Jul-Aug;16(4):264-9. PubMed PMID:
3169372.

28: Filipponi P, Mannarelli C, Pacifici R, **Grossi E**, Moretti I, Tini S, Carloni C, Blass A, Morucci P, Hruska KA, et al. Evidence for a prostaglandin-mediated bone resorptive mechanism in subjects with fasting hypercalciuria. Calcif Tissue Int. 1988 Aug;43(2):61-6. PubMed PMID: 3142668.

29: **Grossi E**, Biffignandi P, Franzone JS. [Doxofylline: pharmacologic profile and a review of clinical studies]. Riv Eur Sci Med Farmacol. 1988 Nov;10(5):415-30. Review. Italian. PubMed PMID: 3079129.

30: Melillo G, Balzano G, Jodice F, De Felice A, Campisi V, Capone M, Di Filippo A, Foddai G, Franzone JS, **Grossi E**, et al. Treatment of reversible chronic airways obstruction with doxofylline compared with slow-release theophylline: a double-blind, randomized, multicentre trial. Int J Clin Pharmacol Res. 1989;9(6):397-405. PubMed PMID: 2699466.

31: Cirillo R, **Grossi E**, Franzone JS. Doxofylline, an adenosine-nonblocking xanthine, does not induce cardiostimulant effects. Res Commun Chem Pathol Pharmacol. 1989 Jul;65(1):21-34. PubMed PMID: 2781149.

32: Movilia P, Restelli L, Miriano F, Vaiani G, **Grossi E**. Analgesic activity of nabumetone in postoperative pain. Drugs. 1990;40 Suppl 5:71-4. PubMed PMID: 2081499.

33: Vaiani G, **Grossi E**. Meta-analysis of Italian clinical trials of nabumetone.
Drugs. 1990;40 Suppl 5:48-9. PubMed PMID: 2150505.

34: Lazzaroni M, **Grossi E**, Bianchi Porro G. The effect of intravenous doxofylline or aminophylline on gastric secretion in duodenal ulcer patients. Aliment Pharmacol Ther. 1990 Dec;4(6):643-9. PubMed PMID: 2129651.

35: De Caterina R, Giannessi D, Lazzerini G, Filipponi P, Mannarelli C, Vaiani G, **Grossi E**. Effect of nabumetone on metabolism of renal arachidonate in humans. J Rheumatol Suppl. 1992 Nov;36:80. PubMed PMID: 1474540.

36: Giannessi D, Lazzerini G, Filipponi P, Mannarelli C, Vaiani G, **Grossi E**, De Caterina R. Effects of nabumetone, a new non-steroidal anti-inflammatory drug, on urinary prostaglandin excretion in man. Pharmacol Res. 1993 Oct-Nov;28(3):229-41. PubMed PMID: 8108313.

37: Garagiola U, Buzzetti M, Cardella E, Confalonieri F, Giani E, Polini V, Ferrante P, Mancuso R, Montanari M, **Grossi E**, et al. Immunological patterns
during regular intensive training in athletes: quantification and evaluation of a preventive pharmacological approach. J Int Med Res. 1995 Mar-Apr;23(2):85-95.
PubMed PMID: 7601298.

38: Sacco C, Braghiroli A, **Grossi E**, Donner CF. The effects of doxofylline versus theophylline on sleep architecture in COPD patients. Monaldi Arch Chest Dis. 1995 Apr;50(2):98-103. PubMed PMID: 7613555.

39: Bona M, Santini F, Rivolta G, **Grossi E**, Grilli R. Cost effectiveness of screening for subclinical hypothyroidism in the elderly. A decision-analytical model. Pharmacoeconomics. 1998 Aug;14(2):209-16. PubMed PMID: 10186461.

40: Gismondo MR, Drago L, Fassina MC, Vaghi I, Abbiati R, **Grossi E**. Immunostimulating effect of oral glutamine. Dig Dis Sci. 1998 Aug;43(8):1752-4. PubMed PMID: 9724164.

41: **Grossi E**. Economic evaluations in medicine: still more questions than answers? Ital J Gastroenterol Hepatol. 1998 Aug;30(4):347-50. PubMed PMID: 9789124.

42: Loiudice L, Abbiati R, Boselli F, Cecchini G, Costa S, **Grossi E**, Piccoli R, Villani C. Improvement of Pap smear sensitivity using a visual adjunctive procedure: a co-operative Italian study on speculoscopy (GISPE). Eur J Cancer Prev. 1998 Aug;7(4):295-304. PubMed PMID: 9806118.

43: Fioravanti M, Ferrario E, Massaia M, Cappa G, Rivolta G, **Grossi E**, Buckley
AE. Low folate levels in the cognitive decline of elderly patients and the efficacy of folate as a treatment for improving memory deficits. Arch Gerontol Geriatr. 1998 Jan-Feb;26(1):1-13. PubMed PMID: 18653121.

44: Cerutti R, Rivolta G, Cavalieri L, Di Giulio C, **Grossi E**, Vago T, Baldi G, Righini V, Marzo A. Bioequivalence of levothyroxine tablets administered to a target population in steady state. Pharmacol Res. 1999 Mar;39(3):193-201. PubMed PMID: 10094844.

45: Macchia M, Barontini S, Bertini S, Di Bussolo V, Fogli S, Giovannetti E, **Grossi E**, Minutolo F, Danesi R. Design, synthesis, and characterization of the antitumor activity of novel ceramide analogues. J Med Chem. 2001 Nov
8;44(23):3994-4000. PubMed PMID: 11689086.

46: Mecocci P, **Grossi E**, Buscema M, Intraligi M, Savarè R, Rinaldi P, Cherubini A, Senin U. Use of artificial networks in clinical trials: a pilot study to predict responsiveness to donepezil in Alzheimer's disease. J Am Geriatr Soc. 2002 Nov;50(11):1857-60. PubMed PMID: 12410907.

47: Andriulli A, **Grossi E**, Buscema M, Festa V, Intraligi NM, Dominici P, Cerutti R, Perri F; NUD LOOK Study Group. Contribution of artificial neural networks to the classification and treatment of patients with uninvestigated dyspepsia. Dig Liver Dis. 2003 Apr;35(4):222-31. PubMed PMID: 12801032.

48: Melchionda N, Marchesini G, Apolone G, Cuzzolaro M, Mannucci E, **Grossi E**;for
QUOVADIS Study Group. The QUOVADIS Study: features of obese Italian patients
seeking treatment at specialist centers. Diabetes Nutr Metab. 2003
Apr;16(2):115-24. PubMed PMID: 12846451.

49: Morelli L, Zonenschain D, Callegari ML, **Grossi E**, Maisano F, Fusillo M. Assessment of a new synbiotic preparation in healthy volunteers: survival, persistence of probiotic strains and its effect on the indigenous flora. Nutr J. 2003 Oct 9;2:11. PubMed PMID: 14613507; PubMed Central PMCID: PMC270007.

50: Rodriguez G, De Leo C, Girtler N, Vitali P, **Grossi E**, Nobili F. Psychological and social aspects in management of Alzheimer's patients: an inquiry among caregivers. Neurol Sci. 2003 Dec;24(5):329-35. PubMed PMID: 14716528.

51: Marchesini G, Melchionda N, Apolone G, Cuzzolaro M, Mannucci E, Corica F, **Grossi E**; QUOVADIS Study Group. The metabolic syndrome in treatment-seeking obese persons. Metabolism. 2004 Apr;53(4):435-40. PubMed PMID: 15045688.

52: Marchesini G, Pontiroli A, Salvioli G, Novi RF, Vitacolonna E, Taboga C, Ciccarone AM, **Grossi E**; QUOVADIS Study Group. Snoring, hypertension and Type 2
diabetes in obesity. Protection by physical activity. J Endocrinol Invest. 2004
Feb;27(2):150-7. PubMed PMID: 15129810.

53: **Grossi E**. Greek kleroteria: the first randomisation technique? Lancet. 2005 Jan 15-21;365(9455):216. PubMed PMID: 15652603.

54: Baldassarre D, **Grossi E**, Buscema M, Intraligi M, Amato M, Tremoli E, Pustina L, Castelnuovo S, Sanvito S, Gerosa L, Sirtori CR. Recognition of patients with cardiovascular disease by artificial neural networks. Ann Med. 2004;36(8):630-40. PubMed PMID: 15768835.

55: Buscema M, **Grossi E**, Snowdon D, Antuono P, Intraligi M, Maurelli G, Savarè R. Artificial neural networks and artificial organisms can predict Alzheimer pathology in individual patients only on the basis of cognitive and functional status. Neuroinformatics. 2004;2(4):399-416. PubMed PMID: 15800371; PubMed Central PMCID: PMC1360290.

56: Pace F, Buscema M, Dominici P, Intraligi M, Baldi F, Cestari R, Passaretti S,Bianchi Porro G, **Grossi E**. Artificial neural networks are able to recognize gastro-oesophageal reflux disease patients solely on the basis of clinical data. Eur J Gastroenterol Hepatol. 2005 Jun;17(6):605-10. PubMed PMID: 15879721.

57: **Grossi E**, Colombo R, Cavuto S, Franzini C. The REALAB project: a new method for the formulation of reference intervals based on current data. Clin Chem. 2005 Jul;51(7):1232-40. Epub 2005 May 26. PubMed PMID: 15919879.

58: Buscema M, **Grossi E**, Intraligi M, Garbagna N, Andriulli A, Breda M. An optimized experimental protocol based on neuro-evolutionary algorithms application to the classification of dyspeptic patients and to the prediction of the effectiveness of their treatment. Artif Intell Med. 2005 Jul;34(3):279-305. PubMed PMID: 16023564

59: Di Luca M, **Grossi E**, Borroni B, Zimmermann M, Marcello E, Colciaghi F, Gardoni F, Intraligi M, Padovani A, Buscema M. Artificial neural networks allow the use of simultaneous measurements of Alzheimer disease markers for early detection of the disease. J Transl Med. 2005 Jul 27;3:30. PubMed PMID: 16048651; PubMed Central PMCID: PMC1198261.

60: **Grossi E**, Massini G, Buscema M, Savarè R, Maurelli G. Two different Alzheimer diseases in men and women: clues from advanced neural networks and artificial intelligence. Gend Med. 2005 Jun;2(2):106-17. PubMed PMID: 16115605.

61: **Grossi E**. Medical concepts related to individual risk are better explained with "plausibility" rather than "probability". BMC Cardiovasc Disord. 2005 Sep 27;5:31. PubMed PMID: 16188041; PubMed Central PMCID: PMC1262702.

62: Penco S, **Grossi E**, Cheng S, Intraligi M, Maurelli G, Patrosso MC, Marocchi A, Buscema M. Assessment of the role of genetic polymorphism in venous thrombosis through artificial neural networks. Ann Hum Genet. 2005 Nov;69(Pt 6):693-706. PubMed PMID: 16266408.

63 Lahner E, **Grossi E**, Intraligi M, Buscema M, Corleto VD, Delle Fave G, Annibale B. Possible contribution of artificial neural networks and linear discriminant analysis in recognition of patients with suspected atrophic body gastritis. World J Gastroenterol. 2005 Oct 7;11(37):5867-73. PubMed PMID: 16270400.

64: Dal Forno G, Chiovenda P, Bressi F, Ferreri F, **Grossi E**, Brandt J, Rossini PM, Pasqualetti P. Use of an Italian version of the telephone interview for cognitive status in Alzheimer's disease. Int J Geriatr Psychiatry. 2006 Feb;21(2):126-33. PubMed PMID: 16416467.

65: **Grossi E**, Dalle Grave R, Mannucci E, Molinari E, Compare A, Cuzzolaro M, Marchesini G. Complexity of attrition in the treatment of obesity: clues from a structured telephone interview. Int J Obes (Lond). 2006 Jul;30(7):1132-7. Epub 2006 Jan 24. PubMed PMID: 16432536.

66: De Vreese LP, Pradelli S, Massini G, Buscema M, Savarè R, **Grossi E**. The traveling salesman problem as a new screening test in early Alzheimer's disease: an exploratory study. Visual problem-solving in AD. Aging Clin Exp Res. 2005 Dec;17(6):458-64. PubMed PMID: 16485863.

67: **Grossi E**. How artificial intelligence tools can be used to assess individual patient risk in cardiovascular disease: problems with the current methods. BMC Cardiovasc Disord. 2006 May 3;6:20. PubMed PMID: 16672045; PubMed Central PMCID: PMC1479368.

68: Andriulli A, Annese V, Terruzzi V, **Grossi E**, Minoli G. "Appropriateness" or "prioritization" for GI endoscopic procedures? Gastrointest Endosc. 2006
Jun;63(7):1034-6. PubMed PMID: 16733121.

69: **Grossi E**, Colombo R, Cavuto S, Franzini C. Age and gender relationships of serum alanine aminotransferase values in healthy subjects. Am J Gastroenterol. 2006 Jul;101(7):1675-6. PubMed PMID: 16863581.

70: Morelli L, Garbagna N, Rizzello F, Zonenschain D, **Grossi E**. In vivo association to human colon of Lactobacillus paracasei B21060: map from biopsies.
Dig Liver Dis. 2006 Dec;38(12):894-8. Epub 2006 Sep 20. PubMed PMID: 16987720.

71: **Grossi E**, Groth N, Mosconi P, Cerutti R, Pace F, Compare A, Apolone G.
Development and validation of the short version of the Psychological General Well-Being Index (PGWB-S). Health Qual Life Outcomes. 2006 Nov 14;4:88. PubMed
PMID: 17105655; PubMed Central PMCID: PMC1647268.

72: Peluso I, Fina D, Caruso R, Stolfi C, Caprioli F, Fantini MC, Caspani G, **Grossi E**, Di Iorio L, Paone FM, Pallone F, Monteleone G. Lactobacillus paracasei subsp. paracasei B21060 suppresses human T-cell proliferation. Infect Immun. 2007 Apr;75(4):1730-7. Epub 2007 Jan 22. PubMed PMID: 17242060; PubMed Central PMCID: PMC1865705.

73: **Grossi E**, Mancini A, Buscema M. International experience on the use of artificial neural networks in gastroenterology. Dig Liver Dis. 2007 Mar;39(3):278-85. Epub 2007 Feb 1. Review. PubMed PMID: 17275425.

74: **Grossi E**. Non-linear associations between laryngo-pharyngeal symptoms of gastro-oesophageal reflux disease: clues from artificial intelligence analysis.
Acta Otorhinolaryngol Ital. 2006 Oct;26(5):293-8. PubMed PMID: 17345935; PubMed Central PMCID: PMC2639976.

75: Buscema M, Rossini P, Babiloni C, **Grossi E**. The IFAST model, a novel parallel nonlinear EEG analysis technique, distinguishes mild cognitive impairment and Alzheimer's disease patients with high degree of accuracy. Artif Intell Med. 2007 Jun;40(2):127-41. Epub 2007 Apr 26. PubMed PMID: 17466496.

76: **Grossi E**. Technology transfer from the science of medicine to the real world: the potential role played by artificial adaptive systems. Subst Use Misuse. 2007;42(2-3):267-304. PubMed PMID: 17558931.

77: **Grossi E**, Buscema MP, Snowdon D, Antuono P. Neuropathological findings processed by artificial neural networks (ANNs) can perfectly distinguish Alzheimer's patients from controls in the Nun Study. BMC Neurol. 2007 Jun 21;7:15. PubMed PMID: 17584929; PubMed Central PMCID: PMC1913539.

78: Franceschi M, Caffarra P, De Vreese L, Pelati O, Pradelli S, Savarè R,
Cerutti R, **Grossi E**; ToL Research Group. Visuospatial planning and problem
solving in Alzheimer's disease patients: a study with the Tower of London Test.

Dement Geriatr Cogn Disord. 2007;24(6):424-8. Epub 2007 Oct 16. PubMed PMID: 17940336.

79: **Grossi E**, Buscema M. Introduction to artificial neural networks. Eur J Gastroenterol Hepatol. 2007 Dec;19(12):1046-54. Review. PubMed PMID: 17998827.

80: Andriulli A, **Grossi E**, Buscema M, Pilotto A, Festa V, Perri F. Artificial neural networks can classify uninvestigated patients with dyspepsia. Eur J Gastroenterol Hepatol. 2007 Dec;19(12):1055-8. Review. PubMed PMID: 17998828.

81: De Vreese LP, Caffarra P, Savarè R, Cerutti R, Franceschi M, **Grossi E**; Multicentre Study Group. Functional disability in early Alzheimer's disease - a validation study of the Italian version of the disability assessment for dementia scale. Dement Geriatr Cogn Disord. 2008;25(2):186-94. Epub 2008 Jan 15. PubMed PMID: 18196940.

82: Lahner E, Intraligi M, Buscema M, Centanni M, Vannella L, **Grossi E**, Annibale B. Artificial neural networks in the recognition of the presence of thyroid disease in patients with atrophic body gastritis. World J Gastroenterol. 2008 Jan 28;14(4):563-8. PubMed PMID: 18203288; PubMed Central PMCID: PMC2681147.

83: Buscema M, Capriotti M, Bergami F, Babiloni C, Rossini P, **Grossi E**. The implicit function as squashing time model: a novel parallel nonlinear EEG analysis technique distinguishing mild cognitive impairment and Alzheimer's disease subjects with high degree of accuracy. Comput Intell Neurosci. 2007:35021. PubMed PMID: 18309366; PubMed Central PMCID: PMC2246031.

84: Helgason CM, **Grossi E**, Pandey D, Valika A, Cursio J, Brace LD. Platelet aggregation and recruitment with aspirin-clopidogrel therapy. Cerebrovasc Dis. 2008;25(5):392-400. Epub 2008 Mar 17. PubMed PMID: 18349532.

85: Licastro F, Porcellini E, Chiappelli M, Forti P, Buscema M, Ravaglia G, **Grossi E**. Multivariable network associated with cognitive decline and dementia. Neurobiol Aging. 2010 Feb;31(2):257-69. Epub . PubMed PMID: 18485535.

86: Rossini PM, Buscema M, Capriotti M, **Grossi E**, Rodriguez G, Del Percio C, Babiloni C. Is it possible to automatically distinguish resting EEG data of normal elderly vs. mild cognitive impairment subjects with high degree of accuracy? Clin Neurophysiol. 2008 Jul;119(7):1534-45. Epub 2008 May 15. PubMed PMID: 18485814.

87: Penco S, Buscema M, Patrosso MC, Marocchi A, **Grossi E**. New application of intelligent agents in sporadic amyotrophic lateral sclerosis identifies unexpected specific genetic background. BMC Bioinformatics. 2008 May 30;9:254. PubMed PMID: 18513389; PubMed Central PMCID: PMC2443147.

88: Street ME, **Grossi E**, Volta C, Faleschini E, Bernasconi S. Placental determinants of fetal growth: identification of key factors in the insulin-like growth factor and cytokine systems using artificial neural networks. BMC Pediatr. 2008 Jun 17;8:24. PubMed PMID: 18559101; PubMed Central PMCID: PMC2438355.

89: **Grossi E**. The Framingham study and treatment guidelines for stroke prevention. Curr Treat Options Cardiovasc Med. 2008 Jun;10(3):207-15. PubMed PMID: 18582409.

90: **Grossi E**. The single individual in medicine: how to escape from the probability theory trap. Cases J. 2008 Jul 24;1(1):58. PubMed PMID: 18652690; PubMed Central PMCID: PMC2503964.

92: Andriulli A, Neri M, Loguercio C, Terreni N, Merla A, Cardarella MP, FedericoA, Chilovi F, Milandri GL, De Bona M, Cavenati S, Gullini S, Abbiati R, Garbagna N, Cerutti R, **Grossi E**. Clinical

trial on the efficacy of a new symbioticformulation, Flortec, in patients with irritable bowel syndrome: a multicenter,randomized study. J Clin Gastroenterol. 2008 Sep;42 Suppl 3 Pt 2:S218-23. PubMed PMID: 18685503.

93: Buscema M, **Grossi E**, Snowdon D, Antuono P. Auto-Contractive Maps: an artificial adaptive system for data mining. An application to Alzheimer disease. Curr Alzheimer Res. 2008 Oct;5(5):481-98. PubMed PMID: 18855590.

94: Buscema M, **Grossi E**. The semantic connectivity map: an adapting self-organising knowledge discovery method in data bases. Experience in gastro-oesophageal reflux disease. Int J Data Min Bioinform. 2008;2(4):362-404. PubMed PMID: 19216342.

95: Perrotti P, Dominici P, **Grossi E**, Antropoli C, Giannotti G, Cusato M, RegazziM, Cerutti R. Pharmacokinetics of anorectal nifedipine and lidocaine (lignocaine) ointment following haemorrhoidectomy: an open-label, single-dose, phase IV clinical study. Clin Drug Investig. 2009;29(4):243-56.. PubMed PMID: 19301938.

96: Momary KM, Shapiro NL, Brace LD, Shord SS, **Grossi E**, Viana MA, Helgason CM, Nutescu EA, Cavallari LH. Influence of cyclooxygenase-1 genotype on ex vivo aspirin response in patients at risk for stroke. Cerebrovasc Dis. 2009;27(6):585-93. Epub 2009 Apr 24. PubMed PMID: 19390185.

97: Perri R, Carlesimo GA, Serra L, Caltagirone C; Early Diagnosis Group of the Italian Interdisciplinary Network on Alzheimer's Disease. When the amnestic mild cognitive impairment disappears: characterisation of the memory profile. Cogn Behav Neurol. 2009 Jun;22(2):109-16. PubMed PMID: 19506427.

98: Vannella L, Gianni D, Lahner E, Amato A, **Grossi E**, Delle Fave G, Annibale B. Pre-endoscopic screening for Helicobacter pylori and celiac disease in younganemic women. World J Gastroenterol. 2009 Jun 14;15(22):2748-53. PubMed PMID:19522025; PubMed Central PMCID: PMC2695890.

99: Federico A, Tuccillo C, **Grossi E**, Abbiati R, Garbagna N, Romano M, Tiso A, Del Vecchio Blanco C , Loguercio C. The effect of a new symbiotic formulation on plasmalevels and peripheral blood mononuclear cell expression of some pro-inflammatory cytokines in patients with ulcerative colitis: a pilot study. Eur Rev MedPharmacol Sci. 2009 Jul-Aug;13(4):285-93. PubMed PMID: 19694343.

100: Buscema M, **Grossi E**, Capriotti M, Babiloni C, Rossini P. The I.F.A.S.T. model allows the prediction of conversion to Alzheimer disease in patients with mild cognitive impairment with high degree of accuracy. Curr Alzheimer Res. 2010 Mar;7(2):173-87. PubMed PMID: 19860726.

101: Innocenti M, Ramoni S, Doria C, Antropoli C, Garbagna N, **Grossi E**, Veraldi S. Treatment of periocular wrinkles with topical nifedipine. J Dermatolog Treat. 2010 Sep;21(5):282-5. PubMed PMID: 19929263.

102: Baldassarre D, Nyyssönen K, Rauramaa R, de Faire U, Hamsten A, Smit AJ,Mannarino E, Humphries SE, Giral P, **Grossi E**, Veglia F, Paoletti R, Tremoli E;IMPROVE study group. Cross-sectional analysis of baseline data to identify themajor determinants of carotid intima-media thickness in a European population:the IMPROVE study. Eur Heart J. 2010 Mar;31(5):614-22. Epub 2009 Dec 1. PubMed PMID: 19952003.

103: Pace F, Pallotta S, Manes G, de Leone A, Zentilin P, Russo L, Savarino V, Neri M, **Grossi E**, Cuomo R. Outcome of nonerosive gastro-esophageal reflux disease patients with pathological acid exposure. World J Gastroenterol. 2009 Dec 7;15(45):5700-5. PubMed PMID: 19960567; PubMed Central PMCID: PMC2789223.

104: Buri L, Hassan C, Bersani G, Anti M, Bianco MA, Cipolletta L, Di Giulio E, Di Matteo G, Familiari L, Ficano L, Loriga P, Morini S, Pietropaolo V, Zambelli A, **Grossi E**, Intraligi M, Buscema M; SIED Appropriateness Working Group. Appropriateness guidelines and predictive rules to select patients for upper endoscopy: a nationwide multicenter study. Am J Gastroenterol. 2010 Jun;105(6):1327-37. Epub 2009 Dec 22. PubMed PMID: 20029414.

105: Marmo R, Koch M, Cipolletta L, Capurso L, **Grossi E**, Cestari R, Bianco MA, Pandolfo N, Dezi A, Casetti T, Lorenzini I, Germani U, Imperiali G, Stroppa I, Barberani F, Boschetto S, Gigliozzi A, Gatto G, Peri V, Buzzi A, Della Casa D, DiCicco M, Proietti M, Aragona G, Giangregorio F, Allegretta L, Tronci S, Michetti P, Romagnoli P, Piubello W, Ferri B, Fornari F, Del Piano M, Pagliarulo M, DiMitri R, Trallori G, Bagnoli S, Frosini G, Macchiarelli R, Sorrentini I, PietriniL, De Stefano S, Ceglia T, Chiozzini G, Salvagnini M, Di Muzio D, Rotondano G; Italian registry on upper gastrointestinal bleeding (Progetto Nazionale Emorragie Digestive--PNED 2). Predicting mortality in non-variceal upper gastrointestinal bleeders: validation of the Italian PNED Score and Prospective Comparison with the Rockall Score. Am J Gastroenterol. 2010 Jun;105(6):1284-91. Epub 2010 Jan 5. PubMed PMID: 20051943.

106: Perrotti P, Dominici P, **Grossi E**, Cerutti R, Antropoli C. Topical nifedipine with lidocaine ointment versus active control for pain after hemorrhoidectomy: results of a multicentre, prospective, randomized, double-blind study. Can J Surg. 2010 Feb;53(1):17-24. PubMed PMID: 20100408; PubMed Central PMCID: PMC2810010.

107: Tabaton M, Odetti P, Cammarata S, Borghi R, Monacelli F, Caltagirone C, Bossù P, Buscema M, **Grossi E**. Artificial neural networks identify the predictive values of risk factors on the conversion of amnestic mild cognitive impairment. J. Alzheimers Dis. 2010;19(3):1035-40. PubMed PMID: 20157257.

108: Buri L, Bersani G, Hassan C, Anti M, Bianco MA, Cipolletta L, Di Giulio E, Di Matteo G, Familiari L, Ficano L, Loriga P, Morini S, Pietropaolo V, Zambelli A, **Grossi E**, Intraligi M, Tessari F, Buscema M; SIED Appropriateness Working Group. How to predict a high rate of inappropriateness for upper endoscopy in an endoscopic centre? Dig Liver Dis. 2010 Sep;42(9):624-8. Epub 2010 Mar 21. PubMed PMID: 20308024.

109: Licastro F, Chiappelli M, Porcellini E, Campo G, Buscema M, **Grossi E**, Garoia F, Ferrari R. Gene-gene and gene - clinical factors interaction in acute myocardial infarction: a new detailed risk chart. Curr Pharm Des. 2010;16(7):783-8. PubMed PMID: 20388088.

110: de Leone A, Tonini M, Dominici P, **Grossi E**, Pace F; on behalf of the EMERGE Study Group. The proton pump inhibitor test for gastroesophageal reflux disease: Optimal cut-off value and duration. Dig Liver Dis. 2010 May 6. [Epub ahead of print] PubMed PMID: 20452300.

111: Pace F, Riegler G, de Leone A, Pace M, Cestari R, Dominici P, **Grossi E**; EMERGE Study Group. Is it possible to clinically differentiate erosive from nonerosive reflux disease patients? A study using an artificial neural networks-assisted algorithm. Eur J Gastroenterol Hepatol. 2010 Oct;22(10):1163-8. PubMed PMID: 20526203.

112: **Grossi E**, Buresta R, Abbiati R, Cerutti R; Pro-DIA study group. Clinical trial on the efficacy of a new symbiotic formulation, Flortec, in patients with acute diarrhea: a multicenter, randomized study in primary care. J ClinGastroenterol. 2010 Sep;44 Suppl 1:S35-41. PubMed PMID: 20616746.

113: Coppedè F, **Grossi E,** Migheli F, Migliore L. Polymorphisms in folate-metabolizing genes, chromosome damage, and risk of Down syndrome in Italian women: identification of key factors using artificial neural networks.

BMC Med Genomics. 2010 Sep 24; 3:42. PubMed PMID: 20868477; PubMed Central PMCID: PMC2949778.

114: Licastro F, Porcellini E, Forti P, Buscema M, Carbone I, Ravaglia G, **Grossi E.**Multi factorial interactions in the pathogenesis pathway of Alzheimer's disease: a new risk charts for prevention of dementia. Immun Ageing. 2010 Dec 16;7 Suppl
1:S4. PubMed PMID: 21172063.

115: **Grossi E.** Artificial Adaptive Systems and predictive medicine: a revolutionaryparadigm shift. Immun. Ageing. 2010 Dec 16;7 Suppl 1:S3. PubMed PMID: 21172062.

116. **Grossi E**, Sacco PL, Tavano Blessi G, Cerutti R The impact of culture on individual subjective well-being of the Italian Population: an exploratory study. Applied Research in Quality of Life; published online 2 December 2010

117: Rotondano G, Cipolletta L, **Grossi E**, Koch M, Intraligi M, Buscema M, Marmo R; Italian Registry on Upper Gastrointestinal Bleeding (Progetto Nazionale EmorragieDigestive). Artificial neural networks accurately predict mortality in patientswith nonvariceal upper GI bleeding. Gastrointest Endosc. 2011 Feb;73(2):218-26,226.e1-2. PubMed PMID: 21295635.

118: Pace F, Riegler G, de Leone A, Dominici P, **Grossi E**; EMERGE Study Group.Gastroesophageal reflux disease management according to contemporary international guidelines: a translational study. World J Gastroenterol. 2011 Mar 7;17(9):1160-6. PubMed PMID: 21448420; PubMed Central PMCID: PMC3063908.

119: Buri L, Zullo A, Hassan C, Bersani G, Anti M, Bianco MA, Cipolletta L, GiulioED, Matteo GD, Familiari L, Ficano L, Loriga P, Morini S, Pietropaolo V, ZambelliA, **Grossi E,** Tessari F, Intraligi M, Buscema M; and the SIED Appropriateness Working Group. Upper GI endoscopy in elderly patients: predictive factors of
relevant endoscopic findings. Intern Emerg Med. 2011 May 3. [Epub ahead of print PubMed PMID: 21538157.

120: Franceschi M, Caffarra P, Savarè R, Cerutti R, **Grossi E**; Tol Research Group. Tower of London test: a comparison between conventional statistic approach and modelling based on artificial neural network in differentiating fronto-temporal dementia from Alzheimer's disease. Behav Neurol. 2011;24(2):149-58. PubMed PMID: 21606576.

121: Eller-Vainicher C, Zhukouskaya VV, Tolkachev YV, Koritko SS, Cairoli E, **Grossi**E, Beck-Peccoz P, Chiodini I, Shepelkevich AP. Low bone mineral density and itspredictors in type 1 diabetic patients evaluated by the classic statistics and artificial neural network analysis. Diabetes Care. 2011 Oct;34(10):2186-91. Epub 2011 Aug 18. PubMed PMID: 21852680; PubMed Central PMCID: PMC3177712.

122: De Ceglie A, Filiberti R, Blanchi S, Fontana V, Fisher DA, **Grossi E,** LacchinT, De Matthaeis M, Ignomirelli O, Cappiello R, Casa DD, Foti M, Laterza F, RosatiR, Annese V, Iaquinto G, Conio M. History of cancer in first degree relatives of Barrett's esophagus patients: a case-control study. Clin Res Hepatol
Gastroenterol. 2011 Dec;35(12):831-8. Epub 2011 Sep 15. PubMed PMID: 21924696.

123: Marmo R, Del Piano M, Rotondano G, Koch M, Bianco MA, Zambelli A, Di Matteo G,**Grossi E**, Cipolletta L; PNED 1 Investigators; PNED 2 Investigators, Prometeo Investigators. Mortality from nonulcer bleeding is similar to that of ulcer bleeding in high-risk patients with nonvariceal hemorrhage: a prospective database study in Italy. Gastrointest Endosc. 2012 Feb;75(2):263-72, 272.e1. Epub
2011 Oct 13. PubMed PMID: 22000792.

124: Eller-Vainicher C, Chiodini I, Santi I, Massarotti M, Pietrogrande L, Cairoli E, Beck-Peccoz P, Longhi M, Galmarini V, Gandolini G, Bevilacqua M, **Grossi E**.Recognition of morphometric vertebral fractures by artificial neural networks:analysis from GISMO Lombardia Database. PLoS One. 2011;6(11):e27277. Epub 2011Nov 4. PubMed PMID: 22076144; PubMed Central PMCID: PMC3208634.

125: Rondanelli M, Opizzi A, Faliva M, Mozzoni M, Antoniello N, Cazzola R, SavarèR, Cerutti R, **Grossi E**, Cestaro B. Effects of a diet integration with an oily emulsion of DHA-phospholipids containing melatonin and tryptophan in elderly patients suffering from mild cognitive impairment. Nutr Neurosci. 2012
Mar;15(2):46-54. Epub 2011 Dec 20. PubMed PMID: 22334085.

126: Buscema M, Penco S, **Grossi E**. A Novel Mathematical Approach to Define the Genes/SNPs Conferring Risk or Protection in Sporadic Amyotrophic Lateral Sclerosis Based on Auto Contractive Map Neural Networks and Graph Theory. Neurol Res Int. 2012;2012:478560. Epub 2012 Aug 9. PubMed PMID: 22934166; PubMed Central PMCID: PMC3425858

127: Tarlarini C, Penco S, Conio M, **Grossi E**. Role of XPC, XPD, XRCC1, GSTP genetic polymorphisms and Barrett's esophagus in a cohort of Italian subjects. A neural network analysis. Clin Exp Gastroenterol. 2012;5:159-66. Epub 2012 Aug 8. PubMed PMID: 22893750; PubMed Central PMCID: PMC3418826

128.Dalle Grave R, Calugi S, Marchesini G, Beck-Peccoz P, Bosello O, Compare A,Cuzzolaro M, **Grossi E**, Mannucci E, Molinari E, Tomasi F, Melchionda N; for theQUOVADIS II Study Group. Personality features of obese women in relation to binge eating and night eating. Psychiatry Res. 2012 Sep 24. pii: S0165-1781(12)00475-1.doi: 10.1016/j.psychres.2012.09.001. [Epub ahead of print] PubMed PMID: 23017653.

129: Baldassarre D, Hamsten A, Veglia F, de Faire U, Humphries SE, Smit AJ, GiralP, Kurl S, Rauramaa R, Mannarino E, **Grossi E**, Paoletti R, Tremoli E; IMPROVE Study Group. Measurements of Carotid Intima-Media Thickness and of Interadventitia Common Carotid Diameter Improve Prediction of Cardiovascular
Events: Results of the IMPROVE (Carotid Intima Media Thickness [IMT] andIMT-Progression as Predictors of Vascular Events in a High Risk European Population) Study. J Am Coll Cardiol. 2012 Sep 8. [Epub ahead of print] PubMed PMID: 22999719.

130: Dalle Grave R, Calugi S, Marchesini G, Beck-Peccoz P, Bosello O, Compare A, Cuzzolaro M, **Grossi E**, Mannucci E, Molinari E, Tomasi F, Melchionda N; QUOVADIS II Study Group. Personality features of obese women in relation to binge eating and night eating. Psychiatry Res. 2013 May 15;207(1-2):86-91. doi: 10.1016/j.psychres.2012.09.001. Epub 2012 Sep 25. PubMed PMID: 23017653.

131: Lahner E, Esposito G, Zullo A, Hassan C, Cannaviello C, Paolo MC, Pallotta L, Garbagna N, **Grossi E,** Annibale B. High-fibre diet and Lactobacillus paracasei B21060 in symptomatic uncomplicated diverticular disease. World J Gastroenterol. 2012 Nov 7;18(41):5918-24. doi: 10.3748/wjg.v18.i41.5918. PubMed PMID: 23139608; PubMed Central PMCID: PMC3491599.

132: Gironi M, Saresella M, Rovaris M, Vaghi M, Nemni R, Clerici M, **Grossi E**. A novel data mining system points out hidden relationships between immunological markers in multiple sclerosis. Immun Ageing. 2013 Jan 10;10(1):1. doi: 10.1186/1742-4933-10-1. PubMed PMID: 23305498; PubMed Central PMCID: PMC3575395.

133: Parati G, Omboni S, Compare A, **Grossi E**, Callus E, Venco A, Destro M, Villa G, Palatini P, Rosei EA, Scalvini S, Taddei S, Manfellotto D, Favale S, De Matteis C, Guglielmi M; TELEBPMET Study Group, Lonati L, Della Rosa F, Tosazzi E, Grandi AM, Maresca AM, Mongiardi C, Mare M,

Ricci AR, Cagnoni F, Georgatos J, Besostri V, Ferrari V, Omodeo O, Dorigatti F, Bonso E, Guarnieri C, Muiesan L, Paini A, Stassaldi D, Cinelli A, Bernocchi P, Rocchi S, Magagna A, Ghiadoni L, Del Frate I, Boresi F, Guidi A, Re MA, Pellicciotti L, Florio A, Morani G, Di Lillo S, Ambrosio A, Casciello A, Quaglia M, Forleo C, Ardito MA, Gerunda S, Panunzio M. Blood pressure control and treatment adherence in hypertensive patients with metabolic syndrome: protocol of a randomized controlled study based on home blood pressure telemonitoring vs. conventional management and assessment of psychological determinants of adherence (TELEBPMET Study). Trials. 2013 Jan 23;14:22. doi: 10.1186/1745-6215-14-22. PubMed PMID: 23343138; PubMed Central PMCID: PMC3576326.

134: Caffarra P, Gardini S, Dieci F, Copelli S, Maset L, Concari L, Farina E, **Grossi E.** The qualitative scoring MMSE pentagon test (QSPT): a new method for differentiating dementia with Lewy Body from Alzheimer's disease. Behav Neurol. 2013;27(2):213-20. doi: 10.3233/BEN-120319. PubMed PMID: 23396218.

135: Compare A, Bigi R, Orrego PS, Proietti R, **Grossi E**, Steptoe A. Type D personality is associated with the development of stress cardiomyopathy following emotional triggers. Ann Behav Med. 2013 Jun;45(3):299-307. doi: 10.1007/s12160-013-9474-x. PubMed PMID: 23494256.

136: Baldassarre D, Veglia F, Hamsten A, Humphries SE, Rauramaa R, de Faire U, Smit AJ, Giral P, Kurl S, Mannarino E, **Grossi E,** Paoletti R, Tremoli E; IMPROVE Study Group. Progression of carotid intima-media thickness as predictor of vascular events: results from the IMPROVE study. Arterioscler Thromb Vasc Biol. 2013 Sep;33(9):2273-9. doi: 10.1161/ATVBAHA.113.301844. Epub 2013 Jul 3. PubMed PMID: 23825364.

137: Street ME, Buscema M, Smerieri A, Montanini L, **Grossi E.** Artificial Neural Networks, and Evolutionary Algorithms as a systems biology approach to a data-base on fetal growth restriction. Prog Biophys Mol Biol. 2013 Dec;113(3):433-8. doi: 10.1016/j.pbiomolbio.2013.06.003. Epub 2013 Jul 1. Review. PubMed PMID: 23827462.

138: Coppedè F, Grossi E, Buscema M, Migliore L. Application of artificial neural networks to investigate one-carbon metabolism in Alzheimer's disease and healthy matched individuals. PLoS One. 2013 Aug 12;8(8):e74012. doi: 10.1371/journal.pone.0074012. eCollection 2013. PubMed PMID: 23951366; PubMed Central PMCID: PMC3741132.

139: Gallucci M, Zanardo A, Bendini M, Di Paola F, Boldrini P, **Grossi E**. Serum folate, homocysteine, brain atrophy, and auto-CM system: The Treviso Dementia (TREDEM) study. J Alzheimers Dis. 2014;38(3):581-7. doi: 10.3233/JAD-130956. PubMed PMID: 24028866.

140: Compare A, Calugi S, Marchesini G, Shonin E, **Grossi E**, Molinari E, Dalle Grave R. Emotionally focused group therapy and dietary counseling in binge eating disorder. Effect on eating disorder psychopathology and quality of life. Appetite. 2013 Dec;71:361-8. doi: 10.1016/j.appet.2013.09.007. Epub 2013 Sep 21. PubMed PMID: 24060270.

141: Compare A, **Grossi E**, Buscema M, Zarbo C, Mao X, Faletra F, Pasotti E, Moccetti T, Mommersteeg PM, Auricchio A. Combining personality traits with traditional risk factors for coronary stenosis: an artificial neural networks solution in patients with computed tomography detected coronary artery disease. Cardiovasc Psychiatry Neurol. 2013;2013:814967. doi:

10.1155/2013/814967. Epub 2013 Oct 3. PubMed PMID: 24198964; PubMed Central PMCID: PMC3808723.

142: Compare A, **Grossi E**, Bigi R, Proietti R, Shonin E, Orrego PS, Poole L. Stress-induced cardiomyopathy and psychological wellbeing 1 year after an acute event. J Clin Psychol Med Settings. 2014 Mar;21(1):81-91. doi: 10.1007/s10880-013-9380-1. PubMed PMID: 24217954.

143: Marmo R, Koch M, Cipolletta L, Bianco MA, **Grossi E**, Rotondano G; PNED 1 and PNED 2 Investigators. Predicting mortality in patients with in-hospital nonvariceal upper GI bleeding: a prospective, multicenter database study.
Gastrointest Endosc. 2014 May;79(5):741-749.e1. doi: 10.1016/j.gie.2013.10.009.
Epub 2013 Nov 9. PubMed PMID: 24219820.

144: Mitolo M, Salmon DP, Gardini S, Galasko D, **Grossi E**, Caffarra P. The new Qualitative Scoring MMSE Pentagon Test (QSPT) as a valid screening tool between autopsy-confirmed dementia with Lewy bodies and Alzheimer's disease. J Alzheimers Dis. 2014;39(4):823-32. doi: 10.3233/JAD-131403. PubMed PMID: 24284368; PubMed Central PMCID: PMC4346244.

145: **Grossi E,** Podda GM, Pugliano M, Gabba S, Verri A, Carpani G, Buscema M, Casazza G, Cattaneo M. Prediction of optimal warfarin maintenance dose using advanced artificial neural networks. Pharmacogenomics. 2014 Jan;15(1):29-37. doi: 10.2217/pgs.13.212. PubMed PMID: 24329188.

146: Rotondano G, Cipolletta L, Koch M, Bianco MA, **Grossi E**, Marmo R; PNED (Progetto Nazionale Emorragie Digestive) Investigators. Predictors of favourable outcome in non-variceal upper gastrointestinal bleeding: implications for early discharge? Dig Liver Dis. 2014 Mar;46(3):231-6. doi: 10.1016/j.dld.2013.10.017. Epub 2013 Dec 19. PubMed PMID: 24361122.

147: Compare A, Mommersteeg PM, Faletra F, **Grossi E**, Pasotti E, Moccetti T, Auricchio A. Personality traits, cardiac risk factors, and their association with presence and severity of coronary artery plaque in people with no history of cardiovascular disease. J Cardiovasc Med (Hagerstown). 2014 May;15(5):423-30. doi: 10.2459/JCM.0b013e328365cd8c. PubMed PMID: 24572339.

148: Compare A, Zarbo C, Marín E, Meloni A, Rubio-Arias JA, Berengüí R, **Grossi E**, Shonin E, Martini G, Alcaraz PE. PAHA study: psychological active and healthy aging: psychological wellbeing, proactive attitude and happiness effects of whole-body vibration versus Multicomponent Training in aged women: study protocol for a randomized controlled trial. Trials. 2014 May 20;15:177. doi: 10.1186/1745-6215-15-177. PubMed PMID: 24886107; PubMed Central PMCID: PMC4039325.

149: Gironi M, Borgiani B, Farina E, Mariani E, Cursano C, Alberoni M, Nemni R, Comi G, Buscema M, Furlan R, **Grossi E**. A global immune deficit in Alzheimer's disease and mild cognitive impairment disclosed by a novel data mining process. J Alzheimers Dis. 2015;43(4):1199-213. doi: 10.3233/JAD-141116. PubMed PMID: 25201785.

150: Filiberti R, Fontana V, De Ceglie A, Blanchi S, **Grossi E**, Della Casa D, Lacchin T, De Matthaeis M, Ignomirelli O, Cappiello R, Foti M, Laterza F, Annese V, Iaquinto G, Conio M. Smoking as an independent determinant of Barrett's esophagus and, to a lesser degree, of reflux

esophagitis. Cancer Causes Control. 2015 Mar;26(3):419-29. doi: 10.1007/s10552-014-0518-8. Epub 2015 Jan 3. PubMed PMID: 25555994.

151: Smerieri A, Testa C, Lazzeroni P, Nuti F, **Grossi E**, Cesari S, Montanini L, Latini G, Bernasconi S, Papini AM, Street ME. Di-(2-ethylhexyl) phthalate metabolites in urine show age-related changes and associations with adiposity and parameters of insulin sensitivity in childhood. PLoS One. 2015 Feb 23;10(2):e0117831. doi: 10.1371/journal.pone.0117831. eCollection 2015. PubMed PMID: 25706863; PubMed Central PMCID: PMC4338209.

152: Coppedè F, **Grossi E**, Lopomo A, Spisni R, Buscema M, Migliore L. Application of artificial neural networks to link genetic and environmental factors to DNA methylation in colorectal cancer. Epigenomics. 2015 Apr;7(2):175-86. doi: 10.2217/epi.14.77. PubMed PMID: 25942531.

153: Drenos F, **Grossi E,** Buscema M, Humphries SE. Networks in Coronary Heart Disease Genetics As a Step towards Systems Epidemiology. PLoS One. 2015 May 7;10(5):e0125876. doi: 10.1371/journal.pone.0125876. eCollection 2015. PubMed PMID: 25951190; PubMed Central PMCID: PMC4423836.

154. **Grossi E**, Cazzaniga S, Crotti S, Naldi L, Di Landro A, Ingordo V, Cusano F, et al. 2016. "The constellation of dietary factors in adolescent acne: a semantic connectivity map approach." Journal of the European Academy of Dermatology and Venereology : JEADV 30 (1): 96-100. doi:10.1111/jdv.12878. 2015

155: Buscema M, Vernieri F, Massini G, Scrascia F, Breda M, Rossini PM, **Grossi E**. An improved I-FAST system for the diagnosis of Alzheimer's disease from unprocessed electroencephalograms by using robust invariant features. Artif Intell Med. 2015 May;64(1):59-74. doi: 10.1016/j.artmed.2015.03.003. Epub 2015 May 12. PubMed PMID: 25997573.

156.**Grossi E**, Stoccoro A, Tannorella P, Migliore L, Coppedè F. 2016. "Artificial Neural Networks Link One-Carbon Metabolism to Gene-Promoter Methylation in Alzheimer's Disease." Journal of Alzheimer's disease : JAD doi:10.3233/JAD-160210.

157.**Grossi E**, Veggo F, Narzisi A, Compare A, Muratori F. 2016. "Pregnancy risk factors in autism: a pilot study with artificial neural networks." Pediatric research 79 (2): 339-47. doi:10.1038/pr.2015.222.

158.Gallucci M, Spagnolo P, Aricò M, **Grossi E**. 2016. "Predictors of Response to Cholinesterase Inhibitors Treatment of Alzheimer's Disease: Date Mining from the TREDEM Registry." Journal of Alzheimer's disease : JAD 50 (4): 969-79. doi:10.3233/JAD-150747.

159. Santocchi E, Guiducci L, Fulceri F, Billeci L, Buzzigoli E, Apicella F, Calderoni S, **Grossi E.** 2016. "Gut to brain interaction in Autism Spectrum Disorders: a randomized controlled trial on the role of probiotics on clinical, biochemical and neurophysiological parameters." BMC psychiatry 16: 183. doi:10.1186/s12888-016-0887-5.

160: **Grossi E**, Melli S, Dunca D, Terruzzi V. Unexpected improvement in core autism spectrum disorder symptoms after long-term treatment with probiotics. SAGE OpenMed Case Rep. 2016 Aug 26;4:2050313X16666231. doi: 10.1177/2050313X16666231.PubMed PMID: 27621806; PubMed Central PMCID: PMC5006292.

161: **Grossi E,** Stoccoro A, Tannorella P, Migliore L, Coppedè F. Artificial NeuralNetworks Link One-Carbon Metabolism to Gene-Promoter Methylation in Alzheimer'sDisease. J Alzheimers Dis. 2016 Jul 1;53(4):1517-22. doi: 10.3233/JAD-160210.PubMed PMID: 27392858.

163: Strawbridge RJ, Hilding A, Silveira A, Österholm C, Sennblad B, McLeod O, Tsikrika P, Foroogh F, Tremoli E, Baldassarre D, Veglia F, Rauramaa R, Smit AJ, Giral P, Kurl S, Mannarino E, **Grossi E**, Syvänen AC, Humphries SE, de Faire U, Östenson CG, Maegdefessel L, Hamsten A, Bäcklund A; IMPROVE Study Group.. SolubleCD93 Is Involved in Metabolic Dysregulation but Does Not Influence CarotidIntima-Media Thickness. Diabetes. 2016 Oct;65(10):2888-99. doi: 10.2337/db15-1333. PubMed PMID: 27659228; PubMed Central PMCID: PMC5033267.

164: Drago L, Toscano M, De Grandi R, **Grossi E**, Padovani EM, Peroni DG. Microbiota network and mathematic microbe mutualism in colostrum and mature milk collectedin two different geographic areas: Italy versus Burundi. ISME J. 2016 Dec 16.doi: 10.1038/ismej.2016.183. [Epub ahead of print] PubMed PMID: 27983720

165: Fabio M Ulivieri, Luca P Piodi, **Enzo Grossi**, Luca Rinaudo, Carmelo Messina, Anna P Tassi, Marcello Filopanti, Anna Tirelli, Francesco Sardanelli (2018) The role of carboxy-terminal cross-linking telopeptide of type I collagen, dual x-ray absorptiometry bone strain and Romberg test in a new osteoporotic fracture risk evaluation: A proposal from an observational study. PloS one 13: 1. 01.