

R. PILLOTON - CURRICULUM VITAE



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[Roberto Pilloton](#)
[Consiglio Nazionale delle Ricerche](#)
[Istituto per l'inquinamento atmosferico \(IIA\),](#)
[Via Salaria km 29.3 Monterotondo, 00015 Rome Italy](#)
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pilloton@iaa.cnr.it
<http://www.biosensing.net>
01/02/1960 Rome, Italy

Higher Education

Degree in Chemistry (110/110 cum laude), October 1986, La Sapienza, University of Rome, Italy. Thesis: Electrochemical Biosensors for Food

Professional qualification

Analytical Chemistry (*October 1986*)

Skills & activities

Bioanalytical methods based on electrochemical biosensors for food (white and red wines, grapes, must and juice fruits) and environment. Electrochemical biosensor development for glucose, lactose, lactic acid, pyruvic acid, choline, acetylcholine, phenolic compounds, lipids, alcohols, organophosphoric and carbamic pesticides, herbicides. *Environmental Analytical Chemistry. Screen Printing. Mediated Electrochemistry, direct electron transfer. Inhibition Biosensors. Pesticide Toxicity. Enzyme Inhibitors: cholinesterase inhibitors, PSII inhibitors.* Photosynthetic Biosensors. Enzyme biosensors. Microbial biosensors. Flow through ion selective electrodes for potassium. Screen printed electrodes. Application of the above mentioned sensors to artificial pancreas monitoring (Betalike Ansaldo ESAOTE), food analysis and process monitoring. Flow injection analysis and its application in the field of biosensors and process monitoring. Hollow fibre membrane bioreactor for lactose hydrolysis. Molecular Imprinted Polymers for Integrated Chemical Sensors. Lab on a chip. Electrode microarray. Nanostructured electrodes and nano electrode ensembles (NEE). Surface functionalisation. Covalent immobilisation of biomolecules. Electrochemical addressing of engineered biological molecules on micro-electrode arrays and their oriented and reversible immobilisation. Ni-NTA chelators. (His)₆ Tag. Self assembled monolayers, *surface science*.

Funded projects:
Partnership and leadership

- Responsible for CNR of Bilateral Contract between Italy and Romania (2006)
- Responsible for CNR of Bilateral Contract with TUBITAK (Turkey, 2003)
- Responsible for ENEA of μ -sys project: FIRB, Fondo Italiano per la ricerca di base (2003-2005)
- Participant to EU Project: EU FW5 PROSEPMILK: ROBust Chemical SENSors and biosensor for raPid on-line identification of fReshly cOLlected MILK (2002-2004)
- Responsible of CalPark Project and teacher of a Higher education course on Biosensors (University of Calabria, 2002)
- Responsible of the Enea Target Project P878 COSMIC: Coupling Smart Molecules Into Chips
- Responsible for ENEA of SIMOFE Project: "Sistema Multisensore per il monitoraggio dei processi fermentativi nella produzione di formaggi tipici regionali", Progetto PROBIO, Fondi Europei di Sviluppo Regionale (FESR, 1999-2001)
- Participant to Project: LG 950980 NATO: "Isolated Photosystem II Complex as a biosensor for monitoring photosynthetic herbicides" (1998-2000)
- Participant to EU Project: BRITE-EURAM 95-1745: MIMICS: Molecularly Imprinted Materials for Integrated Chemical Sensors (1995-1997)
- Participant to EU project: EV5V-CT94-0358: "Development and validation of s-triazine and pyrethroid specific immunosensor" (1994-1996)

Conference chair	He was the chairman of 2 national and 4 international conferences
Referee of int. journals	Guest editor of international journals (4 issues). Reviewer of International Journal on Environmental Analytical Chemistry, Food Chemistry, Bioelectrochemistry, Journal of Molecular Catalysis B: Enzymatic, Talanta, Materials Science and Engineering C, Analytica Chimica Acta, Sensors & Actuators: B: Chemical, Colloids and Surfaces B: Biointerfaces, Sensors, e-Journal on Biotechnology, Bioelectrochemistry, RSC Advances, Food Technology and Biotechnology, Analytical Letters, Journal of Sensors, International Journal of Electrochemistry, Journals of Hindawi Publishing Corporation, Applied Clay Science.
Training	He was the tutor of several (23) degree and PhD theses from abroad and from Italian Universities, national and international fellows (8). Higher education and specialization courses in Biotechnology and invited lessons and lectures on biosensors at the universities of Pavia, Pisa, Rome, Salerno, Trento, Turin, Ca' Foscari Venice, Midland, Izmir (Ege University, Turkey), Pammukalè (Turkey), CEA (Orsay, France), Českých Budějovicích (Czech Rep.). He also taught courses on Environmental Analytical Chemistry at University of Pavia and at University of Trento as Adjunct Professor (Professore a contratto)
Chronology	
2016 - 2017	Chair of BBMEC 2017 – CNR Rome
June 2014	Finalist in the EDISON-Start award with the project DRESS-Code together with AMD L
2014 - 2018	Elected member of the Executive Committee of IAEAC
2014 - 2015	Member of the Scientific Committee of BBMEC 2015 - University of Regensburg
2013 - today	Senior Researcher @ CNR – IIA (Institute on Atmospheric Pollution)
2013 - today	Associate Researcher @ INAF – IAPS Institute for Space Astrophysics and Planetology
2012	Senior Researcher @ CNR – IFN (Institute for Photonics and Nanotechnology)
2010	Chairman of “The 36th International Symposium on Environmental Analytical Chemistry” held in Rome October 5 th -9 th 2010.
2010	Elected member of the Executive Committee of IAEAC
2010	Adjunct Professor for the Master Course on “Nano on Micro” @ University of Trento
2009 - 2012	Senior researcher at ENEA
2007	Chairman of “The 8 th International Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Analytical Chemistry” held in Goa (India) October 3 th -6 th
2006	Responsible for CNR of Bilateral Contract between Italy and Romania
2006	Adjunct Professor for the Master Course on “Nano e Microsistemi elettromeccanici” @ Istituto Trentino di Cultura (ITC)
2006	Elected member of the Executive Committee of IAEAC
2004	Chairman of “The 6 th International Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Analytical Chemistry” held in Rome October 8 th -12 th
2003	Responsible for CNR of Bilateral Contract with TUBITAK (Turkey)
2003	Responsible for ENEA of μ -sys project: FIRB, Fondo Italiano per la ricerca di base
2002	Responsible for ENEA of Regional Project (POR Lazio): WINEOCRATOX
2002	Participant to EU Project: EU FW5 PROSEPMILK: ROBust Chemical SENSors and biosensor for raPid on-line identification of fReshly cOLlected MILK
2002	Responsible of CalPark Project and teacher of Higher Education course on Biosensors (University of Calabria)
2001	Responsible of the Enea Target Project COSMIC: Coupling Smart Molecules Into Chips
2000	Adjunct Professor of Environmental Analytical Chemistry at Università di Pavia
1999	Responsible for ENEA of SIMOFE Project: “Sistema Multisensore per il monitoraggio dei processi fermentativi nella produzione di formaggi tipici regionali”, Progetto PROBIO, Fondi Europei di Sviluppo Regionale (FESR)
1999	Chairman of the 2 nd Workshop on Chemical Sensors and Biosensors -18-19/03/1999

1998 Participant to Project: LG 950980 NATO: "Isolated Photosystem II Complex as a biosensor for monitoring photosynthetic herbicides"

1997 - today Biosensing.net Website started

1997 Visiting scientist at Thomson Paris (FR), Dr.F.Lipskier

1996 Visiting scientist @ Pure & Applied Chemistry Laboratory - Prof. Mossbach, Lund (SE)

1995 Participant to EU Project: BRITE-EURAM 95-1745: MIMICS: Molecularly Imprinted Materials for Integrated Chemical Sensors.

1994 Visiting scientist at Institut fur Technische Biochemie, Prof. R.Schmidt, Stuttgart (DE)

1994 Visiting scientist at GBF, Gesellschaft fur Biotech. Forschung, Prof.U.Bilitevsky, Braunschweig (DE)

1994 Participant to EU project: EV5V-CT94-0358: "Development and validation of s-triazine and pyrethroid specific immunosensor"

1993 Chairman of a one day national workshop on biosensors at ENEA

1991 - 2009 Researcher at ENEA, Via Anguillarese 301, 00060, Santa Maria di Galeria Roma

1991 Winner of PhD fellowship in Analytical Chemistry at University of Rome "La Sapienza"

1991 Grant (ENEA) Automated glucose biosensor based on FIA for lactose hydrolysis in milk

1990 Grant (ENEA) Automated glucose biosensor based on FIA for lactose hydrolysis in milk

1989 Grant (ENEA) funded by IDRONAUT, Brugherio (MI): "ISE for K⁺, Ca²⁺, Na⁺ and pH for kidney dialysis treatment"

1988 Grant (ENEA) Hollow fiber membrane enzyme reactor for lactose hydrolysis in dairy wastes

1987 - 1988 Grant (University of Rome Tor Vergata), funded by Ansaldo - ESAOTE Elettronica Biomedicale, Genova: "Sensor and biosensor development for artificial pancreas "

1986 - 1987 Grant (University of Rome Tor Vergata) funded by Ansaldo - ESACONTROL Elettronica Biomedicale, Genova: "Sensor and biosensor development for artificial pancreas "

1986 Professional qualification in Analytical Chemistry

1986 Degree in Analytical Chemistry (110/110 cum laude) at the Un. of Rome (Italy) with the thesis entitled: "Electrochemical Biosensors for Food" and Prof.M.Mascini as referent.

1974 - 1978 Secondary school at Liceo Scientifico Archimede, Sez.B, Roma

[Publication List & full text papers](#)

1. M. Pea, L. Maiolo, **R.Pilloton**, A. Rinaldi, R. Araneo, E. Giovine, A. Orsini, A. Notargiacomo: *ZnO nanowires strips growth: Template reliability and morphology study*. *Microelectronic Engineering* 06/2014; 121:147-152.
2. D.Albanese, F.Malvano, A.Sannini, **R.Pilloton**, M.Di Matteo: *A Doped Polyaniline Modified Electrode Amperometric Biosensor for Gluconic Acid Determination in Grapes..* *Sensors* 01/2014; 14(6):11097-11109.
3. D.Albanese, A.Sannini, F.Malvano, **R.Pilloton**, M.Di Matteo: *Optimisation of Glucose Biosensors Based on Sol-Gel Entrapment and Prussian Blue-Modified Screen-Printed Electrodes for Real Food Analysis*. *Food Analytical Methods* 01/2013;
4. D. Albanese, M. Di Matteo, **R.Pilloton**: *Quantitative screening of carbamic and organophosphate pesticides mixture in extra virgin olive oil by acetylcholinesterase-choline oxidase sensor*. *Journal of Environmental Engineering and Science* 01/2012;
5. **R.Pilloton**: *Preface*. *International Journal of Environmental Analytical Chemistry* 01/2012;
6. M.K.Sezgintürk, D.Odaci, N.Pazarlioglu, **R.Pilloton**, E.Dinçkaya, A. Telefoncu, S.Timur: *Construction and comparison of Trametes versicolor laccase biosensors capable of detecting xenobiotics..* *Artificial Cells Blood Substitutes and Biotechnology (formerly known as Artificial Cells Blood Substitutes and Immobilization Bi* 04/2010; 38(4):192-9.
7. M.Ilie, R.DeJ.a, V.Foglietti, R.Renda, L. Nardi, A. Masci, B. Lanza, M.R. Montereali, L. Della Seta, W. Vastarella, **R.Pilloton**: *Engineering a continuous flow electrochemical micro-cell for biosensor applications: new achievements*. *International Journal of Environmental Analytical Chemistry* 01/2010; 90:31-39.
8. M. R. Montereali, L. Della Seta, W. Vastarella, **R.Pilloton**: *A disposable Laccase-Tyrosinase based biosensor for amperometric detection of phenolic*

- compounds in must and wine*. Journal of Molecular Catalysis B Enzymatic 01/2010; 64(3):189-194.
9. W. Vastarella, J. Maly, M.Ilie, **R.Pilloton**: *Integration Between Template-Based Nanostructured Surfaces and Biosensors*. 05/2009: pages 377 - 419; , ISBN: 9780470447734
 10. D.Odaci, M.K.Sezgingtürk, S.Timur, N.Pazarlioglu, **R.Pilloton**, E.Dinçkaya, A. Telefoncu: *Pseudomonas putida based amperometric biosensors for 2,4-D detection..* Preparative Biochemistry & Biotechnology 02/2009; 39(1):11-9.
 11. M. Ilie, E. Ovreiu, R. DeJ.a, V. Foglietti, L. Nardi, A. Masci, B. Lanza, L. Della Seta, M.R.Monteriali, W. Vastarella, **R.Pilloton**: *Developing a miniaturized continuous flow electrochemical cell for biosensor applications*. Proc SPIE 01/2009;
 12. L. Della Seta, W. Vastarella, M.R. Monteriali, M.Ilie, V.Foglietti, **R.Pilloton**: *A PRELIMINARY STUDY ON BIO-NANO-ELECTRODES: ELECTROCHEMISTRY AND SURFACE OBSERVATION*. Micromechanic. 01/2009;
 13. W Vastarella, M De Leo, J Maly, A Mas, **R.Pilloton**: *BIOSENSORS BASED ON NANO ELECTRODE ENSEMBLE AND SCREEN PRINTED SUBSTRATES*. Sensors and Microsystems, World Scientific Pub., (2008) ISBN 981 279 338 0. 12/2008;
 14. **R.Pilloton**: *Simulazioni di Meritocrazia*. Sapere. 01/2008;
 15. J. Maly, A. Masci, J. Masojidek, M. Sugiura, **R.Pilloton**: *Monolayers of Natural and Recombinant Photosystem II on Gold Electrodes—Potentials for Use as Biosensors for Detection of Herbicides*. Analytical Letters 08/2007; 37(8):1645-1656.
 16. D.Odaci, S.Timur, N.Pazarlioglu, M.R. Monteriali, W. Vastarella, **R.Pilloton**, A. Telefoncu: *Determination of phenolic acids using Trametes versicolor laccase..* Talanta 03/2007; 71(1):312-7.
 17. W. Vastarella, V.Rosa, C. Cremisini, L. Della Seta, M.R. Monteriali, **R.Pilloton**: *A preliminary study on electrochemical biosensors for the determination of total cholinesterase inhibitors in strawberries*. International Journal of Environmental Analytical Chemistry 02/2007; 87:689-699.
 18. W. Vastarella, L. Della Seta, A. Masci, J. Maly, M.De Leo, L.M. Moretto, **R.Pilloton**: *Biosensors based on gold nanoelectrode ensembles and screen printed electrodes*. International Journal of Environmental Analytical Chemistry 01/2007; 87:701-714.
 19. W Vastarella, A Masci, P Scopece, L M Moretto, R Pilloton: *SYNTHESIS OF GOLD NANO-ELECTRODE ENSEMBLES FOR BIOSENSING APPLICATIONS*. Nanomec 2006. 01/2006;
 20. J Maly, J Masojidek, A Masci, M Ilie, E Cianci, V Foglietti, W Vastarella, R Pilloton: *Direct mediatorless electron transport between the monolayer of photosystem II and poly(mercapto-p-benzoquinone) modified gold electrode--new design of biosensor for herbicide detection..* Biosensors and Bioelectronics 01/2006; 21(6):923-32.
 21. L. DELLA SETA, J. MALY, E. CIANCI, T. FARNETI, V. FOGLIETTI, M. ILIE, A. MASCI, M. R. MONTEREALI, W. VASTARELLA, **R.PILLOTON**, Repubblica Ceca: *Il trasferimento elettronico diretto tra biomolecole ed elettrodi modificati con polimeri conduttori*. Energia Ambiente e Innovazione ISSN 1124-0016. 10/2005;
 22. J Maly, J Krejci, M Ilie, L Jakubka, J Masojidek, R Pilloton, K Sameh, P Steffan, Z Stryhal, M Sugiura: *Monolayers of photosystem II on gold electrodes with enhanced sensor response--effect of porosity and protein layer arrangement..* Analytical and Bioanalytical Chemistry 05/2005; 381(8):1558-67.
 23. J. Maly, M.Ilie, V.Foglietti, E. Cianci, A. Minotti, B. Lanza, L. Nardi, A. Masci, W. Vastarella, **R.Pilloton**: *Electrochemically addressed biomolecules onto Au micro-array in a continuous flow microchamber*. Micro Total Analysis Systems Volume 2, Royal Society of Chemistry (2004) 297, 512-514 ISBN:0854048960. 04/2005; 297(2):512-514.
 24. U.A.Kirgöz, H.Tural, S.Timur, N.Pazarlioglu, A. Telefoncu, **R.Pilloton**: *Laccase biosensors based on mercury thin film electrode..* Artificial Cells Blood Substitutes and Biotechnology 02/2005; 33(4):447-56.
 25. E Podestá, C Botré, R Pilloton, F. Mazzei: *A SCREEN-PRINTED ENZYMATICAL ELECTRODE FOR THE DETERMINATION OF ORGANO-PHOSPHOROUS*

- PESTICIDES*. Sensors and Microsystems, World Scientific Pub., (2004) ISBN 981 238 747 1. 01/2005;
26. J Maly, M Ilie, V Foglietti, E Cianci, A Minotti, B Lanza, A Masci, W Vastarella, R Pilloton: *ORIENTED AND REVERSIBLE IMMOBILISATION OF RECOMBINANT PROTEINS ON GOLD μ -ARRAY*. Sensors and Microsystems, World Scientific Pub., (2005) ISBN 981-256-386-5. 01/2005;
 27. W. Vastarella, J. Maly, A. Masci, C.Di Meo, Valentina Pinto, C. Cremisini, **R.Pilloton**: *Biosensori: le nuove tecnologie tra biologia molecolare e nanotecnologie*. ENERGIA, AMBIENTE E INNOVAZIONE ISSN 1124-0016. 01/2005;
 28. M.R. Montereali, W. Vastarella, L. Della Seta, **R.Pilloton**: *Tyrosinase biosensor based on modified screen printed electrodes: measurements of total phenol content*. International Journal of Environmental Analytical Chemistry 01/2005; 85:795-806.
 29. M Ilie, V Foglietti, E Cianci, A Minotti, E Vasile, L Nardi, J Maly, A Masci, R Pilloton: *CONNECTING CAPILLARIES TO A MICROREACTOR STRUCTURED IN BOROFLOAT® GLASS*. Sensors and Microsystems, World Scientific Pub., (2005) ISBN 981-256-386-5. 01/2005;
 30. **R.Pilloton**: *Preface*. International Journal of Environmental Analytical Chemistry 01/2005;
 31. J. Maly, J. Masojidek, A. Masci, M.Ilie, E. Cianci, V.Foglietti, W. Vastarella, **R.Pilloton**: *Direct mediatorless electron transport between photosystem II and poly(mercapto-p-benzoquinone) modified gold electrode: new design of biosensor for herbicide detection*. Sensors and Microsystems, World Scientific Pub., (2008) ISBN 10 983 283 352 8. 01/2005;
 32. J. Maly, M. Ilie, V. Foglietti, E. Cianci, A. Minotti, L. Nardi, A. Masci, W. Vastarella, **R.Pilloton**: *Continuous flow micro-cell for electrochemical addressing of engineered bio-molecules*. Sensors and Actuators B Chemical 01/2005; 111:317-322.
 33. W. Vastarella, B Lanza, A Masci, R Pilloton: *SCREEN PRINTED ELECTRODES FOR BIOSENSOR APPLICATION: REPRODUCIBILITY, SENSITIVITY AND STABILITY **. Sensors and Microsystems, World Scientific Pub., (2005) ISBN 981-256-386-5. 01/2005;
 34. **R.Pilloton**, F. Mazzei: *Biosensors and bioanalytical micro-techniques in environmental and clinical chemistry*. Energia, Ambiente e Innovazione 10/2004; ENEA.
 35. W. Vastarella, **R.Pilloton**: *Biosensori ad inibizione per pesticidi*. La chimica e l'industria. 09/2004;
 36. F. Mazzei, F.Botrè, S. Montilla, **R.Pilloton**, E.Podestà, C.Botrè: *Alkaline phosphatase inhibition based electrochemical sensors for the detection of pesticides*. Journal of electroanalytical chemistry 08/2004;
 37. J Maly, C Di Meo, M De Francesco, A Masci, J Masojidek, M Sugiura, A Volpe, R Pilloton: *Reversible immobilization of engineered molecules by Ni-NTA chelators..* Bioelectrochemistry 07/2004; 63(1-2):271-5.
 38. W. Vastarella, J. Maly, A. Masci, M.R. Montereali, L. Della Seta, B. Lanza, C. Cremisini, **R.Pilloton**: *Biosensori elettrochimici a inibizione basati su molecole e cellule ricombinanti*. Energia Ambiente e Innovazione ISSN 1124-0016. 01/2004;
 39. C. Di Meo, L. Della Seta, M. De Francesco, A. Masci, V. Pinto, **R.Pilloton**: *Reversible immobilisation of engineered molecules by Ni-NTA chelators*. Sensors and Microsystems, World Scientific Pub., (2004) ISBN 981 238 747 1. 01/2004;
 40. F. Mazzei, **R.Pilloton**: *Il silicio incontra le proteine all'ENEA*. Energia Ambiente e Innovazione ISSN 1124-0016. 01/2004;
 41. L Della Seta, S Marino, A Masci, R Pilloton: *SCREEN PRINTED BIOSENSORS BASED ON OXYGEN SENSING: USE OF PERM SELECTIVE MEMBRANES*. Sensors and Microsystems, World Scientific Pub., (2004) ISBN 981 238 747 1. 01/2004;
 42. S.Timur, L. Della Seta, N.Pazarlioğlu, **R.Pilloton**, A. Telefoncu: *Screen printed graphite biosensors based on bacterial cells*. PROCESS BIOCHEMISTRY 01/2004;

43. A.Boni, C. Cremisini, E. Magarò, M. Tosi, W. Vastarella, **R.Pilloton**: *Optimized Biosensors Based on Purified Enzymes and Engineered Yeasts: Detection of Inhibitors of Cholinesterases on Grapes*. Analytical Letters 01/2004; 37(8):1683-1699.
44. S.Timur, N.Pazarlioğlu, **R.Pilloton**, A. Telefoncu: *Thick film sensors based on laccases from different sources immobilized in polyaniline matrix*. Sensors and Actuators B Chemical 01/2004;
45. S.Timur, N.Pazarlioğlu, **R.Pilloton**, A. Telefoncu: *Detection of phenolic compounds by thick film sensors based on Pseudomonas putida..* Talanta 11/2003; 61(2):87-93.
46. M. Koblizek, J. Malý, Jirí Masojídek, J.Komenda, T.Kucera, M.T.Giardi, A.K.Mattoo, **R.Pilloton**: *A biosensor for the detection of triazine and phenylurea herbicides designed using Photosystem II coupled to a screen-printed electrode..* Biotechnology and Bioengineering 05/2002; 78(1):110-6.
47. S.Timur, A. Masci, **R.Pilloton**, A. Telefoncu: *OXIDIZED CARBON POWDER FOR ENZYME IMMOBILIZATION ON SCREEN PRINTED BIOSENSORS*. Sensors and Microsystems, World Scientific Pub., (2002) ISBN 981 238 181 3. 01/2002;
48. L. Della Seta, A. Masci, **R.Pilloton**: *A new layout for screen printed electrodes: front-back geometry*. Sensors and Microsystems, World Scientific Pub., (2002) 256-261 ISBN 981 238 181 3. 01/2002;
49. G Favero, S Marino, **R.Pilloton**: *Disposable screen printed potentiometric sensors for determination of radicals*. Sensors and Microsystems, World Scientific Pub., (2002) 256-261 ISBN 981 238 181 3. 01/2002;
50. J Maly, E Illiano, M Sabato, M De Francesco, V Pinto, A Masci, D Masci, J Masojidek, M Sugiura, R F.ni, R Pilloton: *Immobilisation of engineered molecules on electrodes and optical surfaces*. Materials Science and Engineering C 01/2002;
51. L. Della Seta, S. Marino, A. Masci, **R.Pilloton**: *Screen Printed mu-ELECTRODES for Photochemical Applications*. Sensors and Microsystems, World Scientific Pub., (2000) ISBN 981 02 4487 8. 10/2000;
52. M Rizzuto, C Polcaro, C Desiderio, M Koblizek, R Pilloton, MT Giardi: *HERBICIDE MONITORING IN SURFACE WATER SAMPLES WITH A PHOTOSYSTEM-II BASED BIOSENSOR*. Proceedings of the 2nd WORKSHOP ON CHEMICAL SENSORS AND BIOSENSORS - Rome March 18th-19th 1999 - ISBN88-8286-072-8. 10/1999;
53. S. Marino, G. Minervini, M. R. Montereali, C. Cremisini, A. Masci, **R.Pilloton**: *"SCREEN PRINTING" FOR CHEMICAL SENSOR AND BIOSENSOR PRODUCTION*. Proceedings of the 2nd WORKSHOP ON CHEMICAL SENSORS AND BIOSENSORS - Rome March 18th-19th 1999 - ISBN88-8286-072-8. 10/1999;
54. P.Morales, L.Giulietti, L.Mosiello, **R.Pilloton**, F. Bordoni, G.DeGasperi, S.Sperandii, S.Santucci, E.DiFabrizio: *BIOLOGICAL AND ORGANIC MOLECULES PHOTOIONIZATION FOR BIOMOLECULAR DEVICE FABRICATION*. Proceedings of the 2nd WORKSHOP ON CHEMICAL SENSORS AND BIOSENSORS - Rome March 18th-19th 1999 - ISBN88-8286-072-8. 10/1999;
55. **R.Pilloton**: *Biosensori: un campo di ricerca in continua espansione*. Energia Ambiente e Innovazione ISSN 1124-0016. 01/1999;
56. **R.Pilloton**: *Molecular Imprinting: un nuovo approccio per il riconoscimento molecolare*. Energia Ambiente e Innovazione ISSN 1124-0016. 01/1999; 465:64-75.
57. M. Koblizek, J.Masojídek, J.Komenda, T.Kucera, A.K.Mattoo, M.T.Giardi, **R.Pilloton**: *TWO PHOTOSYSTEM II-BASED BIOSENSORS FOR DETECTION OF PHOTOSYNTHETIC HERBICIDES*. Proceedings of the 2nd WORKSHOP ON CHEMICAL SENSORS AND BIOSENSORS - Rome March 18th-19th 1999 - ISBN88-8286-072-8. 01/1999;
58. M Koblizek, J Masojidek, J Komenda, T Kucera, R Pilloton, A K Mattoo, M T Giardi: *A sensitive photosystem II-based biosensor for detection of a class of herbicides..* Biotechnology and Bioengineering 01/1999; 60(6):664-9.
59. L.Della Seta, **R.Pilloton**: *A SMALL AND INEXPENSIVE BIOSENSOR BASED DEVICE FOR ON LINE EVALUATION OF MICROALGAE METABOLISM INHIBITION*. Proceedings of the 2nd WORKSHOP ON CHEMICAL SENSORS

AND BIOSENSORS - Rome March 18th-19th 1999 - ISBN88-8286-072-8.
01/1999;

60. **R.Pilloton**: *Screen printed electrochemical biosensors on ceramic and polymeric substrates*. Advances in science and technology, vol.26 - Solid state chemical and biochemical sensors (1999). 01/1999;
61. **R.Pilloton**, F. Mazzei: *WORKSHOP ALL'ENEA SUI SENSORI CHIMICI E BIOSENSORI*. Energia Ambiente e Innovazione ISSN 1124-0016. 01/1999;
62. **R.Pilloton**, F. Mazzei: *Chemical Sensors and Biosensors*. Energia, Ambiente e Innovazione 10/1998; ENEA.
63. **R.Pilloton**: *Il settore turistico e i beni culturali in Italia: applicazioni di tecniche metodologiche avanzate*. 11/1997: pages 59-70;
64. L.Mosiello, **R.Pilloton**: *BIOSENSORI: PROSPETTIVE IN CAMPO AMBIENTALE*. ANPA. 01/1997;
65. E. Di Fabrizio, M. Gentili, P. Morales, **R.Pilloton**, J. Mela, S. Santucci, A. Sese: *Microlithographic techniques for laser assisted fabrication of bioelectronic devices*. Applied Physics Letters 11/1996; 69(21):3280-3282.
66. C. Creminini, S. Di Sario, J. Mela, **R.Pilloton**, G. Palleschi: *Italy - Evaluation of free and immobilised acetylcholinesterase for paraoxon detection*. Biosensors and Bioelectronics 01/1996; 11(1).
67. C. Creminini, S. Di Sario, J. Mela, **R.Pilloton**, G. Palleschi: *Evaluation of the use of free and immobilised acetylcholinesterase for paraoxon detection with an amperometric choline oxidase based biosensor*. Analytica chimica acta 01/1995; 311(3):273-280.
68. S. Canofeni, S. Di Sario, J. Mela, **R.Pilloton**: *Comparison of Immobilisation Procedures for Development of an Electrochemical PPO-Based Biosensor for on Line Monitoring of a Depuration Process*. Analytical Letters 07/1994; 27(9):1659-1669.
69. **R.Pilloton**, G. Mignogna, A. Fortunato: *Entirely Automated Glucose Monitoring System Based On A Flow Injection Analysis Apparatus*. Analytical Letters 03/1994; 27(5):833-848.
70. **R.Pilloton**: *Amperometric biosensors for the determination of phenolic compounds*. life chemistry reports. 01/1994; 11:321-331.
71. **R.Pilloton**: *Whole plant tissue bioreactor for enzymatic degradation of mono and poly phenols*. Trends in Ecological Physical Chemistry ISBN 0 444 89646 5. 01/1993;
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- J.Maly, A.Masci, J.Masojidek, **R.Pilloton**, M.Sugiura, A.Volpe
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- 64) μ TAS 2004 September 26-30, Malmö, Sweden; ELECTROCHEMICALLY ADDRESSED BIOMOLECULES ONTO Au μ -ARRAY IN A CONTINUOUS FLOW μ -CHAMBER; J.Maly, M.Ilie, V.Foglietti, E.Cianci, A. Minotti, B.Lanza, L. Nardi, A.Masci, W. Vastarella, **R.Pilloton**
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- 69) M. ILIE, V. FOGLIETTI, E. CIANCI, A. MINOTTI, E. VASILE, L. NARDI, J. MALY, **R.PILLOTON**, A. MASCI
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- 77) Sixth Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Clinical Analysis, Rome, Italy, October 8-12, 2004; ELECTROCHEMICALLY DRIVEN IMMOBILIZATION OF BIOMOLECULES IN A CONTINUOUS FLOW μ -CELL, J. Maly, J. Krejci, M. Ilie, L. Nardi, E. Cianci, A. Masci, V. Foglietti, W. Vastarella, **R.Pilloton**
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- 81) EUROSENSORS XIX, 11-14 September, 2005, Barcelona, Spain; POLYPHENOLS CONTENT IN REAL WINE SAMPLES WITH A TYROSINASE BIOSENSOR BASED ON FERROCENE MODIFIED SCREEN PRINTED ELECTRODES; M.R. Montereali, K.Punakivi, W. Vastarella, L. Della Seta and **R.Pilloton**
- 82) 2nd International Symposium on Recent Advances in Food Analysis, November 2-4, 2005 Prague, Czech Republic DETECTION OF BIOGENIC AMINES IN WINE SAMPLES WITH ABIOSENSOR BASED ON MODIFIED SCREEN PRINTED ELECTRODES; K.Punakivi, W. Vastarella, M.R. Montereali, L. Della Seta and **R.Pilloton**
- 83) GEI 2005 Giornate dell'Elettrochimica Italiana, Spoleto, 11 – 15 settembre 2005; DIRECT MEDIATORLESS ELECTRON TRANSPORT BETWEEN MONOLAYERS OF PHOTOSYSTEM II AND MODIFIED GOLD ELECTRODES; J. Maly, L.Della Seta, M. Ilie, M.Montereali, K.Punakivi, W. Vastarella and **R.Pilloton**
- 84) The 7th Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Clinical Analysis, September 10-14 2006, Kusadasy (TR); THE STUDY OF ELECTROCHEMICAL ADSORPTION AND DESORPTION PROCESSES OF THIOALKANE LAYERS USING ELECTROCHEMICAL SURFACE PLASMON RESONANCE – TOWARDS DEVELOPMENT OF NOVEL SITE SELECTIVE IMMOBILIZATION; Maly J., **R.Pilloton**, Ilie M., Stofik M., Foglietti V., Cianci E.
- 85) The 7th Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Clinical Analysis, September 10-14 2006, Kusadasy (TR); A BIOSENSOR FOR PHENOLS BASED ON IMMOBILISED TYROSINASE IN A DIGLYCERILSILANE SOL-GEL MATRIX AND SCREEN PRINTED (GRAPHITE-FERROCENE) ELECTRODES; M.R.Montereali, J.Maly1, L.Nardi, K.Punakivi, W.Vastarella and **R.Pilloton**
- 86) The 7th Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Clinical Analysis, September 10-14 2006, Kusadasy (TR); ENGINEERING A CONTINUOUS FLOW ELECTROCHEMICAL μ -CELL FOR BIOSENSOR APPLICATIONS, M. Iliea, B. Lanza, A. Masci, L. Nardi, E. Cianci, A. Coppa, V. Foglietti and **R.Pilloton**
- 87) The 7th Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Clinical Analysis, September 10-14 2006, Kusadasy (TR); BIOSENSORS BASED ON GOLD NANOELECTRODE ENSEMBLES AND SCREEN PRINTED ELECTRODES; W.Vastarella, A.Masci, J.Maly, M.De Leo and L.M.Moretto, **R.Pilloton**

- 88) The 7th Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Clinical Analysis, September 10-14 2006, Kusadasy (TR); PESTICIDES DETERMINATION IN ITALIAN STRAWBERRIES, V.Rosa, W.Vastarella, M.R.Monteriali, K.Punakivi, **R.Pilloton**
- 89) AISEM 2006, The XI conference of the Associazione Italiana Sensori e Microsistemi, Lecce, 8th-10th February 2006; IMPROVED CAPILLARIES CONNECTION TO A CONTINUOUS FLOW GLASS MICROMACHINED MICRO-CELL; W. Vastarella, L. Nardi, A. Masci, **R.Pilloton**, M. Ilie, V. Foglietti, E. Cianci, A. Minotti
- 90) AISEM 2006, The XI conference of the Associazione Italiana Sensori e Microsistemi, Lecce, 8th-10th February 2006; BIOSENSORS MADE with Au NANOWIRES: Au Nano Electrode Ensembles on Screen Printed Substrates (NEE/SPS) L.M.Moretto, M.De Leo, P.Ugo, J.Maly, W.Vastarella, L.Della Seta, A.Masci, **R.Pilloton**
- 91) AISEM 2007, The XII conference of the Associazione Italiana Sensori e Microsistemi, Napoli, 12th-14th February 2007; ASSEMBLY AND CHARACTERIZATION OF AN ENGINEERED MINIATURIZED ELECTROCHEMICAL CELL; M. Ilie, V. Foglietti, E. Cianci, A. Coppa, R. Dejana, L. Nardi, A. Masci, R. Renda, B. Lanza, L. Della Seta, **R.Pilloton**
- 92) The 8th Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Clinical Analysis October 3-6, 2007, GOA – INDIA, ENGINEERING A CONTINUOUS FLOW ELECTROCHEMICAL μ -CELL FOR BIOSENSOR APPLICATION. NEW ACHIEVEMENTS; M. Ilie, A. Masci L. Nardi, **R.Pilloton**, A. Coppa, R. Dejana, V. Foglietti
- 93) The 8th Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Clinical Analysis October 3-6, 2007, GOA – INDIA, Quartz-based multielectrode array for analytical diagnostics, C.Collini, A.Benvenuto, S.Pedrotti, L.Lorenzelli, A.Masci, M.Ilie, L.Nardi, **R.Pilloton**
- 94) The 8th Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Clinical Analysis October 3-6, 2007, GOA – INDIA; DEVELOPMENT OF A POTENTIOMETRIC METHOD FOR THE EVALUATION OF REDOX STATUS IN HUMAN SERUM; D.MARGINA, D.GRADINARU, M.ILIE, N.MITREA, V.FOGLIETTI, **R.PILLOTON**
- 95) The 8th Workshop on Biosensors and Bioanalytical μ -Techniques in Environmental and Clinical Analysis October 3-6, 2007, GOA – INDIA, Signal enhancement and reversible biomolecule addressing on nanostructured gold electrodes; W.Vastarella, J.Maly, **R.Pilloton**
- 96) Food-New Option for the Industry-EFFoST/EHEDG Joint Conference; Pratical application of research results Lisbona 14-16 november 2007 Pag.80 (2007). Screen printed biosensors for monitoring of alcoholic fermentation. Albanese D., Monteriali M.R., **Pilloton R.**, Vastarella W., Di Matteo M.
- 97) 8th Latinamerican Congress on Environmental Analytical and Sanitary Chemistry, San José City, Costa Rica, February 16–20, 2009; DIRECT MEDIATORLESS ELECTRON TRANSPORT BETWEEN MONOLAYERS OF PHOTOSYSTEM II AND MODIFIED GOLD ELECTRODES – FROM BIOSENSORS FOR HERBICIDE DETECTION TO MULTIANALYTE SILICON MICRO-ARRAYS; J. Maly, L.Della Seta, V.Foglietti, M.Ilie, A.Masci, M.R.Monteriali, L.Nardi, W.Vastarella and **R.Pilloton**
- 98) AISEM 2010 XV Conferenza Nazionale Sensori e Microsistemi, Messina 8-10 Febbraio 2010; ELECTROCHEMICAL AND MORPHOLOGICAL INVESTIGATION ON GOLD BIO-NANO-ELECTRODES; W.Vastarella, L.Della Seta, M.R.Monteriali, E.Serra, C.Cremisini, **R.Pilloton**
- 99) BIOPH2013, 28th - 30th October 2013 - Rome, Italy; Direct electron transfer between PSII and conductive polymers modified gold microelectrodes; **R.PILLOTON**
- 100) BIOPH2013 28th - 30th October 2013 - Rome, Italy; Oriented and Reversible immobilisation of engineered molecules by Ni-NTA Chelators; **R.PILLOTON**
- 101) Nanoforum 2013, September 18th-20th, Rome; Immobilisation of biological components on micro- or nano-electrode ensembles (NEE); A.Macagnano,

R.Pilloton

- 102) Nanoforum 2013, September 18th-20th, Rome; Screen printed bioanalytical devices for rapid screening of environmental or food samples; A.Macagnano, **R.Pilloton**
- 103) Nanoforum 2013, September 18th-20th, Rome; Bio-inspired Nanocomposite Biosensors; A.Macagnano, **R.Pilloton**
- 104) BiYosensor Congress, Namık Kema University, Tekirdag, June 21st-25th 2014, DIRECT MEDIATORLESS ELECTRON TRANSPORT BETWEEN GOLD ELECTRODES AND MONOLAYERS OF ENGINEERED PHOTOSYSTEM II REVERSIBLY IMMOBILISED BY Ni-NTA CHELATORS, D.Albanese, V.Foglietti, R.Franconi, M. Ilie, L.Lorenzelli, J.Maly, J.Masojidek, L.M.Moretto, M.Sugiura, S.Timur and **R.Pilloton** (invited Lecture)
- 105) XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014 - Università della Calabria 7-12 Settembre, 2014; Advanced Sensors for air pollution monitoring progress and future perspectives; N.Pirrone, A.Macagnano, A.Bearzotti, E.Zampetti, **R.Pilloton**
- 106) NANOFORUM, September 22nd-25th, 2014, Rome; THE ROLE OF NANOSTRUCTURED SENSORS AND INNOVATIVE STRATEGIES FOR ENVIRONMENTAL MONITORING; A.Bearzotti, A.Macagnano, E.Zampettim **R.Pilloton**
- 107) 3rd International Conference on Bio-Sensing Technology Sitges (Barcellona) 12-15 maggio 2013 Pag.P56 (2013) Glucose oxidase (GOx) biosensors by prussian blue (PB) modified screen-printed electrodes. D. Albanese, A. Sannini, F. Malvano, **R. Pilloton**, M. Di Matteo.
- 108) 3rd International Conference on Bio-Sensing Technology Barcellona maggio 2013 Pag.P55; (2013) .Comparison of TEOS (tetraethyl orthosilicate) and PVA (polyvinyl alcohol) for immobilization of glucose oxidase on screen-printed electrodes. D. Albanese, A. Sannini, **R. Pilloton**, A. Crescitelli

