

LIST OF PUBLICATIONS

PAPERS

1. **Bagno A**, Aguiari P, Fiorese M, Spina M, Gerosa G. *Native bovine and porcine pericardia respond to load with additive recruitment of collagen fibers*. *Artif Organs*. 2017 [Epub ahead of print].
2. Fidalgo C, Iop L, Sciro M, Harder M, Mavrilas D, Korossis S, **Bagno A**, Palù G, Aguiari P, Gerosa G. *A sterilization method for decellularized xenogeneic cardiovascular scaffolds*. *Acta Biomater*. 2018; 67:282-294.
3. Tosoni S, Tarzia V, Colli A, Gerosa G, **Bagno A**. *Phonographic detection of mechanical heart valve thrombosis*. *J Artif Organs*. 2017; 20(4):394-398.
4. D'Onofrio A, Antonello M, Lachat M, Planer D, Manfrin A, **Bagno A**, Pakeliani D, Grego F, Gerosa G. *Endovascular treatment of aortic arch aneurysm with a single-branched double-stage stent graft*. *J Thorac Cardiovasc Surg*. 2017; 12(1):015021.
5. Aguiari P, Iop L, Favaretto F, Fidalgo CM, Naso F, Milan G, Vindigni V, Spina M, Bassetto F, **Bagno A**, Vettor R, Gerosa G. *In vitro comparative assessment of decellularized bovine pericardial patches and commercial bioprosthetic heart valves*. *Biomed Mater*. 2017; 12(1):015021.
6. Stocco E, Barbon S, Radossi P, Rajendran S, Dalzoppo D, Borlomini M, **Bagno A**, Grandi F, Gamba PG, Parnigotto PP, Tagariello G, Grandi C. *Autologous chondrocytes as a novel source for neochondrogenesis in haemophiliacs*. *Cell Tissue Res*. 2016; 366(1):51-61.
7. Tarzia V, Guariento A, Bagozzi L, **Bagno A**, Bottio T, Gerosa G. *Prosthetic valve thrombosis: When prevention is better than treatment*. *Am Heart J*. 2016; 174:e1-2.
8. **Bagno A**, Martini R. *Wavelet transform analysis of skin perfusion during thermal stimulation*, *Clin Hemorheol Microcirc*. 2016; 64(2):167-175.
9. Aguiari P, Fiorese M, Iop L, Gerosa G, **Bagno A**. *Mechanical testing of pericardium for manufacturing of prosthetic heart valves*. *Interact Cardiovasc Thorac Surg*. 2016; 22(1):72-84.
10. **Bagno A**, Popa SO, Ferrari, M, Andreozzi GM, Martini R. *Wavelet analysis of skin perfusion to assess the effects of FREMS therapy before and after occlusive reactive hyperemia*. *Med Eng Phys*. 2015; 37(11):1111-5.
11. Ticcinelli V, Martini R, **Bagno A**. *Preliminary study of Laser Doppler perfusion signal by wavelet transform in patients with critical limb ischemia before and after revascularization*. *Clin Hemorheol Microcirc*. 2014; 58(3):415-28.
12. Martini R, Ticcinelli V, **Bagno A**. *Changes of the cutaneous flowmotion pattern after limb revascularization in patient with critical ischemia*. *Clin Hemorheol Microcirc*. 2014; 56(4):347-58.
13. Melan G, Bellato A, Susin FM, Bottio T, Tarzia V, Pengo V, Gerosa G, **Bagno A**. *Ultrasound phonocardiography for detecting thrombotic formations on bileaflet mechanical heart valves*. *J Heart Valve Dis*. 2013; 22:828-836.
14. Brun P, Scorzeto M, Vassanelli S, Castagliuolo I, Palù G, Ghezzi F, Messina GM, Iucci G, Battaglia V, Sivoilella S, **Bagno A**, Polzonetti G, Marletta G, Dettin M. *Mechanisms underlying the attachment and spreading of*

- human osteoblasts: From transient interactions to focal adhesions on vitronectin-grafted bioactive surfaces.* Acta Biomater. 2013; 9(4), 6105-15.
15. Barca F, Saracino A, Venturini M, Facchini A, **Bagno A.** *Resorbable Materials In Hallux Valgus Treatment.* Journal of Orthopaedics and Traumatology. 2012; 13(Suppl.1): 106.
 16. **Bagno A,** Dettin M, Santoro G. *Characterization of Ti and Ti6Al4V Surfaces After Mechanical and Chemical Treatments: A Rational Approach to the Design of Biomedical Devices.* J Biotechnol Biomater, 2012; 1-7, 2(7).
 17. **Bagno A,** Licciardello C, Tarzia V, Bottio T, Pengo V, Gerosa G. *Development of Artificial Neural Networks based algorithms for the classification of bileaflet mechanical heart valve sounds.* Int J Artificial Organs. 2012; 35(4):279-287.
 18. Susin FM, Tarzia V, Bottio T, Pengo V, **Bagno A,** Gerosa G. *In vitro detection of thrombotic formation on bileaflet mechanical heart valves.* J Heart Valve Dis. 2011; 20, 378-386.
 19. Romata C, Susin FM, Cambi A, Tarzia V, Pengo V, Gerosa G, **Bagno A.** *Comparative classification of thrombotic formations on bileaflet mechanical heart valves by phonographic analysis.* J Artif Organs. 2011; 14, 100-111.
 20. Brun P, Ghezzi F, Roso M, Danesin R, Palù G, **Bagno A,** Modesti M, Castagliuolo I, Dettin M. *Electrospun scaffolds of self-assembling peptides with poly(ethylene oxide) for bone tissue engineering.* Acta Biomaterialia. 2011; 7(6);2526-32.
 21. Gandaglia A, **Bagno A,** Naso F, Spina M, Gerosa G. *Cells, scaffolds and bioreactors for tissue engineered heart valves: a journey from basic concepts to contemporary developmental innovation.* Eur J Cardio-Thorac Surgery. 2011; 39, 523-531.
 22. Susin FM, **Bagno A,** Gerosa G. *Hydrodynamic performance of heart valve prostheses: open discussion on EN ISO 5840.* J Thorac Cardiovasc Surg. 2010; 139:1356-1357.
 23. Bottio T, Tarzia V, Susin FM, Buselli R, Cambi A, Pengo V, Gerosa G, **Bagno A.** *Bileaflet Mechanical Heart Valves Thrombosis: In vitro Detection by Artificial Neural Networks.* Cardiology. 2010; 115, 255.
 24. **Bagno A,** Anzil F, Buselli R, Pesavento E, Tarzia V, Pengo V, Bottio T, Gerosa G. *Bileaflet mechanical heart valves closing sound: in vitro classification by phonographic analysis.* J Artif Organs. 2009; 12, 172–181.
 25. **Bagno A,** Anzil F, Tarzia V, Pengo V, Ruggeri A, Gerosa G. *Application of wavelet analysis to the phonocardiographic signal of mechanical heart valve closing sounds.* Int J Artificial Organs. 2009; 32(3), 166-172.
 26. **Bagno A,** Anzil F, Buselli R, Tarzia V, Pengo V, Bottio T, Gerosa G. *Is the analysis over the time domain or over the frequency domain significant for the detection of mechanical bileaflet heart valve dysfunction?.* Ann Thorac Surg. 2009; 87, 986-7.
 27. Cacchioli A, Ravanetti F, **Bagno A,** Dettin M, Gabbi C. *Human Vitronectin-Derived Peptide Covalently Grafted onto Titanium Surface Improves Osteogenic Activity: A Pilot In Vivo Study on Rabbits.* Tissue Engineering Part A. 2009; 15(10), 2917-26.

28. Dettin M, Herath T, Gambaretto R, Iucci G, Battocchio C, **Bagno A**, Ghezzi F, Di Bello C, Polzonetti G, Di Silvio L. *Assessment of novel chemical strategies for covalent attachment of adhesive peptides to rough titanium surfaces: XPS analysis and biological evaluation*. J. Biomedical Material Research A, 2009; 91(2), 463-79.
29. Dettin M, **Bagno A**, Gambaretto R, Iucci G, Conconi MT, Menti AM, Grandi C, Di Bello C, Polzonetti G. *Covalent surface modification of titanium oxide with different adhesive peptides: surface characterization and osteoblast-like cell adhesion*. J. Biomedical Material Research A. 2009; 90(1), 35-45.
30. **Bagno A**, Piovan A, Dettin M, Brun P, Gambaretto R, Di Bello C, Palù G, Castagliuolo I. *Improvement of Anselme's adhesion model for evaluating human osteoblast response to peptide-grafted titanium surfaces*. Bone. 2007; 41/4, 704-712.
31. **Bagno A**, Piovan A, Dettin M, Chiarion A, Brun P, Gambaretto R, Fontana G, Di Bello C, Palù G, Castagliuolo I. *Human osteoblast-like cell adhesion on titanium substrates covalently functionalized with synthetic peptides*. Bone. 2007; 40, 693-699.
32. Dettin M, **Bagno A**, Morpurgo M, Cacchioli A, Conconi MT, Di Bello C, Gabbi C, Gambaretto R, Parnigotto PP, Pizzinato S, Ravanetti F, Guglielmi M. *Evaluation of SiO₂-based coating enriched with bioactive peptides mapped on human vitronectin and fibronectin: in vitro and in vivo assays*. Tissue Engineering. 2006; 12, 3509-3523.
33. Finezzo ML, Dal Zoppo D, Di Liddo R, Dettin M, **Bagno A**, Morpurgo M, Schiavon O, Grandi C. *Molecular basis of angiogenin: applications in tissue engineering*. Cytotherapy. 2006; 8, 47-47.
34. Dettin M, Conconi MT, Gambaretto R, **Bagno A**, Di Bello C, Menti AM, Grandi C, Parnigotto PP. *Effect of synthetic peptides on osteoblast adhesion*. Biomaterials. 2005; 26, 4507-4515.
35. **Bagno A**, Di Bello C. *Surface treatments and roughness properties of Ti-based biomaterials*. Journal of Materials Science: Materials in Medicine. 2004; 15, 935-949.
36. **Bagno A**, Genovese M, Luchini A, Dettin M, Conconi MT, Menti AM, Parnigotto PP, Di Bello C. *Contact profilometry and correspondence analysis to correlate surface properties and cell adhesion in vitro of uncoated and coated Ti and Ti6Al4V disks*. Biomaterials 2004; 25, 2437-2445.
37. **Bagno A**, Dettin M, Gambaretto R, Tonin L, Di Bello C. *Strategy to enhance the osseo-integration process: synthetic peptides improving osteoblast adhesion on implant surface*. Acta of Bioengineering and Biomechanics. 2003; 5 (1), 35-42.
38. Bicciato S, **Bagno A**, Soldà M, Di Bello C, Manfredini R. *Fermentation Diagnosis by Multivariate Statistical Analysis*. Applied Biochemistry and Biotechnology. 2002; 102-103, 49-62.
39. Natali AN, Pavan, PG, Schileo E, Dettin M, **Bagno A**, Di Bello C. *Dental implant osseo-integration: a coupled biochemical and biomechanical approach*. Acta of Bioengineering and Biomechanics. 2002; 4(1), 817-818.
40. **Bagno A**, Bicciato S, Di Bello C, Bonora GM. *Automation of the Liquid-Phase Synthesis of Biopolymers*. Journal of Chemical Technology and Biotechnology. 1998; 71, 77-83.
41. **Bagno A**, Bicciato S, Dettin M, Di Bello C. *A Novel Algorithm for the Coupling Control in Solid Phase Peptide Synthesis*. Journal of Peptide Research. 1997; 50, 231-237.

42. Dettin M, Pegoraro S, Rovero P, Bicciato S, **Bagno A**, Di Bello C. *SPPS of Difficult Sequences: a Comparison of Chemical Conditions, Synthetic Strategies and On-line Monitoring*. Journal of Peptide Research. 1997; 49, 103-111.
43. Bicciato S, **Bagno A**, Buso O, Dettin M, Di Bello C. *An Improved System for Automated Peptides Synthesis*. Chemical Engineering and Technology. 1995; 18, 210-215.
44. **Bagno A**, Bicciato S, Buso O, Di Bello C, Biancotto G, Maffini M, Scremin CL, Bonora GM. *A Batch-Type System for Large-Scale Solid-Phase Oligonucleotide Synthesis*. Chemical and Biochemical Engineering Quarterly. 1994; 8(4), 183-188.
45. **Bagno A**, Bicciato S, Buso O, Dettin M, Di Bello C. *Development of a Prototype for the Automated Solid-Phase Synthesis of Peptides*. Chemical and Biochemical Engineering Quarterly. 1993; 7(4) 209-214.

CHAPTERS

46. Di Bello C, **Bagno A**, Dettin M. *Automation of Peptide Synthesis*, in A.B. Hughes (Ed.), Amino Acids, Peptides and Proteins in Organic Chemistry, pp. 495-517, Wiley-VCH, Weinheim, Germany, 2011.
47. **Bagno A**, Dettin M, Mela N, Cacchioli A, Morpurgo M, Guglielmi M, Gabbi C, Di Bello C. *In vitro and in vivo evaluation of SiO₂-based coating enriched with a bioactive peptide*, in "In Ravaglioli A., Krajewski A. (Eds.) Materials for tissue engineering, pp. 72-81, CNR, Roma, ITALY, 2005.
48. Di Bello C, Dettin M, **Bagno A**. *Funzionalizzazione di superfici mediante peptidi*, in A. Cigagda, R. Contro, Di Bello C, M.C. Tanzi, Biomateriali: dagli impianti protesici alla medicina rigenerativa, pp. 175-191, Patron editore, Bologna, Italia, 2005.
49. **Bagno A**, Bonollo F, Dettin M, Tiziani A, Di Bello C. *Ti and Ti6Al4V surfaces treated to promote osteoblast adhesion*, in "In Ravaglioli A., Krajewski A. (Eds.) Bioceramic surfaces: behaviour in vitro and in vivo, pp. 113-121, CNR, Roma, ITALY, 2003.
50. **Bagno A**, Bicciato S, Dettin M, Di Bello C. *Automation and control of solid-phase peptide synthesis: methods and technology*, in "Recent research development in peptides", vol. 1 (2002), pp.65-77, Research Signpost Publisher, Trivandrum, India, 2002.
51. Di Bello C, **Bagno A**, Dettin M, Simonetti M. *Biomateriali e segnali molecolari*, in R. Cancedda e R. Pietrabissa, Ingegneria dei tessuti biologici, pp. 27-44, Patron editore, Bologna, Italia, 2002.
52. Bicciato S, **Bagno A**, Dettin M, Di Bello C. *Application of Statistical Process Control to Solid Phase Synthesis of Peptides*, in R. Epton, Innovation and Perspectives in Solid Phase Synthesis - 1999, pp. 177-180, Mayflower Scientific, Birmingham, 2001.
53. **Bagno A**, Bicciato S, Di Bello C, Bonora GM. *Automated Liquid-phase Biopolymers Synthesis*, in R. Epton, Innovation and Perspectives in Solid Phase Synthesis - 1998, pp. 51-54, Mayflower Scientific, Birmingham, 1999.
54. Bicciato S, **Bagno A**, Dettin M, Buso O, Di Bello C. *A Novel Prototype for the Automated Synthesis of Peptides*, in R. Epton, Innovation and Perspectives in Solid Phase Synthesis - 1994, pp. 447-450, Mayflower Scientific, Birmingham, 1994.

55. Di Bello C, Dettin M, Tormene S, Roncon R, **Bagno A**, Bicciato S. *Conformational Studies on Synthetic Peptides from the Principal Neutralizing Domain of HIV-1 gp120 that Bind to CD4 and Enhance Viral Infectivity*, in *Peptides 1993*, pp- 95-97, ESCOM, Leiden, 1993.

MONOGRAPHS

56. Di Bello C, **Bagno A**. *Biomateriali (2° edizione): dalla scienza dei materiali alle applicazioni cliniche*, Patron editore, Bologna, Italia, 2016.
57. Di Bello C, **Bagno A**. *Interazioni tra biomateriali e tessuti*, Patron editore, Bologna, Italia, 2009.
58. **Bagno A**. *Tecnologie Biochimiche Industriali*, dispense dal corso del Prof. Carlo Di Bello, Libreria Progetto, Padova, Italia, 1996.

PROCEEDINGS

59. **Bagno A**, Martini R. Wavelet analysis in PAOD. Congress of the European Society for Vascular Medicine, 8 - 10 May, Rome, Italy 2016.
60. Aguiari P, Iop L, Tuladhar SR, Lourenco Fidalgo CM, Naso F, Favaretto F, Milan G, Spina M, Vettor R, **Bagno A**, Gerosa G. A New Pericardial Decellularized Scaffold for the Manufacturing of Cardiovascular Substitutes, TERMIS World Congress, 8–11 September, Boston, Massachusetts, 2015.
61. **Bagno A**, Martini R. Wavelet analysis of the Laser Doppler signal to assess skin perfusion, 37th Annual International Conference of IEEE Engineering in Medicine and Biology Society, 25 – 29 August, Milan, Italy, 2015.
62. Ferrari M, Martini R, **Bagno A**. *Wavelet analysis of skin perfusion signals to evaluate the effect of FREMS therapy on post occlusive reactive hyperaemia*, Congresso Nazionale di Bioingegneria, 25-27 June, Pavia, Italy, 2014.
63. Ferrari M, Martini R, **Bagno A**. *Spectral Analysis of the Laser Doppler Perfusion Signal in Patients with Critical Limb Ischemia after Limb Revascularization*, 8th Conference of the European Study Group on Cardiovascular Oscillations - ESGCO 2014, May 25-28, Trento, Italy, 2014.
64. **Bagno A**. *Adattamenti microcircolatori dopo rivascolarizzazione degli arti inferiori*, V Congresso Nazionale Della Società Italiana di Emoreologia Clinica e Microcircolazione, 24-26 Ottobre, Padova, Italia, 2013 (su invito).
65. Lodi S, **Bagno A**, Martini R. *Studio preliminare per la quantificazione della stimolazione FREMS su pazienti arteriopatici*, V Congresso Nazionale Della Società Italiana di Emoreologia Clinica e Microcircolazione, 24-26 Ottobre, Padova, Italia, 2013.
66. Melan G, Bellato A, Susin FM, Bottio T, Tarzia V, Pengo V, Gerosa G, **Bagno A**. *In vitro investigations on prosthetic valve thrombosis by ultrasound phonocardiography*. Joint Meeting Society for Heart Valve Disease – Heart Valve Society of America, June 22-25, Venezia, Italy, 2013.
67. Aguiari P, Gastaldello A, Minio E, Bellato M, Spina M, Gerosa G, **Bagno A**. *Mechanical characterization of decellularized bovine pericardium for heart valves production*. Terzo Congresso Nazionale di Bioingegneria, 26-29 June, Rome, Italy, 2012.

68. Ticcinelli V, **Bagno A**, R. Martini. Wavelet analysis of the Laser Doppler perfusion signal in patients with peripheral arterial disease before and after revascularisation. Terzo Congresso Nazionale di Bioingegneria, 26-29 June, Rome, Italy, 2012.
69. Dettin M, Bagno A. *Messaggi biochimici all'interfaccia tessuto-impianto*. Workshop progetto Giacobbe 8° edizione, 18 May, Bologna, Italy, 2012,
70. Gastaldello A, Aguiari P, Manzan E, Gandaglia A, **Bagno A**, Gerosa G, Spina M. *Physical and structural characterization of bovine and porcine pericardia before and after TRITDOC decellularization protocol: Evaluation of biomaterials for tissue engineering of heart valves*, XXXI Convegno Nazionale SISC (Società Italiana per lo Studio del Connettivo), Ottobre 27-28, Varese, Italy, 2011
71. **Bagno A**. *Biomaterials: from articular prostheses in orthopaedics to resorbable scaffolds for tissue engineering applications*, XXXI Convegno Nazionale SISC (Società Italiana per lo Studio del Connettivo), Ottobre 27-28, Varese, Italy, 2011
72. Gagliano O, Romata C, Susin FM, Tarzia V, Pengo V, Bottio T, Gerosa G, **Bagno A**. *Ultrasound Phonocardiography for the Functional Assessment of Mechanical Heart Valves*, Joint Meeting Society for Heart Valve Disease – Heart Valve Society of America, June 25-28, Barcelona, Spain, 2011.
73. Romata C, Gagliano O, Susin FM, Tarzia V, Pengo V, Bottio T, Gerosa G, **Bagno A**. *Phonographic Analysis for Detecting Thrombotic Formations in MHVs Recipients*, Joint Meeting Society for Heart Valve Disease – Heart Valve Society of America, June 25-28, Barcelona, Spain, 2011
74. **Bagno A**, Cambi A, Bottio T, Tarzia V, Pengo V, Gerosa G, Susin FM. *In vitro classification of thrombotic deposits on a bileaflet mechanical heart valve by artificial neural network*. Secondo Congresso Nazionale di Bioingegneria, 8-10 July, Torino, Italy, 2010.
75. Tarzia V, Bottio T, Buratto E, Pengo V, Cambi A, Susin FM, **Bagno A**, Gerosa G. *Neural Networks: a novel method for early detection of mechanical heart valve thrombosis*. 24th EACTS Annual Meeting, September 11-15, Geneva, Switzerland, 2010.
76. Tarzia V, Susin FM, Buselli R, Cambi A, Bottio T, Pengo V, Gerosa G, **Bagno A**. *Bileaflet mechanical heart valves thrombosis: in vitro detection by artificial neural networks*. Valves in the Heart of the Big Apple VI, April 15-17, New York City, USA, 2010.
77. Licciardello C, Tarzia V, Bottio T, Pengo V, Gerosa G, **Bagno A**. *Phonocardiographic Classification of Mechanical Heart Valves Using Artificial Neural*. O. Dössel and W.C. Schlegel (Eds.): WC 2009, IFMBE Proceedings 25/VII, pp. 110–113, 2009.
78. Tarzia V, Licciardello C, Pesavento E, **Bagno A**, Bottio T, Pengo V, Gerosa G. *Mechanical heart valves classification by Artificial Neural Network*, Society for Heart Valve Disease - 5th Biennial Meeting, June 27-30, Berlin, Germany, 2009.
79. Gallo P, **Bagno A**, Gerosa G, Naso F, Gandaglia A, Spina M. *The structural organization of aortic and pulmonary heart valves: impact of cell and collagen removal*. XXIVth Latinorum Investigatorum Arteris Colloquium congress , 8-11 October, Reims, France, 2008.

80. Gandaglia A, **Bagno A**, Gerosa G. *Novel designed bioreactor for Tissue-Engineered Heart Valves (TEHVs)*. 11 Biennial Meeting of the International Society for Applied Cardiovascular Biology, 17-20 September, Bordeaux, France, 2008.
81. **Bagno A**, Buselli R, Anzil F, Tarzia V, Pengo V, Ruggeri A, Bottio T, Gerosa G. *In vitro characterization of bileaflet mechanical heart valves closing sound*. 35th annual Computers in Cardiology Conference, 14-17 September, Bologna, Italy 2008.
82. Cacchioli A, Ravanetti F, Martini FM, **Bagno A**, Gabbi C. *Studio istomorfometrico dell'attività osteogenica indotta dalla funzionalizzazione del titanio con il peptide HVP(351-359)*, Congresso Nazionale Biomateriali, Settembre 17-19, Follonica, Italia, 2008.
83. Gandaglia A, **Bagno A**, Di Bello C, Gerosa G. *Design of a Novel Bioreactor for Tissue-Engineered Heart Valves (TEHVs)*. Primo Congresso Nazionale di Bioingegneria, 3-5 July, Pisa, Italy, 2008.
84. **Bagno A**, Dettin M, Santoro G, Di Bello C. *Morphological characterization of Ti and Ti6Al4V surfaces after mechanical and chemical treatments: a rational approach to the design of implantable devices*. Primo Congresso Nazionale di Bioingegneria, 3-5 July, Pisa, Italy, 2008.
85. Ravanetti F, Cacchioli A, Spaggian B, Borghetti P, De Angelis E, **Bagno A**, Gabbi C. *In vivo study of the effect of human Vitronectin peptide on bone ongrowth on Titanium alloy implants*, 20th European Conference on Biomaterials, September 27 – October 1, Nantes, France, 2006.
86. **Bagno A**, Dettin M, Piovan A, Brun P, Gambaretto R, Fontana G, Di Bello C, Palù G, Castagliuolo I. *Evaluation of human osteoblast-like cell adhesion strength on Ti substrates functionalized by bioactive peptide grafting*, 5th World Congress of Biomechanics, July 29 - August 4, Munich, Germany, 2006.
87. Dettin M, **Bagno A**, Gambaretto R, Iucci G, Conconi MT, Tucitto N, Menti AM, Licciardello A, Polzonetti G, Parnigotto PP, Di Bello C. *Evaluation of osteoblast adhesion on biomimetic Ti surfaces: comparison among different strategies for the immobilization of peptides*, Ceramics Cells and Tissues – 10th Annual Seminar and Meeting, May 23 – 27, Faenza, Italy, 2006.
88. **Bagno A**, Dettin M, Mela N, Cacchioli A, Morpurgo M, Guglielmi M, Gabbi C, Di Bello C. *In vitro and in vivo evaluation of SiO₂-based coating enriched with a bioactive peptide*, Ceramics Cells and Tissues – 9th Annual Seminar and Meeting, September 28 – October 1, Faenza, Italy, 2004.
89. Di Bello C, Morpurgo M, Gambaretto R, Pizzinato S, **Bagno A**, Menti AM, Conconi MT, Parnigotto PP, Guglielmi M, Dettin M. *Design And Evaluation Of Sol-gel Peptide-enriched Dressing For Improving Osteoblast Adhesion To Ti Surfaces*, 7th World Biomaterials Congress, May 17-21, Sidney, Australia, 2004.
90. Bonollo F, **Bagno A**, Dettin M, Genovese M, Di Bello C, Tiziani A. *Characterization of Ti and Ti6Al4V surfaces mechanically and chemically treated to promote osteoblast adhesion*, Ceramics Cells and Tissues – 8th Annual Seminar and Meeting, March 18-21, Faenza, Italy, 2003.
91. Dettin M, **Bagno A**, Gambaretto R, Genovese M, Conconi MT, Parnigotto PP, Di Bello C. *Evaluation of osteoblast adhesion on Ti and Ti6Al4V surfaces promoted by peptide-enriched poly(L-lactide) dressing*, Ceramics Cells and Tissues – 8th Annual Seminar and Meeting, March 18-21, Faenza, Italy, 2003.

92. **Bagno A**, Bicciato S, Di Bello C, Casagrande G, Manfredini R. *Cephalosporin C Production: an Optimized Approach*, International Conference on New Horizons in Biotechnology (NHBT 2001), April 18–21, Trivandrum, India, 2001.
93. **Bagno A**, Bicciato S, Di Bello C, Bedendo A. *An Innovative Apparatus for Water Analysis*, International Conference on New Horizons in Biotechnology (NHBT 2001), April 18–21, Trivandrum, India, 2001.
94. **Bagno A**, Bicciato S, Di Bello C, Casagrande G, Manfredini R. *Optimization of Cephalosporin C Production by Cephalosporium acremonium methionine-resistant strain*, European Symposium on Biochemical Engineering Science ESBE-3, September 10-13, Copenhagen, Denmark, 2000.
95. Bicciato S, **Bagno A**, Di Bello C, Pandin M, Didonè G. *Extracting Dynamic Patterns from Gene Expression Data by the Analysis of an Autoassociative Neural Network Architecture*, European Symposium on Biochemical Engineering Science ESBE-3, September 10-13, Copenhagen, Denmark, 2000.
96. Bicciato S, Kamimura RT, **Bagno A**, Stephanopoulos GN, Di Bello C. *Mining Genomic Expression Data*, SIB "From Biotechnology to Bioindustry", April 28-30, Como, Italy, 1999.
97. **Bagno A**, Bicciato S, Di Bello C. *Automated Biopolymer Synthesis*, Bioprocess Engineering Course - European Federation of Biotechnology, September 27–October 2, Supetar, Island of Brac, Croatia, 1998.
98. **Bagno A**, Bicciato S, Di Bello C. *Coupling Control in Solid Phase Peptide Synthesis Using an Artificial Neural Network*, ECCE-1 The First European Congress on Chemical Engineering, May 4-7, Florence, Italy, 1997.
99. Cuomo V, **Bagno A**, Bicciato S, Di Bello C, Salvato B. *Semi-automatic Detection of the Reaction Between Hemocyanin and Oxygen*, XIII Congresso della Società Italiana di Biofisica Pura ed Applicata, Settembre 8-12, Padova, Italia, 1996.
100. Bicciato S, **Bagno A**, Dettin M, Di Bello C. *Deprotection Monitoring in SPPS: Conductimetric Versus Spectrophotometric Techniques*, 6th International Conference on Computer Applications in Biotechnology - CAB 6, May 14-17, Garmish, Germany, 1995.
101. Bicciato S, **Bagno A**, Dettin M, Di Bello C. *Monitoring the Key Steps of the Solid Phase Peptide Synthesis Process* ICheP 2 - The Second Italian Conference on Chemical and Process Engineering", May 15-17, Firenze, Italy, 1995.
102. Bicciato S, **Bagno A**, Dettin M, Di Bello C. *Tecniche per il Monitoraggio delle Reazioni di Deprotezione e di Condensazione nella Sintesi di Peptidi in Fase Solida*, 3° Convegno Nazionale di Chimica dei Sistemi Biologici, Gennaio 25-27, Bologna, Italia, 1995.
103. Bicciato S, **Bagno A**, C Di Bello. *In-line Monitoring of the Key Reactions in Automated Solid-Phase Peptide Synthesis*, AIChE Annual Meeting, November 12-17, Miami Beach, FL, USA, 1995.
104. **Bagno A**, Bicciato S, Buso O, Di Bello C. *Automated Techniques for Biotechnology*, Università ed Innovazione Tecnologica - Consorzio Interuniversitario Biotecnologie, June 20-21, Brescia, Italia, 1994.
105. Pegoraro S, Viganò S, Rovero P, Revoltella R, Bicciato S, **Bagno A**, Dettin M, Di Bello C. *SPPS of Difficult Sequences: A Comparison of Chemical Conditions, Synthetic Strategies and On-line Monitoring*, Peptides 23rd European Peptide Symposium, September 4-11, Braga, Portugal, 1994.

106. Di Bello C, **Bagno A**, Bonora GM, Scremin CL. *Large Scale Automated Biopolymers Synthesis*, Greek-Italian Meeting on Chemistry of Biological Systems and Molecular Chemical Engineering, June 11-13, Loutraki, Greece, 1990.

PATENTS

107. Dettin M, **Bagno A**, Gambaretto R, Di Bello C, Conconi MT, Parnigotto PP. *Peptides from Vitronectin and their therapeutic exploitation for osteoblast adhesion*, PCT/IT2005/000132, 2005.
108. Dettin M, **Bagno A**, Gambaretto R, Di Bello C, Conconi MT, Parnigotto PP. *Peptidi della vitronectina e loro impiego terapeutico nella adesione degli osteoblasti*, Italian patent n° PD 2004 A 000065, 2004.
109. Bicciato S, **Bagno A**, Dettin M, Pandin M, Di Bello C. *A Method for the Final Yield Prediction and for the Automatic Control of Solid Phase Peptide Synthesis*, Italian patent n° MI96A000966, 1996
110. **Bagno A**, Bicciato S, Dal Bosco M, Bonora GM, Di Bello C. *Apparatus and Process for the Liquid Phase Oligonucleotide Synthesis*, Italian patent n° MI96A001301, 1996.