

## Publications

### Articles

#### 2004

1. S.Altieri, A.Braghieri, S.Bortolussi, P.Bruschi, F.Fossati, P.Pedroni, T.Pinelli, A.Zonta, C.Ferrari, U.Prati, L.Roveda, S.Barni, P.Chiari, R.Nano, "Neutron radiography of human liver metastases after BPA infusion", Proceedings of 11th World congress on Neutron Capture Therapy, October 11-15 2004, Boston, USA.

#### 2006

2. S.Altieri and S.Bortolussi, "Application of Neutron Capture Therapy to Widespread Tumours", in *Ricerca Scientifica ed Educazione Permanente: 11<sup>th</sup> International Conference on Nuclear Reaction Mechanisms*, vol 126 pp 601-608, Milano 2006.
3. S.Altieri, S.Bortolussi, P.Bruschi, F.Fossati, K.Vittor, R.Nano, A.Facoetti, P.Chiari, J.Bakeine, A.Clerici, C.Ferrari, O.Salvucci, "Boron absorption imaging in rat lung colon adenocarcinoma metastases" *J.of Phys, Conf Series*, 41, 123-126, 2006.
4. A.Zonta, U.Prati, L.Roveda, C.Ferrari, S.Zonta, A.M.Clerici, C.Zonta, P.Bruschi, R.Nano, S.Barni, T.Pinelli, F.Fossati, S.Altieri, S.Bortolussi, P.Chiari and G.Mazzini, "Clinical lessons from the first applications of BNCT on unresectable liver metastases", *J.of Phys, Conf Series*, 41, 484-495 2006
5. S.Bortolussi, S.Altieri, P.Bruschi, P.Chiari, F.Fossati, A.Facoetti, R.Nano, A.Clerici, C.Ferrari, A.Zonta, C.Zonta, A.Marchetti, E.Solcia, J.J.Bakeine, O.Salvucci "Boron Uptake Measurements in metastatic Tumours in Rat Lung", in Y.Nakagawa, T.Kobayashi, H.Fukuda ed., *Advances in Neutron Capture Therapy*, Proceedings of ICNCT-12, pp 91-94, Takamatsu, Japan, 9-14 October 2006.
6. S.Altieri, S.Bortolussi, P.Bruschi, P.Chiari, F.Fossati, A.Facoetti, R.Nano, A.Clerici, C.Ferrari, A.Zonta, C.Zonta, A.Marchetti, E.Solcia, J.J.Bakeine, O.Salvucci, "Monte Carlo dose calculations for BNCT treatment of diffuse human lung tumours", in Y.Nakagawa, T.Kobayashi, H.Fukuda ed., *Advances in Neutron Capture Therapy*, Proceedings of ICNCT-12, pp 500-503, Takamatsu, Japan, 9-14 October 2006.
7. G.Gambarini, S.Agosteo, S.Altieri, S.Bortolussi, M.Carrara, S.Gay, M.Mariani, C.Petrovich, G.Rosi, E.Vanossi, "Dose imaging with gel dosimeters in phantoms exposed in Reactor Thermal Columns designed for BNCT", in Y.Nakagawa, T.Kobayashi, H.Fukuda ed., *Advances in Neutron Capture Therapy*, Proceedings of ICNCT-12, pp 417-420, Takamatsu, Japan, 9-14 October 2006.
8. C.Ferrari, A.M.Clerici, G.Mazzini, C.Zonta, S.Altieri, S.Bortolussi, F.Fossati, P.Bruschi, P.Chiari, P.Dionigi, A.Zonta, "The BNCT resistant fraction of cancer cells: an *in-vitro* morphologic and Cytofluorimetric study on a rat Colonicarcinoma cell line", in Y.Nakagawa, T.Kobayashi, H.Fukuda ed., *Advances in Neutron Capture Therapy*, Proceedings of ICNCT-12, pp 98-101, Takamatsu, Japan, 9-14 October 2006.

## 2007

9. S.Bortolussi and S.Altieri, "Thermal Neutron Irradiation Field Design for Boron Neutron Capture Therapy of Human Explanted Liver " Medical Physics, December 2007 Vol. 34, Issue 12, pp. 4700-4705.
10. Silva Bortolussi, "Studio per l'applicazione della Boron Neutron Capture therapy (BNCT) al trattamento delle metastasi polmonari diffuse" Radiazioni - Ricerca e Applicazioni, Vol. X nr 3-2007, 6-8.
11. GAMBARINI G., ALTIERI SAVERIO, BORTOLUSSI S, S. AGOSTEO, M. CARRARA, S. GAY, E. NAVA, C. PETROVICH, G.ROSI, M.VALENTE (2007). Dose Distributions in Phantoms Irradiated in Thermal Columns of Two Different Nuclear Reactors. RADIATION PROTECTION DOSIMETRY, vol. 126, p. 640-644, ISSN: 0144-8420

## 2008

12. S. Altieri, S. Bortolussi, P. Bruschi, P. Chiari, F. Fossati, S. Stella, U. Prati, L. Roveda, A. Zonta, C. Zonta, C. Ferrari, A. Clerici, R. Nano, T. Pinelli, "Neutron autoradiography imaging of selective boron uptake in human metastatic tumours", Appl Rad Isot 66:1850-5, 2008
13. Luca Menichetti, Lorena Gaetano, Antonella Zampolli, Serena Del Turco, Cinzia Ferrari, Anna Maria Clerici, Silva Bortolussi, Sabrina Stella, Piero Bruschi, Piero A. Salvadori, Saverio Altieri, Luca Cionini, "In vitro neutron dosimetry of glioma and endothelial cultured cells", Proceedings of 13th International Congress on Neutron Capture Therapy, pp.350-355 ENEA. Roma, 2009.
14. C. Ferrari, A.M. Clerici, C. Zonta, L. Cansolino, A. Boninella, S. Altieri, F. Ballarini, S. Bortolussi, P. Bruschi, S. Stella, J. Bakeine, P. Dionigi, A. Zonta, "Boron Neutron Capture Therapy of Liver and Lung Colonicarcinoma Metastases: an in vitro Survival Study", Proceedings of 13th International Congress on Neutron Capture Therapy, pp.331-336 ENEA. Roma, 2008.
15. E. Pozzi, M. Gadan, S. Thorp, S. Bortolussi, M. Miller, "Testing of a gel equivalent to liver to perform neutron characterizations", Proceedings of 13th International Congress on Neutron Capture Therapy, pp.693-696, ENEA. Roma, 2008.
16. J. G. Bakeine, M. Di Salvo, S. Bortolussi, S. Stella, P. Bruschi, A. Bertolotti, R. Nano, A. Clerici, C. Ferrari, C. Zonta, A. Marchetti, S. Altieri, (2008). Feasibility study of the Utilization of Boron Neutron Capture Therapy (BNCT) in diffuse rat lung metastases. Proceedings of 13th International Congress on Neutron Capture Therapy, pp.367-370 ENEA. Roma, 2008.

## 2009

17. S. Stella, S. Bortolussi, P. Bruschi, C. Portella and S. Altieri "Measurement of  $\alpha$  particle energy loss in biological tissue below 2 MeV", Nucl. Instr. and Met., (2009) 267:2938-2943

18. A. Zonta, T. Pinelli, U. Prati, L. Roveda, C. Ferrari, A.M. Clerici, C. Zonta, G. Mazzini, P. Dionigi, S. Altieri, S. Bortolussi, P. Bruschi and F. Fossati "Extra-corporeal liver BNCT for the treatment of diffuse metastases: What was learned and what is still to be learned" *Appl. Radiat. and Isot.*, (2009), 67: 67-70
19. N. Protti, S. Bortolussi, S. Stella, M.A. Gadan, A. De Bari, F. Ballarini, P. Bruschi, C. Ferrari, A.M. Clerici, C. Zonta, J.G. Bakeine, P. Dionigi, A. Zonta and S. Altieri "Calculations of dose distributions in the lungs of a rat model irradiated in the thermal column of the TRIGA reactor in Pavia" *Appl. Radiat. Isot.* (2009), 67:210-213
20. G.J. Bakeine, M. Di Salvo, S. Bortolussi, S. Stella, P. Bruschi, A. Bertolotti, R. Nano, A. Clerici, C. Ferrari, C. Zonta, A. Marchetti and S. Altieri "Feasibility study on the utilization of boron neutron capture therapy (BNCT) in a rat model of diffuse lung metastases", *Appl. Radiat. Isot.* (2009), 67: 332-335
21. L. Menichetti, L. Gaetano, A. Zampolli, S. Del Turco, C. Ferrari, S. Bortolussi, S. Stella, S. Altieri, P.A. Salvadori and L. Cionini "In vitro neutron irradiation of glioma and endothelial cultured cells", *Appl. Rad. Isotopes*, (2009) 67:336-340
22. C. Ferrari, C. Zonta, L. Cansolino, A.M. Clerici, A. Gaspari, S. Altieri, S. Bortolussi, S. Stella, P. Bruschi, P. Dionigi and A. Zonta "Selective uptake of p-boronophenylalanine by osteosarcoma cells for boron neutron capture therapy" *Appl. Rad. Isot.*, (2009) 67:341-344
23. S. Altieri, M. Balzi, S. Bortolussi, P. Bruschi, L. Ciani, A.M. Clerici, P. Faraoni, C. Ferrari, M.A. Gadan, L. Panza, D. Pietrangeli, G. Ricciardi, S. Ristori, "Carborane derivatives loaded into liposomes as efficient delivery systems for Boron Neutron Capture Therapy" *J. Med. Chem.*, (2009) 52, 7829
24. S. Agosteo, A. Fazzi, G. D'Angelo, M. V. Introini, A. Pola, C. Pirovano, V. Varoli, S. Altieri, S. Stella, S. Bortolussi, P. Bruschi, "Feasibility Study of a Monolithic Silicon Telescope for BNCT Applications", *Nuclear Technology*, (2009) 168(1), 11-16,

## 2010

25. Ballarini, J. Bakeine, S. Bortolussi, P. Bruschi, A.M. Clerici, A. De Bari, P. Dionigi, C. Ferrari, M.A. Gadan, N. Protti, S. Stella, C. Zonta, A. Zonta and S. Altieri. "Nuclear Physics meets Medicine and Biology: Boron Neutron Capture Therapy". *Proc. 12th International conference on nuclear reaction mechanisms*, Varenna, Italy, June 15-19, 2009, Edited by Francesco Cerutti and Alfredo Ferrari. Vol. 2, pp. 561-571, CERN, Geneva, 2010
26. F. Ballarini, S. Bortolussi, A.M. Clerici, C. Ferrari, N. Protti, S. Altieri, "From radiation-induced chromosome damage to cell death: modelling basic mechanisms and applications to Boron Neutron Capture Therapy, *Rad. Prot. Dos.* 2010, 143 (2-4) 523-527

27. L.Ciani, S.Bortolussi, S.Altieri, S.Ristori, C.Ferrari, A.Zonta, P.Baglioni, G.Martini  
"La Boron Neutron Capture Therapy: ricerca e applicazione clinica. I" *Chimica e  
Industria*, Aprile 2010, pagg. 83-87
28. S.Bortolussi, L.Ciani, S.Altieri, S.Ristori, C.Ferrari, A.Zonta, P.Baglioni, G.Martini  
"La Boron Neutron Capture Therapy: ricerca e applicazione clinica. II" *Chimica e  
Industria*, Maggio 2010, pagg. 83-77
- 29A.Cappelli, S.Valenti, A.Mancini, G.Giuliani, M.Anzini, S.Altieri, S.Bortolussi,  
C.Ferrari, A.M.Clerici, C.Zonta, F.Carraro, I.Filippi, G.Giorgi, A.Donati,  
S.Ristori, S.Vomero, A.Concas, and G.Biggio "Carborane-Conjugated 2-  
Quinolinecarboxamide Ligands of the Translocator Protein for Boron Neutron  
Capture Therapy", *Bioconj. Chem.* 2010, 21 (12), pp 2213–2221
30. C. Ferrari, A.M. Clerici, C. Zonta, L. Cansolino, A. Boninella, J. Bakeine, G. Mazzini,  
S. Altieri, F. Ballarini, S. Bortolussi, N. Protti, S. Stella, P. Bruschi, P. Dionigi,  
A. Zonta, "Recurrences Following BNCT: a Characterization Study of the "in  
vitro" BNCT Refractory Cell Fraction", *Proceedings of ICNCT-14, Buenos Aires,  
Argentina, 25-29 October 2010*, pp 55-58
31. S. Bortolussi, S. Altieri, N. Protti, S. Stella, F. Ballarini, P. Bruschi, M.A. Gadan, S.  
I. Thorp, M. Miller, E. C.C. Pozzi, V. A. Trivillin, M. A. Garabalino, A.J. Molinari,  
A. Monti Hughes, E.M. Heber, M. E. Itoiz, R.F. Aromando, D.W. Nigg, A. E.  
Schwint, "<sup>10</sup>B measurement by alpha spectrometry and <sup>10</sup>B imaging by neutron  
autoradiography as a contribution to the understanding of BNCT radiobiology  
in oral cancer and liver metastases animal models" *Proceedings of ICNCT-14,  
Buenos Aires, Argentina, 25-29 October 2010*, pp 59-62
32. S. Mandal, G.J. Bakeine, S. Krol, C. Ferrari, A.M. Clerici, C. Zonta, L.Cansolino,  
F. Ballarini, S. Bortolussi, S. Stella, N. Protti, P. Bruschi, S. Altieri and P. Dionigi,  
"Design, Development and Characterization of Multi-functionalized Gold  
Nanoparticles for Targeted Boron Delivery and Imaging in BNCT Applications"  
*Proceedings of ICNCT-14, Buenos Aires, Argentina, 25-29 October 2010*, pp 294-  
297

## 2011

33. S.Bortolussi, J.G.Bakeine, F.Ballarini, P.Bruschi, M.A.Gadan, N.Protti, S. Stella,  
A.Clerici, C.Ferrari, L.Cansolino, C.Zonta, A.Zonta, R.Nano and S.Altieri, "Boron  
uptake measurements in a rat model for Boron Neutron Capture Therapy of lung  
tumours", *Appl. Rad. Isot.*, 69 (2011) 394–398
34. S.Bortolussi "Boron Neutron Capture Therapy research in Pavia, Italy", *Il Nuovo  
Cimento*, Vol. 34 C, N. 1, 147-154, 2011
35. C. Ferrari, J. Bakeine, F. Ballarini, A. Boninella, S. Bortolussi, P. Bruschi, L.  
Cansolino, A.M.Clerici, P. Dionigi, N. Protti, S. Stella, A. Zonta, C. Zonta and S.  
Altieri. Experimental and theoretical studies for Boron Neutron Capture Therapy  
down to cellular level: Boron uptake/washout and cell death, *Rad. Res.*, 2011,  
vol. 175, 452-462.

36. S. Bortolussi, J.M. Pinto, S.I. Thorp, R.O. Farias, M.S. Soto, M. Szejnberg, E. C.C. Pozzi, S. Gonzalez, M.A. Gadan, A.N. Bellino, J. Quintana, S. Altieri and M. Miller, "Simulation of the neutron flux in the irradiation facility at RA-3 reactor", *Appl. Rad. Isotop.*, **69(12)**, 2011, 1924–1927
37. M.L. Szejnberg Gonçalves-Carralves, M.A. Gadan, S. Bortolussi, S.I. Thorp, and M.E. Miller, "Development of a Prompt Gamma Neutron Activation Analysis Facility for Boron-10 Concentration Measurements at RA-3: Design Stage", *Appl. Rad. Isotop.*, **69(12)**. 2011, 1928-1931
38. L. Menichetti, D. Petroni, D. Panetta, S. Burchielli, Silva Bortolussi, M. Matteucci, G. Pascali, S. Del Turco, A. Del Guerra, S. Altieri, P.A. Salvadori (2011). A micro-PET/CT approach using O-(2-[<sup>18</sup>F]fluoroethyl)-l-tyrosine in an experimental animal model of F98 glioma for BNCT. *APPLIED RADIATION AND ISOTOPES*, vol. 69, p. 1717-1720, ISSN: 0969-8043
39. Subhra Mandal, Gerald J. Bakeine, Silke Krol, Cinzia Ferrari, Anna M. Clerici, Cecilia Zonta, Laura Cansolino, Francesca Ballarini, Silva Bortolussi, Subrina Stella, Nicoletta Protti, Piero Bruschi, Saverio Altieri (2011). Design, development and characterization of multi-functionalized gold nanoparticles for biodetection and targeted boron delivery in BNCT applications. *APPLIED RADIATION AND ISOTOPES*, vol. 69, p. 1692-1697, ISSN: 0969-8043
40. M. Bonora, M. Corti, F. Borsa, S. Bortolussi, N. Protti, D. Santoro, S. Altieri, C. Zonta, A.M. Clerici, L. Cansolino, C. Ferrari, P. Dionigi, A. Marchetti, G. Zanoni, G. Vidari, "NMR study of Gd-Based Nanoparticles to Tag Boron Compounds in Boron Neutron Capture Therapy", *Appl. Rad. Isotop.*, **69(12)**. 2011, 1702-1705
41. N. Protti, F. Ballarini, S. Bortolussi, D. Santoro, S. Stella, P. Bruschi, S. Geninatti Crich, D. Alberti, S. Aime and S. Altieri, "Dose estimation in B16 tumour bearing mice for future irradiation in the thermal column of TRIGA reactor after B/Gd/ LDL adduct infusion", *Appl. Rad. Isotop.*, **69(12)**. 2011, 1842-1845
42. F. Ballarini, J. Bakeine, S. Bortolussi, P. Bruschi, L. Cansolino, A.M. Clerici, C. Ferrari, N. Protti, S. Stella, A. Zonta, C. Zonta and S. Altieri, "Cell death following BNCT: a theoretical approach based on Monte Carlo simulations", *Appl. Rad. Isotop.*, **69(12)**. 2011, 1745-1747
43. Simonetta Geninatti-Crich, Diego Alberti, Ibolya Szabo, Annamaria Deagostino, Antonio Toppino, Alessandro Barge, Francesca Ballarini, Silva Bortolussi, Piero Bruschi, Nicoletta Protti, Sabrina Stella, Saverio Altieri, Paolo Venturello, Silvio Aime, "Magnetic Resonance Imaging guided Neutron Capture Therapy by a dual Gd/B agent targeted to tumor cells via upregulated LDL transporters" *CHEMISTRY-A EUROPEAN JOURNAL*, **17(30)**, 8479–8486, 2011
44. C. Schütz, C. Brochhausen, S. Altieri, K. Bartholomew, S. Bortolussi, F. Enzmann, D. Gabel, G. Hampel, C.J. Kirkpatrick, J.V. Kratz, S. Minouchehr, H. Schmidberger, G. Otto "Boron determination in liver tissue by combining Quantitative Neutron Capture Radiography (QNCR) and histological analysis for BNCT treatment planning at the TRIGA Mainz", [Radiat Res.](#) 2011 **176(3)** 388-96.

45. Sabrina Stella, Francesca Ballarini, Silva Bortolussi, Piero Bruschi, Nicoletta Protti and Saverio Altieri, "Design of a facility for boron measurement based on prompt gamma neutron activation analysis", The front edge of BNCT development, proceedings of Young Members BNCT Meeting, Hsue, Taiwan, 3-8 December 2011, pp. 236-244
46. Nicoletta Protti, Francesca Ballarini, Silva Bortolussi, Piero Bruschi, Sabrina Stella and Saverio Altieri, "In vivo efficacy test of the BNCT treatment mediated by an Innovative dual gadolinium/boron agent", The front edge of BNCT development, proceedings of Young Members BNCT Meeting, Hsue, Taiwan, 3-8 December 2011, pp 197-203
47. Corti M, Bonora M, Borsa F, Bortolussi S, Protti N, Santoro D, Stella S, Altieri S, Zonta C, Clerici A M, Cansolino L, Ferrari C, Dionigi P, Porta A, Zanoni G, Vidari G (2011). Nuclear magnetic resonance study of Gd-based nanoparticles to tag boron compounds in boron neutron capture therapy. JOURNAL OF APPLIED PHYSICS, vol. 109, p. 302-1-302-3, ISSN: 0021-8979, doi: 10.1063/1.3556951

## 2012

48. M.A.Gadan, S.Bortolussi, I.Postuma, F. Ballarini, P.Bruschi, N.Protti, D. Santoro, S.Stella, L.Cansolino, A.Clerici, C.Ferrari, A.Zonta, C. Zonta and S.Altieri, "Set-up and calibration of a Method to Measure  $^{10}\text{B}$  Concentration in Biological Samples by Neutron Autoradiography", Nucl. Meas. Meth. B 274 (2012) 51–56

## Abstracts

49. S.Stella, S.Bortolussi, P.Bruschi, A.DeBari, J.Bakeine, U.Prati, L.Roveda, A.Zonta, C.Zonta, C.Ferrari, A.Clerici, R.Nano, S.Altieri, "Radiografia neutronica per l'imaging della distribuzione spaziale del Boro in campioni di tessuto biologico trattato con Borofenilalanina (BPA)", XIV Convegno Nazionale della Società Italiana per le Ricerche sulle Radiazioni, Radiazioni, Ricerca e Applicazioni, p.24, 2008.
50. S.Bortolussi S.Stella, P.Bruschi, R.Nano, A.Clerici, C.Ferrari, A.Zonta, C.Zonta, A.Marchetti, E.Solcia, J.J.Bakeine, and S.Altieri, "La Boron Neutron Capture Therapy dei tumori al polmone: studi preliminari", proceedings SIF 2008.
51. S. Minouchehr, G. Hampel, C. Schütz, S. Nagels, S. Altieri, S. Stella, S. Bortolussi, G. Otto "Determination of Boronophenylalanin (BPA) in healthy liver and tumour tissue of patients with liver metastasis of colorectal carcinoma", Proceedings of 13th International Congress on Neutron Capture Therapy, p.95 ENEA. Roma,2008.
52. S. Altieri, M. Balzi, S. Bortolussi, P. Bruschi, L. Ciani, A.M. Clerici, P.Faraoni, C. Ferrari, L. Panza, D. Pietrangeli, G. Ricciardi, S. Ristori, S.Stella, "Carborane derivative drugs inserted in liposome as an effective strategy for Boron Neutron

- Capture Therapy”, Proceedings of 13th International Congress on Neutron Capture Therapy, p.236 ENEA. Roma,2008.
- 53.Pola A. Agosteo S., Fazzi A., D’Angelo G., Introini M.V, Pirovano C., Varoli V., Altieri S., Stella S., Bortolussi S., Bruschi P. “Study of a Monolithic Silicon Telescope for BNCT Applications”, Proceedings of 13th International Congress on Neutron Capture Therapy, p.289 ENEA. Roma, 2008.
- 54.C. Schütz, S. Altieri, Silva Bortolussi, V. Carsí Caballer, F. Enzmann, G. Hampel, S. Minoushehr, S. Nagels, G. Otto, S. Stella, “Determination of boron in tissue using neutron-autoradiography and ICP-MS”, Proceedings of 13th International Congress on Neutron Capture Therapy, p.294 ENEA. Roma, 2008.
55. S. Altieri, S. Bortolussi, S. Stella, M. Gadan, N. Protti , A. De Bari and P. Bruschi, “Boron concentration measurement in lung tissue by charged particles spectrometry”, Proceedings of 13th International Congress on Neutron Capture Therapy, p.299 ENEA. Roma, 2008.
- 56C. Ferrari, C. Zonta, L. Cansolino, A.M. Clerici, A. Gaspari, S. Altieri,S. Bortolussi, S. Stella, P. Bruschi, P. Dionigi, A. Zonta, “Selective Uptake of P-Boronophenylalanine by Osteosarcoma Cells for Boron Neutron Capture Therapy”, Proceedings of 13th International Congress on Neutron Capture Therapy, p.371 ENEA. Roma, 2008.
- 57.N. Protti, S. Bortolussi, S. Stella, M.A. Gadan, A. De Bari, P. Bruschi, C. Ferrari, A.M. Clerici, C. Zonta, J. Bakeine, P. Dionigi, A. Zonta and S. Altieri, “Calculations of the Dose Distribution in the Lungs of a Rat Model Irradiated in the Thermal Column of the TRIGA Reactor”, Proceedings of 13th International Congress on Neutron Capture Therapy, p.721 ENEA. Roma, 2008.
- 58S.Bortolussi, F.Ballarini, M.Gadan, N.Protti, D. Santoro, S.Stella, P.Bruschi, R.Nano, A.Clerici, C.Ferrari, A.Zonta, C.Zonta, J.J.Bakeine, e S.Altieri, “Studio di Efficacia in vivo della Boron Neutron Capture Therapy applicata ai tumori polmonari diffusi”, proceedings, Bari, Congresso Nazionale SIF 2009, Book of Abstracts, p.17
- 59.F. Ballarini, J.G. Bakeine, S. Bortolussi, P. Bruschi, A.M. Clerici, C. Ferrari, M.A. Gadan, R. Nano, N. Protti, D. Santoro, S. Stella, C. Zonta, A. Zonta and S. Altieri, “Radiobiology of Boron Neutron Capture Therapy: a theoretical approach. Congresso Nazionale SIF, Bari, Settembre 2009, Book of abstracts, p 16
- 60.G. Ricciardi, A. Rosa; D. Pietrangeli, S. Ristori, A. Salvati, L. Ciani, S. Altieri, , C. Ferrari, A. M. Clerici, S. Bortolussi “Carboranyl-porphyrines for anticancer therapies” Sixth International Conference on Porphyrins and Phthalocyanines, Santa Ana Pueblo (New Mexico, USA) July 4-9, 2010
- 61.S.Stella, S.Bortolussi, N.Protti, A.Bazani, F.Ballarini, P.Bruschi and S.Altieri, “The design of a Prompt Gamma Neutron Activation Analysis Facility at Triga Mark II reactor in Pavia”, Proceedings of ICNCT-14, Buenos Aires, Argentina 25-29 October 2010, p. 569

62. M.A. Gadan, S. Bortolussi, P. Bruschi, N. Protti, S. Stella, D. Santoro, F. Ballarini, J.G. Bakeine, C. Ferrari, A.M. Clerici, L. Cansolino, C. Zonta, A. Zonta and S. Altieri, "Neutron Auto-Radiography for Boron Concentration Measurements in Liquid and Tissue Biological Samples", Proceedings of ICNCT-14, Buenos Aires, Argentina 25-29 October 2010, p. 554
63. N. Protti, F. Ballarini, S. Bortolussi, P. Bruschi, S. Stella, S. Altieri, "Biological Tests For The Boron Neutron Capture Therapy Research at the TRIGA MARK II Reactor in Pavia", European Research Reactor Conference, Rome, Italy, 20-24 March 2011, Proceedings in press
64. S. Stella, S. Bortolussi, N. Protti, A. Bazani, F. Ballarini, P. Bruschi and S. Altieri, "The design of a Prompt Gamma Neutron Activation Analysis Facility for BNCT purpose at Triga Mark II reactor in Pavia", European Research Reactor Conference, Rome, Italy, 20-24 March 2011, Proceedings in press
65. G. Hampel, C. Schütz, T. Schmitz, C. Grunewald, J.V. Kratz, C. Brochhausen, J. Kirkpatrick, S. Bortolussi, S. Altieri, P. Kudejova, K. Appelman, R. Moss, N. Bassler, M. Blaickner, P. Sharpe, H. Palmans, G. Otto "The Boron Neutron Capture Therapy (BNCT) Project at the TRIGA reactor in Mainz, Germany, European Research Reactor Conference, Rome, Italy, 20-24 March 2011, Proceedings in press
66. Markus Ziegner, Rustam Khan, Helmuth Böck, Silva Bortolussi, Saverio Altieri, Tobias Schmitz, Gabriele Hampel, Matthias Blaickner, "Radiation Transport Simulation for Boron Neutron Capture Therapy (BNCT)", European Research Reactor Conference, Rome, Italy, 20-24 March 2011, Proceedings in press
67. Silva Bortolussi, Laura Ciani, Ian Postuma, Nicoletta Protti, Piero Bruschi, Cinzia Ferrari, Laura Cansolino, Luigi Panza, Sandra Ristori and Saverio Altieri, "Boron concentration measurement by  $\alpha$  spectrometry and quantitative neutron autoradiography in cell and tissue samples treated with different boronated formulations and administration protocols" , ICNCT-15, Tsukuba, Japan, 10-14 Sept 2015
68. Laura Ciani, Silva Bortolussi, Ian Postuma, Cinzia Ferrari, Luigi Panza, Saverio Altieri, Sandra Ristori "Increasing tumor uptake of Boron: bioactive compounds and vectors", ICNCT-15, Tsukuba, Japan, 10-14 Sept 2015
69. Nicoletta Protti, Silva Bortolussi, Michele Prata, Piero Bruschi, Saverio Altieri, David W. Nigg, "Physical Neutron Dosimetry for the University of Pavia Thermal Neutron Source for BNCT Research", ICNCT-15, Tsukuba, Japan, 10-14 Sept 2015