

**SCUOLA DI DOTTORATO IN SCIENZE E TECNOLOGIE CHIMICHE E
FARMACEUTICHE**

Università di Trieste

Cicli XXII(prorogati), XXIII, XXIV, XXV

Pubblicazioni e Contributi a Congressi dei dottorandi nel 2010

(in grassetto i nomi dei dottorandi)

Ciclo XXII (prorogati IV anno)

Pubblicazioni 2010

1. **S. Mohnani**, A. Llanes-Pallas, D. Bonifazi 'Mastering nanostructured materials through H-bonding recognitions at interfaces.' *Pure and Applied Chemistry* **2010**, 82, 917-929.
2. **S. Mohnani**, D. Bonifazi 'Supramolecular architectures of porphyrins on surfaces: the structural evolution from 1D to 2D to 3D to devices.' *Coordination Chemistry Review* **2010**, 254, 2342-2362.

Ciclo XXIII
Pubblicazioni 2010

1. A. Basso, P. Spizzo, V. Ferrario, L. Knapic, **N. Savko**, P. Braiuca, C. Ebert, E. Ricca, V. Calabrò, L. Gardossi “Endo- and exo-inulinases: enzyme-substrate interaction and rational immobilization.” *Biotechnol. Prog.* **2010**, *26*, 397-405.
2. M. Eriksson, A. Boyer, **L. Sinigoi**, M. Johansson, E. Malmstrom, K. Hult, S. Trey, M. Martinelle, “One-Pot Enzymatic Route to Tetraallyl Ether Functional Oligoesters: Synthesis, UV Curing, and Characterization”, *Journal of Polymer Science Part A: Polymer Chemistry*, **2010**, *48* (23), pp 5289–5297.
3. N. Hickey, **I. Boscarato**, J. Kašpar, L. Bertinetti, M. Botavina, G. Martra ‘Effect of the support on activity of silver catalysts for the selective reduction of NO by propene.’ *Applied Catalysis B: Environmental*, **2010**, *100* (1-2), 102-115.
4. D. Heim, K. Seufert, W. Auwärter, C. Aurisicchio, **C. Fabbro**, D. Bonifazi, J. V. Barth “Surface-Assisted Assembly of Discrete Porphyrin-Based Cyclic Supramolecules.” *Nano Letters*, **2010**, *10*, 122-128.
5. D. Heim, D. Ecija, K. Seufert, W. Auwärter, C. Aurisicchio, **C. Fabbro**, D. Bonifazi, J. V. Barth “Self-Assembly of Flexible One-Dimensional Coordination Polymers on Metal Surfaces.” *J. Am. Chem. Soc.*, **2010**, *132*, 6783–6790.
6. D. Ecija, K. Seufert, D. Heim, W. Auwärter, C. Aurisicchio, **C. Fabbro**, D. Bonifazi, J. V. Barth “Hierarchic Self-Assembly of Nanoporous Chiral Networks with Conformationally Flexible Porphyrins.” *ACS Nano*, **2010**, *4*, 4936-4942.
7. C. Samorì, H. Ali-Boucetta, R. Sainz, C. Guo, F. M. Toma, **C. Fabbro**, T. Da Ros, M. Prato, K. Kostarelos, A. Bianco “Enhanced anticancer activity of multi-walled carbon nanotube–methotrexate conjugates using cleavable linkers.” *Chem. Commun.*, **2010**, *46*, 1494–1496.
8. C. Ménard-Moyon, E. Venturelli, **C. Fabbro**, C. Samorì, T. Da Ros, K. Kostarelos, M. Prato, A. Bianco “The alluring potential of functionalized carbon nanotubes in drug discovery.” *Expert Opin. Drug Discov.*, **2010**, *5*, 691-707.
9. J. Van den Bossche, W. T. Al-Jamal, B. Tian, A. Nunes, **C. Fabbro**, A. Bianco, M. Prato, K. Kostarelos “Efficient receptor-independent intracellular translocation of aptamers mediated by conjugation to carbon nanotubes.” *Chem. Commun.*, **2010**, *46*, 7379-7381.
10. S. L. Cheong, A. Dolzhenko, S. Paoletta, **S. Federico**, B. Cacciari, A. Dolzhenko, S. Kachler, K.-N. Klotz, S. Moro, G. Spalluto, G. Pastorin ‘The Significance of 2-Furyl Ring Substitution with a 2-(para-substituted) Aryl Group in a New Series of Pyrazolo-triazolo-pyrimidines as Potent and Highly Selective hA₃ Adenosine Receptors Antagonists: New Insights into Structure-Affinity Relationship and Receptor-Antagonist Recognition.’ *Journal of Medicinal Chemistry*, **2010**, *53*, 3361–3375.
11. G. Pastorin, **S. Federico**, S. Paoletta, M. Corradino, F. Cateni, B. Cacciari, K.-N. Klotz, Z.-G. Gao, K. A. Jacobson, G. Spalluto, S. Moro. ‘Synthesis and Pharmacological Characterization of a New Series of 5,7-Disubstituted-[1,2,4]Triazolo[1,5-a][1,3,5]Triazine Derivatives as Adenosine Receptor Antagonists: a Preliminary Inspection of Ligand–Receptor Recognition Process.’ *Bioorganic & Medicinal Chemistry*, **2010**, *18*, 2524-2536.
12. S. Paoletta, **S. Federico**, G. Spalluto, S. Moro ‘Chapter 13: Receptor-Driven Identification of Novel Human A₃ Adenosine Receptor Antagonists as Potential Therapeutic Agents.’ *Methods in Enzymology. Constitutive Activity in receptors and other proteins Part B*, **2010**, *485*, 225-244.
13. I. Colussi, A. Cortesi, V. Gallo, D. Solinas, **R. Vitanza** ‘Removal of Nickel by sorption on anaerobic sludge. Effects on methane production.’ *Chemical Engineering Transactions*, **2010**, *20*, 297-302;

Ciclo XXIV
Pubblicazioni 2010

1. A. Basso, P. Spizzo, V. Ferrario, **L. Knapic**, N. Savko, P. Braiuca, C. Ebert, E. Ricca, V. Calabrò, L. Gardossi “Endo- and exo-inulinases: enzyme-substrate interaction and rational immobilization.” *Biotechnol. Prog.* **2010**, 26, 397-405.
2. I. Kikic, **N. De Zordi**, M. Moneghini, D. Solinas, ‘Solubility estimation of drugs in ternary systems of interest for the antisolvent precipitation processes’ *Journal of Supercritical Fluids*, **2010**, 55, 616-622.
3. **N. De Zordi**, I. Kikic, M. Moneghini, D. Solinas, ‘Piroxicam solid state studies after processing with SAS technique.’, *Journal of Supercritical Fluids*, **2010**, 55, 340-347.
4. M. Moneghini, **N. De Zordi**, D. Solinas, S. Macchiavelli, F. Princivalle, ‘Characterization of solid dispersions of itraconazole and vitamin E TPGS prepared by microwave technology.’, *Future Medicinal Chemistry*, **2010**, 2, 237-246.
5. Coppola, C.; Paciello, A.; Mangiapia, G.; Licen, S.; **Boccalon, M.**; De Napoli, L.; Paduano, L.; Tecilla, P.; Montesarchio, D. ‘Design, Synthesis and Characterisation of a Fluorescently-Labelled CyPLOS Ionophore.’ *Chem. Eur. J.* **2010**, 16, 13757-13772.
6. L. De Rogatis, M. Cargnello, **V. Gombac**, B. Lorenzut, T. Montini, P. Fornasiero ‘Embedded phases: a way to active and stable catalysts.’ *ChemSusChem*, **2010**, 3, 24-42.
7. **V. Gombac**, L. Sordelli, T. Montini, J. J. Delgado, A. Adamski, G. Adami, M. Cargnello, S. Bernal, P. Fornasiero ‘CuOx-TiO₂ Photocatalysts for H₂ Production from Ethanol and Glycerol Solutions.’ *The Journal of Physical Chemistry A*, **2010**, 114, 3916-3925.
8. T. Montini, **V. Gombac**, A. Hameed, L. Felisari, G. Adami, P. Fornasiero ‘Synthesis, characterization and photocatalytic performance of transition metal tungstates.’ *Chemical Physics Letters*, **2010**, 498, 113-119.
9. T. Gianferrara, A. Bergamo, I. Bratsos, B. Milani, **C. Spagnul**, G. Sava, E. Alessio ‘Ruthenium-Porphyrin Conjugates with Cytotoxic and Phototoxic Antitumor Activity.’ *Journal of Medicinal Chemistry*, **2010**, 53, 4678-4690.

Ciclo XXV
Pubblicazioni 2010

1. Grassi G., **Hasa D.**, Voinovich D., Perissutti B., Dapas B., Farra R., Franceschinis E., Grassi M. 'Simultaneous release and ADME processes of poorly water soluble drugs: mathematical modelling.' *Molecular Pharmaceutics*, **2010**, 7, 1488-1497.
2. Iosio T., Voinovich D., Perissutti B., Serdoz F., **Hasa D.**, Grabnar I., Dall'Acqua S., Zara G.P., Muntoni E., Pinto J.F. 'Oral bioavailability of silymarin phytocomplex formulated as self-emulsifying pellets.' *Phytomedicine* DOI: 10.1016/j.phymed.2010.10.012
3. Serdoz F., Voinovich D., Perissutti B., Grabnar I., **Hasa D.**, Ballestrazzi R. 'An innovative oxytetracycline self-emulsifying formulation for fish diets: preparation, characterisation and oral bioavailability in Rainbow Trout (*Oncorhynchus mykiss*) and in European Sea Bass (*Dicentrarchus Labrax*).' *J Drug Del Sci Techn.*, **2010**, 20, 431-437.

Ciclo XXII (I anno post-dottorato)
Pubblicazioni 2010

1. A. Mateo-Alonso, N. **Kulisic**, G. Valenti, M. Marcaccio, F. Paolucci, M. Prato *Chem. Asian J.* **2010**, 5, 482.
2. F. Cateni, V. Lucchini, M. Anderluh, **P. Martinuzzi**, M. Zacchigna, A. Piltaver, B. Doljak 'Triterpenes from *Gloeophyllum odoratum* as Potential Leads towards potent thrombin inhibitors' *Letters in Drug Design & Discovery*, **2010**, 7, 521-527.
3. F. Felluga, F. Ghelfi, G. Pitacco, F. Roncaglia, E. Valentin, **C. D. Venneri** 'Esterase-mediated synthesis of optically active GABA analogues containing a stereogenic all-carbon quaternary carbon atom.' *Tetrahedron: Asymmetry* **2010**, 21, 2183-2191.
4. W. Baratta, F. Benedetti, A. Del Zotto, **L. Fanfoni**, F. Felluga, S. Magnolia, E. Putignano, P. Rigo 'Chiral Pincer Ruthenium and Osmium Complexes for the Fast and Efficient Hydrogen Transfer Reduction of Ketones.' *Organometallics* **2010**, 29, 3563-3570.
- A. D'Amora, **L. Fanfoni**, D. Cozzula, N. Guidolin E. Zangrando, F. Felluga, S. Gladiali, F. Benedetti, B. Milani 'Addressing the Poly- to Oligo-ketone Selectivity in Styrene Carbonylation Catalyzed by Palladium/bpy Complexes, Effect of the 6-Alkyl Substitution.' *Organometallics* **2010**, 29, 4472 - 4485.
5. W. Baratta, **L. Fanfoni**, S. Magnolia, K. Siega, P. Rigo 'Benzo[h]quinoline pincer ruthenium and osmium catalysts for hydrogenation of ketones.' *Eur. J. Inorg. Chem.* **2010**, 1419-1423.
6. M. Grassi, G. Cavallaro, S. Scirè, B. Scaggiante, B. Dapas, R. Farra, D. Baiz, C. Giansante, G. Guarnieri, **D. Perin**, G. Grassi 'Current Strategies to Improve the Efficacy and the Delivery of Nucleic Acid Based Drugs.' *Current Signal Transduction Therapy*, **2010**, 5, 92-120.
7. Pricl S., Tonelli M., Boido V., La Colla P., Loddo R., Ibba C., Giliberti G., **Laurini E.**, Posocco P., Fermeglia M. 'Synergistic experimental/computational studies on arylazoamine derivatives that target the bovine viral diarrhea virus RNA-dependent RNA polymerase.' *Bioorg Med Chem.*, **2010**, 18, 6055-6068.
8. Dileo P, Pricl S, Tamborini E, Negri T, Stacchiotti S, Gronchi A, Posocco P, **Laurini E**, Coco P, Fumagalli E, Casali PG, Pilotti S 'Imatinib affinity of two responsive PDGFRA mutated GIST by imaging, biochemical and molecular modeling approaches.' *Int. Journal of Cancer* (2010) DOI: 10.1002/ijc.25418 in press.
9. **Laurini E.**, Zampieri D., Grazia Mamolo M., Vio L., Zanette C., Florio C., Posocco P., Fermeglia M., Pricl S. 'A 3D-pharmacophore model for σ_2 receptors based on a series of substituted benzo[d]oxazol-2(3H)-one derivatives.' *Bioorg. Med. Chem. Lett.*, **2010**, 20, 2954-2957.
10. Tubaro A., **Dell'ovo V.**, Sosa S., Florio C. 'Yessotoxins: a toxicological overview.' *Toxicon.*, **2010**, 56,163-172.

**Ciclo XXII (prorogati IV anno)
Contributi a Congressi 2010**

1. **S. Cozzutto**,* L. Sabina, P. Barbieri ‘Approccio integrato al problema delle molestie olfattive provenienti da impianti di stoccaggio di idrocarburi: Trieste, un caso di studio.’ XII Congresso Nazionale di Chimica dell’Ambiente e dei Beni Culturali, Taormina, 26-30 settembre 2010. **Comunicazione orale. *Presenting author.**
2. **S. Cozzutto**,* A. Miliazza, G. De Gennaro, A. Cesare Imperatorec, P. Barbieri “Automazione della DTD-GC-MS per l’analisi di IPA nel PM10 e nel PM2,5: risultati ed esperienze in un’aria costiera” 4° Convegno Nazionale sul Particolato Atmosferico, PM2010 Venezia. **Comunicazione orale. *Presenting author.**
3. **S. Cozzutto**, L. Sabina, P. Barbieri “Analisi di composti target e ritrovamenti imprevisti con DTD-GC-MS su filtri di particolato atmosferico: Messa a punto di metodiche analitiche e casi di studio” XII Congresso Nazionale di Chimica dell’Ambiente e dei Beni Culturali, Taormina, 26-30 settembre 2010. **Comunicazione orale.**
4. L. Giorgini, A. Pastrello, J. Falomo, S. Pison, P. Barbieri, **S. Cozzutto** “Ulteriori conferme sulla validità del prelievo passivo per lo studio degli IPA aerodispersi: analisi effettuate durante la campagna di monitoraggio nel polo industriale della sedia ubicato nel comune di manzano (UD)” XII Congresso Nazionale di Chimica dell’Ambiente e dei Beni Culturali, Taormina, 26-30 settembre 2010. **Comunicazione orale.**
- B. Piazzalunga, P. Barbieri, V. Castellani, E. Collina, **S. Cozzutto**, M. Lasagni, D. Pitea “Sviluppo del set-up sperimentale per la misura dei fattori di emissione di impianti domestici per la combustione della legna: Indagine preliminare” XII Congresso Nazionale di Chimica dell’Ambiente e dei Beni Culturali, Taormina, 26-30 settembre 2010. **Poster.**
5. L. Sabina, **S. Cozzutto**, G. Barbieri, M. Casanova, P. Barbieri “Confronto tra simulazioni di dispersione di PM e misure sperimentali in prossimità di un inceneritore in un distretto industriale” XII Congresso Nazionale di Chimica dell’Ambiente e dei Beni Culturali, Taormina, 26-30 settembre 2010. **Poster.**
- C. Della Torre, M. Sesso, **S. Cozzutto**, A. Altobelli, P. Barbieri “Applicabilità del fitorimedio per l’attenuazione della contaminazione in siti inquinati da IPA invecchiati e studi sui flussi di carbonio nei lotti sperimentali” XII Congresso Nazionale di Chimica dell’Ambiente e dei Beni Culturali, Taormina, 26-30 settembre 2010. **Poster.**
6. P. De Ceglie, M. Casanova, F. Cozzi, **S. Cozzutto**, L. Giorgini, S. Marras, G. Pojana, P. Barbieri, M. Casanova, P. Barbieri “Studi spettroscopici e cromatografici sul particolato organico secondario: effetto di ossidanti atmosferici e componenti biogeniche” XII Congresso Nazionale di Chimica dell’Ambiente e dei Beni Culturali, Taormina, 26-30 settembre 2010. **Poster.**
7. R. Urbani, P. Sist, **S. Cozzutto**, G. Barbieri, P. Barbieri “Indagine chimica e tossicologica dell’esposizione a polveri ed inquinanti atmosferici di lavoratori outdoor nell’area di Muggia (Trieste)” 4° Convegno nazionale sul Particolato Atmosferico, PM2010 Venezia. **Poster.**
8. P. de Ceglie, S. Cozzutto, P. Barbieri, L. Giorgini, I. Pellegrini, G. Pojana, A. Miliazza “Studi analitici su componenti organiche dell’aerosol secondario” 4° Convegno Nazionale sul Particolato Atmosferico, PM2010 Venezia. **Poster.**
9. S. Licen, **S. Cozzutto**, G. Barbieri, M. Casanova, P. Barbieri “Confronto tra simulazioni di dispersione di PM e misure sperimentali in prossimità di un inceneritore in un distretto mobiliere 4° Convegno Nazionale sul Particolato Atmosferico, PM2010 Venezia. **Poster.**
10. **S. Mohnani**,* M. Prato, D. Bonifazi, ‘Towards the Engineering of Nanostructure Surfaces via Self-assembly of Peptide Nucleic Acids (PNAs).’ Marie Curie Research Training Network PRAIRIES progress meeting, Basel, Switzerland, 15/04/10 – 16/04/10. **Comunicazione orale. *Presenting author**

11. **S. Mohnani**,* M. Prato, D. Bonifazi, 'Click-able Porphyrins: Towards the Engineering of Nanostructure Surfaces via Hydrogen-bonding directed Self-assembly' Vancouver, Canada, 217th ECS Meeting, 25/04/10 – 30/04/10. **Comunicazione orale. *Presenting author**
12. **S. Mohnani**,* M. Prato, D. Bonifazi, 'Chromophoric Tagging of Peptide Nucleic Acids using Cu(I)-free 1,3-Dipolar Cycloaddition Reactions.' Budapest, Hungary, Marie Curie Research Training Network PRAIRIES progress meeting, 24/09/10 – 25/09/10. **Comunicazione orale. *Presenting author**
13. **S. Mohnani**,* M. Prato, D. Bonifazi, 'Chromophoric Tagging of Peptide Nucleic Acids using Cu(I)-free 1,3-Dipolar Cycloaddition Reactions.' Spa, Belgium, 14th SIGMA-ALDRICH Organic Synthesis Meeting, 02/12/10 – 03/12/10. **Comunicazione orale. *Presenting author.**
14. **S. Armani**,* D. Bonifazi, M. Prato 'Five-membered heterocycles as novel molecular scaffolds for targeting triplehydrogen bonding interactions.' The 12th RSC-SCI Joint Meeting on Heterocyclic Chemistry, Brighton, UK 3 – 6/05/10. **Comunicazione orale. *Presenting author.**
15. **S. Armani**,* D. Bonifazi, M. Prato 'Five-membered heterocycles as novel molecular scaffolds for targeting triplehydrogen bonding interactions.' 3rd EuCheMS Chemistry Congress Norimberga, Gemania, 29/08/10 – 02/09/10. **Poster, *Presenting author.**
16. **S. Armani**,* D. Bonifazi, M. Prato 'Five-membered heterocycles as novel molecular scaffolds for targeting triplehydrogen bonding interactions.' 14th SIGMA-ALDRICH Organic Synthesis Meeting, Spa, Belgium, 02 – 03/12/10. **Comunicazione orale. *Presenting author.**

Ciclo XXIII
Contributi a Congressi 2010

1. **L. Sinigoi,*** D. Fattor, A. Basso, P. Spizzo, P. Braiuca e L. Gardossi, “Immobilizing lipases for industrial applications: synthesis of biodiesel and polyesters”, Novel Enzymes 2010, Exeter, United Kingdom, 14-17 Aprile 2010. **Poster, * Presenting author.**
2. **L. Sinigoi,*** A. Basso, D. Fattor, V. Ferrario, P. Braiuca e L. Gardossi, “Immobilised lipases for biodiesel and polyester synthesis: optimization of biocatalyst stability under operational conditions”, RRB6 – the 6th International Conference on Renewable Resources and Biorefineries, Dusseldorf, Germany, 7-9 Giugno 2010. **Poster, * Presenting author**
3. **I. Boscarato,*** N. Hickey, J. Kašpar, L. Bertinetti, M. Botavina, G. Martra ‘Support effects on the activity of silver catalysts for the selective reduction of NO by propene.’ XXXVIII Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana. Trieste 13-16 Settembre 2010. **Poster, * Presenting author**
4. **C. Fabbro,*** M. Lucafò, S. Pacor, S. Zorzet, G. Sava, T. Da Ros, M. Prato “New approaches in cancer therapy with fullerene derivatives.” *23° Convegno Annuale dell’AICC: Nanotecnologie e Veicolazione di Farmaci & International Satellite Symposium: Pivotal Aspects in Mesenchymal Stem Cells Expansion*, Milano, 24-26 Novembre 2010. **Poster e Comunicazione orale, *presenting author**
5. C. Aurisicchio, D. Stassen, V. Corvaglia, **C. Fabbro**, D. Bonifazi “Design and Synthesis of Porphyrin Frameworks for Multidimensional Molecular Materials.” *217th ECS Meeting*, Vancouver (Canada), 26 April 2010. **Comunicazione orale**
6. **V. A. Zamolo,*** G. Valenti, F. Paolucci and M. Prato, “A CNTs-based electrochemiluminescent biosensor for palytoxin detection.” Summer Nanoinnovating groups Workshop, Bibione, maggio 2010. **Comunicazione orale, *Presenting author**
7. S. L. Cheong, A. Dolzhenko, S. Paoletta, **S. Federico,*** B. Cacciari, A. Dolzhenko, S. Kachler, K.-N. Klotz, S. Moro, G. Spalluto, G. Pastorin. ‘The Significance of 2-Furyl Ring Substitution with a 2-(para-Substituted) Aryl Group in a New Series of Pyrazolo-Triazolo-Pyrimidines as Potent and Highly Selective hA₃ Adenosine Receptors Antagonists.’ Nuove prospettive in chimica farmaceutica IV, 05-07 Maggio 2010, Santa Margherita di Pula (CA). **Poster, *Presenting author**
8. G. Pastorin, **S. Federico,*** F. Cateni, B. Cacciari, K. Norbert Klotz, Z.-G. Gao, K. A. Jacobson, M. Corradino, S. Paoletta, S. Moro, G. Spalluto. ‘Synthesis and Pharmacological Characterization of a New Series of 5,7-Disubstituted-[1,2,4]Triazolo[1,5-a][1,3,5] Triazine Derivatives as Adenosine Receptor Antagonists: A Preliminary Receptor-Driven SAR Profile.’ Nuove prospettive in chimica farmaceutica IV, 05-07 Maggio 2010, Santa Margherita di Pula (CA). **Poster, *Presenting author**
9. S. Paoletta, **S. Federico**, S. L. Cheong, A. Dolzhenko, A. Dolzhenko, S. Kachler, B. Cacciari, K.-N. Klotz, G. Pastorin, G. Spalluto, S. Moro ‘The Pyrazolo-Triazolo-Pyrimidine Scaffold as a Versatile Platform to Design Potent and Highly Selective hA₃ Adenosine Receptor Antagonists: the Role of 2-Furyl Ring Substitution Demystified through Analysis on a Novel Series of 2-(para-Substituted)aryl Analogs.’ Nuove prospettive in chimica farmaceutica IV, 05-07 Maggio 2010, Santa Margherita di Pula (CA). **Poster.**
10. **S. Federico*** Design, Synthesis and Biological Evaluation of New Potent and Selective Adenosine Receptor Antagonists.’ European School of Medicinal Chemistry (ESMEC), 04-09 Luglio 2010, Urbino (PU). **Poster, *Presenting author**
11. S. L. Cheong, A. Dolzhenko, S. Paoletta, **S. Federico,*** B. Cacciari, A. Dolzhenko, S. Kachler, K.-N. Klotz, S. Moro, G. Spalluto, G. Pastorin ‘The Significance of 2-Furyl Ring Substitution with a 2-(para-substituted) Aryl Group in a New Series of Pyrazolo-Triazolo-Pyrimidines as Potent and Highly Selective hA₃ Adenosine Receptors Antagonists.’ XX National Meeting on Medicinal

- Chemistry 2010, 12-16 Settembre 2010, Abano Terme (PD). **Poster, *Presenting author**
12. **S. Federico,*** S. L. Cheong, G. Pastorin, B. Cacciari, K. N. Klotz, K. A. Jacobson, Z. G. Gao, S. Paoletta, S. Moro, G. Spalluto 'Synthesis and Pharmacological Characterization of a New Series of [1,2,4]Triazolo[1,5-a][1,3,5]Triazines as Adenosine Receptor Antagonists: Investigations Around 5 Position.' XX National Meeting on Medicinal Chemistry 2010, 12-16 Settembre 2010, Abano Terme (PD). **Poster, *Presenting author**
 13. **A. Oštrić,** F. Benedetti, F. Berti "A Ring Closing Metathesis Strategy Towards Mono- and Dihydroxyethylene isosters of Xaa-Pro Dipeptides." Convegno Nazionale di Chimica Organica, San Benedetto del Tronto (AP) , 12-16/09/2010. **Poster**
 14. **A. Oštrić,*** F. Benedetti, F. Berti " HIV Protease Inhibitors Based on Monohydroxyethylene Isosters of Proline." I giovani e la chimica in Friuli Venezia Giulia 2010, Udine, 24/09/2010. **Comunicazione orale, *Presenting author**
 15. **A. Oštrić,*** F. Benedetti, F. Berti 'New Syntetic Strategy Towards Mono- and Dihydroxyethylene Isosters of Xaa-Pro peptides.' Sigma-Aldrich Young Chemist Symposium, Pesaro (PU), 18-20/10/2010. **Comunicazione orale, *Presenting author**
 16. **A. Pace,*** C. Lunghi, B. Richichi, C. Nativi, L. Pasquato 'Tumour associated antigens linked to gold nanoparticles: multivalent systems for recognition and potential vaccines against cancer.' European Winter School of Organic Physical Chemistry, Bressanone (BZ). **Poster, *Presenting author**
 17. I. Colussi, A. Cortesi, V. Gallo, **N. Stefani, R. Vitanza** 'Biogas from Energy Crops: Evaluation of a Multi-Stage Procedure.' IBS 2010 - 14th International Biotechnology Symposium and Exhibition - Biotechnology for the Sustainability of Human Society, Rimini, September 14-18 (2010). **Poster**

Ciclo XXIV
Comunicazioni a Congresso 2010

1. **M. Boccalon**,* E. Iengo, E. Alessio, P. Tecilla “Synthesis of *meso*-substituted *trans*-A₂B₂-porphyrins from dipyrromethanes and aldehydes as building blocks for the construction of metal-organic nanopores.” XXXV A. Corbella Summer school, Seminars in organic synthesis, 14-18/06/2010, Gargnano (BS). **Poster, * Presenting author**
2. **M. Boccalon**,* E. Iengo, E. Alessio, P. Tecilla “Sintesi di porfirine *meso* sostituite di tipo *trans*-A₂B₂ a partire da dipirrometano e aldeide per la costruzione di nanopori metallo-organici.” I giovani e la chimica in Friuli Venezia Giulia 2010, Udine, 24/09/2010. **Comunicazione orale, *presenting author**
3. Sosa S., Giangaspero A., Ponti C., **Del Favero G.**, Pollastro F., Appendino G., Tubaro A., Della Loggia R. ‘Topical anti-inflammatory agents from the alpine flavouring plant *Artemisia umbelliformis* lam.’ 58th International congress and annual meeting of the society for medicinal plant and natural product research. Berlin, September 2010. **Poster**
4. **G. Del Favero**, P. Lorenzon, C. Florio, S. Sosa, P. Ciminiello, E. Fattorusso, M. Poli, G. Bignami, A. Tubaro ‘Toxicity of palytoxin and 42-hydroxy-palytoxin on cultured mouse skeletal muscle cells.’ Congress IUTOX 2010 – Barcelona, July 2010. **Poster**
5. S. Sosa, L. Baumgartner, A. Giangaspero, **G. Del Favero**, S. Schwaiger, J.M. Rollinger, H. Stuppner, A. Tubaro ‘Topical anti-inflammatory activity of a dichloromethane extract and constituents from *Rhatany*.’ International Symposium “Drugs From Nature Targeting Inflammation” – Innsbruck, April 2010. **Poster**
6. **D. Fattor**,* H. Veny, P. Spizzo, P. Braiuca, L. Gardossi ‘Immobilizing lipases for industrial applications: synthesis of Biodiesel’ E-WISPOC Winter School of Physical and organic chemistry, Bressanone (BZ), 1- 6 febbraio 2010. **Poster, *presenting author**
7. **D. Fattor**,* H. Veny, P. Spizzo, V. Ferrario, P. Braiuca, L. Gardossi ‘Production of biodiesel catalyzed by immobilized lipases highly stable under operative conditions.’ Novel Enzymes 2010, Exeter (UK), 14 - 17 Aprile 2010. **Poster, *presenting author**
8. L. Sinigoj, **D. Fattor**, A. Basso, P. Spizzo, P. Braiuca, L. Gardossi ‘Immobilizing lipases for industrial applications: synthesis of biodiesel and polyesters.’ Novel Enzymes 2010, Exeter, United Kingdom, 14 - 17 Aprile 2010. **Poster**
9. L. Sinigoj, A. Basso, **D. Fattor**, V. Ferrario, P. Braiuca, L. Gardossi ‘Immobilised lipases for biodiesel and polyester synthesis: optimization of biocatalyst stability under operational conditions.’ RRB6 – the 6th International Conference on Renewable Resources and Biorefineries, Dusseldorf, Germany, 7 - 9 June 2010. **Poster**
10. **V. Gombac**, T. Montini, L. Sordelli, M. Cargnello, P. Fornasiero ‘CuO_x/TiO₂ nanostructure for photocatalytic hydrogen production.’ ACS Fall 2010 National Meeting, Boston, USA, agosto 2010 (**comunicazione orale**, P. Fornasiero).
11. M. Cargnello, P. Fornasiero, **V. Gombac**, M. Graziani, B. Lorenzut, T. Montini ‘Embedded metal nanoparticles as heterogenous catalysts: advantages and disadvantages.’ XXXVIII Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana, Trieste, settembre 2010 (**poster**, T. Montini, M. Cargnello).
12. D. Barreca, P. Fornasiero, A. Gasparotto, **V. Gombac**, O.I. Lebedev, C. Maccato, T. Montini, G. Van Tendeloo, E. Tondello, S. Turner ‘Tailored synthesis of copper- and cobalt-oxide nanosystems for photocatalytic H₂ production.’ Seventh International Conference on Inorganic Materials, Biarritz, France, Settembre 2010. (**comunicazione orale**, A. Gasparotto)
13. P. Canton, A. Benedetti, T. Montini, A. Hameed, **V. Gombac**, P. Fornasiero ‘Structural characterization and photocatalytic activity correlation of Bi₂O₃/Bi₂O_{4-x} Nanocomposite.’ CF2010 – XXXIX Congresso Nazionale di Chimica Fisica, Stresa (VB), settembre 2010 (**comunicazione orale**, P. Canton).

14. P. Canton, A. Benedetti, T. Montini, A. Hameed, **V. Gombac**, P. Fornasiero, 'Structural characterization and photocatalytic activity correlation of Bi₂O₃/Bi₂O_{4-x} Nanocomposite.' NANOTECHITALY2010, Venezia, ottobre 2010 (**comunicazione orale**, P. Canton).
15. V. Dal Santo, A. Gallo, M. Marelli, R. Psaro, **V. Gombac**, T. Montini, P. Fornasiero 'A new class of catalysts for H₂ production by renewables photoreforming.' NANOSMAT, Reims, Francia, ottobre 2010. (**comunicazione orale**, V. Dal Santo).
16. **A. Montellano López**,* T. Da Ros, M. Prato 'Novel fullerene derivatives for biomedical applications.' Fullerene Silver Anniversary Symposium, Crete, Greece, October 4-10, 2010. **Oral presentation, *presenting author**
17. **M. Lucafò**, S. Pacor, C. Fabbro, **A. Montellano López**, S. Zorzet, T. Da Ros, M. Prato, G. Sava 'Fullerene derivatives as carriers for anticancer drugs.' XIV Seminario Nazionale per Dottorandi in Farmacologia e Scienze affini, Venice, Italy, October 2010. **Poster**.
18. **A. Montellano López**,* T. Da Ros, M. Prato Summer Nanoinnovating groups Workshop, Bibione, Italy, May 19 - 22, 2010. **Oral presentation, *presenting author**.
19. **C. Spagnul**,* T. Gianferrara, A. Bergamo, I. Bratsos, B. Milani, G. Sava, E. Alessio 'Ruthenium-porphyrin conjugate with cytotoxic and phototoxic antitumor activity.' ESP PHOTOBIOLOGY SCHOOL, 21-26 June, 2010, Bressanone, Italy. **Poster, *presenting author**
20. **C. Spagnul**,* T. Gianferrara, I. Bratsos, E. Alessio 'Synthesis and evaluation of new ruthenium-porphyrin conjugates as ¹O₂ generators for Photodynamic Therapy.' ESP PHOTOBIOLOGY SCHOOL, 21-26 June, 2010, Bressanone, Italy. **Poster, *presenting author**
21. **A. E. Del Rio Castillo**,* M. Prato "Carbon based electronics, a distant dream" Summer Nanoinnovating groups Workshop, Bibione, Italy. May 19 - 22, 2010. **Oral presentation, *presenting author**
22. **M. Pelin**,* C. Zanette, S. Sosa, C. Florio, A. Tubaro 'Cytotoxic effect of palytoxin on human keratinocyte and colorectal adenocarcinoma cells. XII International Congress of Toxicology, Barcellona, 19 - 23/07/2010. **Poster, *presenting author**
23. **M. Pelin**,* C. Zanette, S. Sosa, A. Tubaro, C. Florio 'Characterization of cell death induced by palytoxin on an in vitro keratinocytes cell model.' 16th International Congress on In Vitro Toxicology, 13th Annual Congress of EUSAAT, 16th Congress on Alternatives to Animal Testing, Linz, Austria 2 - 4/09/2010. **Poster, *presenting author**
24. **M. Pelin**, A. Barreras Garcia, S. Sosa, C. Florio, R. Della Loggia, A. Tubaro 'Effects of the phycotoxin palytoxin on the human HaCaT keratinocytes *in vitro* skin irritation model.' HAB 2010: 14th International Conference on Harmful Algae, Creta, 1 - 5/11/2010. **Poster**

Ciclo XXV
Comunicazioni a Congresso 2010

1. **Hasa D.**,* Voinovich D., Perissutti B., Bonifacio A., Grassi M., Franceschinis E., Dall'Acqua S., Speh M., Plavec J. 'Multidisciplinary approach on characterizing composites of vinpocetine and crosopvidone obtained by solid state activation.' In: *8th Central European Symposium on Pharmaceutical Technology and Biodelivery Systems*, Graz, 16-18 September 2010. **Poster**. *Presenting author.
2. Voinovich D., Serdoz F., Perissutti B., **Hasa D.**,* Pinto J.F., Zara G.P., Bargoni A., Grabnar I. 'Gastro-intestinal lymphatic absorption of *Sylibum Marianum* formulated in self-emulsifying pellets.' In: *8th Central European Symposium on Pharmaceutical Technology and Biodelivery Systems*, Graz, 16-18 September 2010. **Poster**. *Presenting author.
3. Calogera G., Passerini N., Albertini B., **Hasa D.**,*Voinovich D. Melt 'Granulation in fluidized bed: Screening of the process variables by factorial design.' In: *8th Central European Symposium on Pharmaceutical Technology and Biodelivery Systems*, Graz, 16-18 September 2010. **Poster**. *Presenting author.
4. **M. Garziera**,* L.Caggiari, M. De Zorzi, C. Brunetti, V. Racanelli, D. Sansonno, S. De Vita, V. De Re 'Somatic mutation analysis of immunoglobulin variable k chain in patients with type ii mixed cryoglobulinemia.' *Crioglobulinemia: passato, presente e futuro*", Padova, 24 settembre 2010. **Poster**. *Presenting author.
5. R. Cannizzaro, **M. Garziera**, V. Canzonieri, L. Caggiari, S. Maiero, G. Toffoli, V. De Re 'CDH1 analysis as a possible marker for early gastric cancer in first degree gc-relatives.' XVI Congresso Nazionale Malattie Digestive, Verona 6 - 9 marzo 2010. **Presentazione orale**.
6. Effects of the palytoxin on the human HaCat Keratinocytes in vitro skin irritation model.M. Pelin, **A. Barreras-Garcia**, S. Sosa, C. Florio, R. Della Loggia, A. Tubaro 'Effects of the palytoxin on the human HaCat Keratinocytes in vitro skin irritation model.' 14th INTERNATIONAL CONFERENCE ON HARMFUL ALGAE, Hersonissos – CRETA (Greece), 1 - 5 NOV 2010. **Poster**
7. **P. de Ceglie**,* S. Cozzutto, P. Barbieri, G. Adami, L. Giorgini, I. Pellegrini, S. Marras, G. Pojana, A. Miliazza 'Studi analitici su componenti organiche dell'aerosol secondario.' PM2010, 18 - 20 Maggio 2010, Venezia. **Poster**, *Presenting author
8. **P. de Ceglie**,* S. Cozzutto, F. Cozzi, M. Casanova, L. Giorgini, S. Marras, G. Pojana, P. Barbieri 'Studi spettroscopici e cromatografici sul particolato organico secondario: effetto di ossidanti atmosferici e componenti biogeniche.' *Chimica dell'ambiente e dei beni culturali*, 26-30 Settembre 2010, Taormina. **Poster**, *Presenting author
9. Fanfoni, L.; **Meduri, A.**;* Zangrando, E.; Castellón, Felluga, F.; Milani, B. "New hybrid P-N ligands: coordination chemistry to palladium and catalytic activity in aliene dimerization." International School on Polymer Synthesis and Characterization (ISOPSC) – 2010, Fisciano, June 27 - July 2, 2010. **Poster**, *Presenting author
10. Fanfoni, L.; **Meduri, A.**;* Zangrando, E.; Castellón, Felluga, F.; Milani, B. "New hybrid P-N ligands: coordination chemistry to palladium and catalytic activity in aliene dimerization." XXXVIII Congresso Nazionale di Chimica Inorganica, Trieste, 13-16 Settembre 2010. **Poster**, *Presenting author
11. **Bottari, G.**; **Meduri, A.**;* Drommi, D.; Brancatelli, G.; Faraone, F. "Application of novel dinitrogen ligands based on camphor and BINOL backbones in allylic substitution reactions" XXXVIII Congresso Nazionale di Chimica Inorganica, Trieste, 13-16 Settembre 2010. (Comunicazione orale tenuta dal dr. Bottari.)
12. **A. Micoli**,* M. Quintana, L. Soriano, M. Prato "Multipoint Molecular Recognition of Zinc(II) Complex of Acridine-Pendant Cyclen by Thymidine Functionalized Carbon Nanotubes at

Physiological pH.” Ischia Advanced School of Organic Chemistry, Ischia Porto (NA), 25-29 Settembre 2010. **Poster, *Presenting author**

13. **Pavan S.**, Resmini M., Berti F. ‘Short Peptide as Biosensor Transducers’ ESOF (Euroscience Open Forum) 2010, Torino 1-2/07/10. **Poster**

Periodi di ricerca all'estero (2010)

1. **Stefan Mohnani** (Ciclo XXII): 04/2010 – 12/2010 FUNDP, Namur, Belgio.
2. **Valeria Zamolo** (Ciclo XXIII): dall'11 gennaio 2010 al 12 aprile 2010, periodo di Erasmus Placement trascorso a Strasburgo, presso l' Institut de Biologie Moléculaire et Cellulaire dell'Università di Strasburgo, sotto la supervisione del Dott. Alberto Bianco.
3. **Alessia Battigelli** (Ciclo XXIV): Dal 1 febbraio 2010 al 31 luglio 2011 presso: Université de Strasbourg, Institut de Biologie Moléculaire et Cellulaire, UPR 9021, CNRS, Immunologie et Chimie Thérapeutiques, Docente ospitante: Dr Alberto Bianco
4. **Spagnul Cinzia** (Ciclo XXIV):dal 01-11-2010 al 28-02-2011 presso Prof. Dr. Roger Alberto, Institute of Inorganic Chemistry, University of Zürich, Winterthurerstr. 190, CH-8057 Zürich, Switzerland.
5. **Berreras Alvaro** (Ciclo XXV): luglio – settembre 2010, presso Universidade de Vigo – Spain, Prof. Ana Gago-Martinez.
6. **Corvaglia Valentina** (Ciclo XXV): Gennaio-Marzo 2010 e Novembre 2010-Gennaio 2011: a Namur (Belgio) presso il laboratorio del Prof. Johan Wouters , Università Notre-Dame de la Paix.
7. **Pavan Silvia** (Ciclo XXV): Febbraio - Agosto 2010, Chemical Sciences Department of Queen Mary University of London. Supervisor: Dr. Marina Resmini.