



Research Topics

- 1) **Green Chemistry:**
 - a) New organoselenium reagents for reactions in non-conventional medium.
 - b) Bio-inspired oxidations
 - c) Design of new organoselenium catalysts for homogeneous and heterogeneous applications including flow systems.
- 2) **Design and Synthesis of new biologically active compounds:**
 - a) Organoselenium derivative as antioxidant agent
 - b) Organoselenium derivative as anticancer agent
 - c) Organoselenium derivative as antiviral agent(HIV)
 - d) Organoselenium derivative as antimicrobial agent
- 3) **Structural elucidation of complex systems by NMR**
 - a) Organometallic complexes
 - b) Metabonomic analysis
 - c) Test for the GpX-like activity
 - d) Biopolymers investigations

Coordination

- 1) Coordinator of the international research network "SeS-Redox and Catalysis"
- 2) Coordinator of the interdepartmental NMR service
- 3) Member of the ethic committee of the University of Perugia 2012-2015
- 4) Italian coordinator of the project financed by the BRITISH ITALIAN PARTNERSHIP PROGRAMME 2010: "Green Catalysts for Novel Chemistry"
- 5) Responsible of a research unit in the project 2011 financed by Fondazione Cassa di Risparmio di Perugia (Ricerca di Base): Title "Attività biomolecolare dei composti seleniorganici nella regolazione dell'adipogenesi in cellule mesenchimali staminali isolate dal tessuto adiposo di pazienti con diabete mellito di tipo 2"
- 6) Scientific responsible of the project POR UMBRIA European Social Found 2007-2013: 2011 entitled "Bio-inspired design of New Catalysts for sustainable Chemistry"
- 7) Responsible of a research unit in the project 2012 financed by Fondazione Cassa di Risparmio di Perugia (cofinanziamento alla ricerca): Titolo del Progetto "Processi ecosostenibili per la produzione e l'analisi di molecole di interesse farmaceutico"
- 8) Scientific responsible of the project financed by C.I.N.M.P.I.S. entitled: "Disegno e Sintesi di Seleno e Zolfo derivati come agenti innovativi per il trattamento dell'infezione da HIV"
- 9) Coordinator of 3 PhD students
- 10) Coordinator of 2 "PhD Sandwich" Università Federal de Santa Caterina BS
- 11) Regional editor of "Recent Patent on Catalysis"
- 11) Editor of "Organoselenium Chemistry from Synthesis to Biochemistry" - eBook Bentham

- 12) Responsible of the ERASMUS agreement with the University of:
- Cardiff UK
 - Czestocova PL
 - Wroclaw.PL

Collaborations

Prof. M. Ait Ali (Univ. Semlalia Cadi Ayyad Marocco)
Prof. Andrès Alcantara (Univ. Computense Madrid, E)
Prof. Antonio Luiz Braga (Universidade Federal de Santa Caterina BS)
Prof. Carlo Calafiore (Univ. Perugia)
Prof. Giorgio Della Sala (Univ. Salerno)
Prof. Jozef Drabowicz (Accademia Nazionale delle Scienze Polacca Lodz, PL)
Prof. Micho Iwaoka (Univ. Tokai, JP)
Prof. Alessandra Lattanzi,
Prof. Eder Lenardao (Universidade Federal de Pelotas BS)
Prof. Vito Lippolis (Univ. Cagliari)
Prof. M.C. Marcotullio (Univ. Perugia)
Prof. Joao Battista Rocha (Universidade Federal de Santa Maria BS)
Prof. Renzo Ruzziconi (Univ. Perugia)
Prof. Carl Schiesser (Univ. Melbourne Australia)
Prof. Iacek Scianowski (Univ. Torun PL)
Prof. Thomas Wirth (Univ. Cardiff, UK)

In the fram of the network "SeS Redox and Catalysis" (Univ. Perugia): Prof. Carmela Conte, Prof. Ferdinando Costantino, Prof. Francesco Galli, Prof. Antimo Gioiello, Prof. Stefano Giovagnoli, Prof. Massimo Moretti, Prof. Morena Nocchetti, Prof. Monica Pica, Prof. Prof. Donatella Pietrella, Prof. Roccaldo Sardella, Prof. Oriana Tabarrini, Prof. Riccardo Vivani.

publications (2009-2013)

- C. Santi*, C. Tidei "**Addition reaction for the formation of C-S and C-Se bond**" in *Comprehensive Organic Synthesis*, Elsevier (2013) 2nd Ed. accepted In press
- Stefano Giovagnoli*, Maria Luisa Marenzoni, Morena Nocchetti, Claudio Santi, Paolo Blasi, Aurelie Schoubben, Maurizio Ricci. **Synthesis, characterization and in vitro extra- and intracellular activity against *Mycobacterium tuberculosis* infection of new second-line antitubercular drug-palladium complexes.** *J Pharm Pharmacol.* (2013) DOI: 10.1111/jphp.12162
- Silvia Sternativo, Benedetta Battistelli, Luana Bagnoli, Claudio Santi, Lorenzo Testaferri, Francesca Marini* **Synthesis of γ -lactams via a domino Michael addition/cyclization reaction of vinyl selenone with substituted amides.** *Tet. Lett.* 2013, 54, 6755-6757.
- C. Santi* in *Science of Synthesis* vol. 39- (2013) Thieme: 39.18.2 **Alkaneselenols**, 391-405.
- C. Santi* in *Science of Synthesis* vol. 39- (2013) Thieme: 39.19.1.2 **Acyclic Alkaneselenolates**, 407-425.
- S. Santoro, S. Superchi, F. Messina, E. Santoro, O. Rosati, C. Santi, M.C. Marcotullio **Agarsenone, a Cadinane Sesquiterpenoid from *Commiphora erythraea*** *J. Nat Prod.* 2013, 76, 1254-1259.
- C. Santi*, F. Galli, M. Piroddi, C. Tidei **Thiols Oxidation for the Evaluation of Gpx-Like Activity Phosphorus, Sulfur, and Silicon and the Related Elements 2013**, 188 , 507-508 DOI: 10.1080/10426507.2012.727924

8. S. Propersi, C. Tidei, L. Bagnoli, F. Marini, L. Testaferri, C. Santi* **“On-water” thiolysis of epoxides promoted by PhSZnBr** *J. Sulf. Chem.* (2013), DOI:10.1080/17415993.2013.781604
9. M Anouar Harrad, B Boualy, L El Firdoussi, A Mehdi, C Santi, S Giovagnoli, M Nocchetti, M. Ait Ali* **Colloidal nickel (0)-carboxymethyl cellulose particles: A biopolymer-inorganic catalyst for hydrogenation of nitro-aromatics and carbonyl compounds** *Catal. Commun.* (2013), 32, 92-100.
10. L. Bagnoli*, S. Casini, F. Marini, C. Santi, L. Testaferri **Vinyl selenones: annulation agents for the synthesis of 6-membered benzo-1, 4-heterocyclic compounds** *Tetrahedron* (2013), 69, 481-486.
11. C. Santi*, C. Tidei, C. Scalera, M. Piroddi, F. Galli **Selenium Containing Compounds from Poison to Drug Candidates: A Review on the GPx-like Activity** *Current Chemical Biology* (2013), 7 (1), 25-36.
12. C. Santi*, C. Tidei (2013), **Electrophilic Se/Te reagents: reactivity and their contribution to "Green Chemistry"** in *The Chemistry of Organic Selenium and Tellurium Compounds, Volume 4*, edited by Z. Rappoport. John Wiley & Sons, Ltd: Chichester, UK, pp. 569-655. DOI:10.1002/9780470682531.pat0720
13. B. Natalini, C. Santi **“Risonanza Magnetica Nucleare”** in *Principi di Analisi Farmaceutica*, Eds. V. Cavrini, V. Andrisano, Società Editrice Esculapio, 2013 , pp 393-412. ISBN 978-88-7488-529-9
14. S. Propersi, C. Tidei, L. Sancineto, L. Bagnoli, F. Marini and C. Santi* **“PhSZn-halides: New Green Thiolates”** in Proceedings of 17th International Electronic Conference on Synthetic Organic Chemistry (ECSOC 17) Eds Julio A. Seijas, M. Pilar Vázquez Tato, 2013 MDPI, Basel, Switzerland. ISBN: 978-3906980-43-0 CDROM Edition
15. V. Frullini, S. Sternativo, C. Santi, L. Bagnoli, F. Marini* **“Stereoselective synthesis of cyclopropanes from vinyl selenones via a Michael-initiated ring closure reaction”** in Proceedings of 17th International Electronic Conference on Synthetic Organic Chemistry (ECSOC 17) Eds Julio A. Seijas, M. Pilar Vázquez Tato, 2013 MDPI, Basel, Switzerland. ISBN: 978-3906980-43-0 CDROM Edition
16. K. Berettoni, F. Marini, C. Santi, L. Bagnoli* **“An efficient cascade reaction for the synthesis of oxazino[4,3-a]indoles and pyrano[3,4-b]indoles from vinyl selenones”** in Proceedings of 17th International Electronic Conference on Synthetic Organic Chemistry (ECSOC 17) Eds Julio A. Seijas, M. Pilar Vázquez Tato, 2013 MDPI, Basel, Switzerland. ISBN: 978-3906980-43-0 CDROM Edition
17. I. Legnaioli*, S.; Piroddi, M.; Tidei, C.; Santi, C.; Galli, F. “
18. **Targeting the GSTP- dependent control of cell kinases and apoptosis with PhSeZnCl: a new seleno- organic drug** *Free Radical Biology and Medicine* vol. 53 September, 2012. p. S112
19. Legnaioli*, S.; Piroddi, M.; Tidei, C.; Santi, C.; Galli, F. **“PhSeZnCl: a new seleno-organic compound with glutathione peroxidase-like activity”** *Free Radical Biology and Medicine* vol. 53 September, 2012. p. S147. DOI: 10.1016/j.freeradbiomed.2012.08.308
20. C. Santi*, R. Di Lorenzo, C. Tidei, L. Bagnoli, T. Wirth **“Stereoselective Selenium catalyzed Dihydroxylation and Hydroxymethoxylation of Alkenes”** *Tetrahedron*, 2012, 68, 10530-10535. DOI: 10.1016/j.tet.2012.08.078
21. C. Santi*, B. Battistelli, L. Testaferri, M. Tiecco **“On-Water preparation of phenylselenoesters”** *Green Chem.* 2012 , 14, 1277-1280. DOI:10.1039/C2GC16541D.
22. C. Tidei, F. Piroddi, F. Galli, C. Santi* **“Oxidation of thiols promoted by PhSeZnCl”** *Tetrahedron Letters* 2012 53, 232-234.
23. L. Di Schino, F. Mangiavacchi, A. Antoszewska, J. Scianowski and C. Santi* **“Eco-Friendly Selenium Catalyzed Oxidative Cyclizations”** in Proceedings of 16th International Electronic Conference on Synthetic Organic Chemistry (ECSOC 16) Eds

- Julio A. Seijas, M. Pilar Vázquez Tato, Shu Ku Lin **2012** MDPI, Basel, Switzerland. ISBN: 3-906980-26-X CDROM Edition
24. L. Incipini, E. Rongoni, L. Bagnoli, F. Marini and C. Santi* **“New chiral electrophilic selenium reagents: synthesis and structural investigation”** in Proceedings of 16th International Electronic Conference on Synthetic Organic Chemistry (ECSOC 16) Eds Julio A. Seijas, M. Pilar Vázquez Tato, Shu Ku Lin **2012** MDPI, Basel, Switzerland. ISBN: 3-906980-26-X CDROM Edition
 25. C. Tidei, V. Saccomandi, L. Bagnoli, F. Marini and C. Santi* **“Green Oxidations of Aldehydes to Carboxylic Acids and Esters”** in Proceedings of 16th International Electronic Conference on Synthetic Organic Chemistry (ECSOC 16) Eds Julio A. Seijas, M. Pilar Vázquez Tato, Shu Ku Lin **2012** MDPI, Basel, Switzerland. ISBN: 3-906980-26-X CDROM Edition
 26. C. Santi*, V. Dragone, L. Di Schino, A. Antosweska, C. Tidei **“Bio-Logic Oxidations”** *Chim. & Ind.* **2011**, 8, 99-101 .
 27. C. Santi,* **“Phenylselenenylzinc halides” (2011)**, Encyclopedia of Reagents for Organic Synthesis, John Wiley & Sons Ltd., <http://onlinelibrary.wiley.com/book/10.1002/047084289X> [3/10/2011], DOI: 10.1002/047084289X.rn01352
 28. C. Santi*, S. Santoro **“Electrophilic Selenium Reagents”** in “Organoselenium Chemistry” Ed. T. Wirth, Wiley-VCH, **2011** – pp. 1-51.
 29. M. Senatore, A. Lattanzi, S. Santoro, C. Santi, G. Della Sala **“Desymmetrization of meso-aziridines with chalcogen centered nucleophiles: a general and highly enantioselective approach mediated by VAPOL-hydrogen phosphate”** *Org. Biomol. Chem.*, **2011**, 9, 6205-6207.
 30. Santi, C.*; Scalera C.; Tidei C.; Dragone, V.; Incipini, L.; Di Schino L. **“Green Chemistry for Environmental Sustainability: An Example of “Bio-Logic” Approach”** in *1st World Sustainability Forum (Proceedings in Sustainability)- 2011* – ISBN: 3-906980-27-8 by MDPI, Basel, Switzerland (*electronic*)
 31. C. Santi*, S. Santoro, M. Tiecco **“The Nature of Nonbonded Interactions between Divalent Selenium and Sulfur: a Theoretical Investigation”** in Proceedings of 15th International Electronic Conference on Synthetic Organic Chemistry (ECSOC 15) Eds Julio A. Seijas, M. Pilar Vázquez Tato 2011 MDPI, Basel, Switzerland. ISBN: 3-906980-25-1 CDROM Edition
 32. C. Santi*, R. Di Lorenzo, B. Battistelli, C. Scalera, C. Tidei, V. Dragone, L. Incipini, L. Di Schino, E. Rongoni, L. Testaferri, M. Tiecco **“Bioinspired Use of Organoselenium Catalysts”** *Electronic Conference of Synthetic Organic Chemistry* in Proceedings of 15th International Electronic Conference on Synthetic Organic Chemistry (ECSOC 15) Eds Julio A. Seijas, M. Pilar Vázquez Tato **2011** MDPI, Basel, Switzerland. ISBN: 3-906980-25-1 CDROM Edition
 33. B. Battistelli, L. Testaferri, M. Tiecco, C. Santi* **“On-Water” Michael type Addition Reactions promoted by PhSeZnCl”** *Eur. J. Org. Chem.* **2011**, 1048-1051.
 34. C. Santi,* S. Santoro, B. Battistelli **“Organoselenium Compounds as Catalysts in Nature and Laboratory”**, *Cur. Org. Chem.* **2010**, 14, 2442-2462.
 35. S. Santoro, B. Battistelli, B. Gyoka, C. W. S. Si, L. Testaferri, M. Tiecco, C. Santi,* **“Oxidation of alkynes in aqueous media catalyzed by diphenyl diselenide”** *Synlett* **2010**, 1402-1406.
 36. C. Santi,* B. Battistelli, A. Casagrande, G. Pintus, C. Tidei, L. Testaferri, M. Tiecco **“Zinc mediated Synthesis of Vinyl Selenide and GPx-like activity”** in Proceedings of 14th International Electronic Conference on Synthetic Organic Chemistry (ECSOC 14) Eds Julio A. Seijas, M. Pilar Vázquez Tato **2010** MDPI, Basel, Switzerland. ISBN: 3-906980-24-3 CDROM Edition

37. M.C. Marcotullio, C. Santi, G. N. Oball-Mend Mwankie, M. Curini **“Chemical Composition of the Essential Oil of Commiphora erythraea”** *Nat. Prod. Commun.* **2009**, *4*, 1751-1754.
38. D. M. Freudendahl, S. Santoro, S. A. Shahzad, C. Santi,* T. Wirth* **“Green Chemistry with Selenium Reagents: Development of Efficient Catalytic Reactions”** *Angew. Chem. Int. Ed.*, **2009**, *48*, 8409-8411.
39. S. Santoro, B. Battistelli, L. Testaferri, M. Tiecco, C. Santi,* **“Vinylc Substitutions Promoted by PhSeZnCl: Synthetic and Theoretical Investigations”** *Eur. J. Org. Chem.* **2009**, 4921-4925.
40. C. Santi*, S. Santoro, F. Pascolini, C. Tomassini, M. Tiecco **“Asymmetric methoxy selenenilation of a-b unsaturated aldehydes”** *Synlett* **2009**, 743-746.
41. C. Santi,* S. Santoro, B. Battistelli, B. Gyoka, C. W. S. Si, L. Testaferri, M. Tiecco **“Selenium Catalyzed Oxidation of Alkynes in aqueous media”** in Proceedings of 13th International Electronic Conference on Synthetic Organic Chemistry (ECSOC 13) Eds Julio A. Seijas, M. Pilar Vázquez Tato **2009** MDPI, Basel, Switzerland. ISBN: 3-906980-23-5 CDROM Edition

Invited, oral and poster communications and lectured (2009-2013)

Plenary and invited

1. C. Santi, Luana Bagnoli, Francesca Marini **“Development on the use of Organoselenium Compounds in Catalysis- Our First 20 Years”** 13° Giornata Scientifica Borsisti CINMPIS – 18 Dec 2013, Perugia
2. C. Santi **“The Green Side of the Moon”** Invited Plenary Lecture at ICCST12– International Conference on the Chemistry of Selenium and Tellurium - July 22-26, 2013, Cardiff, Wales, United Kingdom
3. C. Santi **“Bio-Logic” Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry”** Invited Lecture at Institute of Chemistry, Bialystok University – Bialystok, Poland 17 April 2013 included on the frame of the conferences promoted by the Polish Society of Chemistry
4. C. Santi **“Bio-Logic” Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry”** Invited Lecture at Department of Pharmacy – Collegium Medicum Bydgoszcz University, Bydgoszcz – Poland, 12 April 2013
5. C. Santi **“Bio-Logic” Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry”** Invited Lecture at Organic Chemistry Department Gdansk University of Technology, Gdansk – Poland, 10 April 2013
6. C. Santi **“Bio-Logic” Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry”** Invited Lecture at Institute of Chemistry –Faculty of Science of Siedlce University, Siedlce – Poland 9 April 2013
7. C. Santi **“Bio-Logic” Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry”** Invited Lecture at Department of Organic Chemistry, Marii Curie-Sklodowskiej University Lublin –Poland 8 April 2013 included on the frame of the conferences promoted by the Polish Society of Chemistry
8. C. Santi **“Bio-Logic” Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry”** Invited Lecture at Department Of Chemistry, Adam Mickiewicz University POZNAŃ - Poland 25 March 2013 included on the frame of the conferences promoted by the Polish Society of Chemistry
9. C. Santi **“Bio-Logic” Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry”** Invited Lecture Invited Lectures at University of Lodz - Poland 22 March 2013 included on the frame of the conferences promoted by the Polish Society of Chemistry

10. C. Santi **"Bio-Logic" Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry**" Invited Lecture at Faculty of Chemistry, Wrocław University of Technology - Poland 15 March 2013
11. C. Santi **"Bio-Logic" Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry**" Invited Lecture at University Jan Dlugosz in Czestokowa Poland 13 March 2013
12. C. Santi **"Bio-Logic" Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry**" Invited Lecture at Polish National Academy of Science Lodz Poland 11 March 2013
13. C. Santi **"Bio-Logic" Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry**" Invited Lecture at University N. Copernicus of Torun Poland 8 March 2013
14. C. Santi **"Bio-Logic" Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry**" Invited Lecture at UFePEL Universidad Feral de Pelotas –Brazil -10th Dec 2012
15. C. Santi **"Bio-Logic" Reagents and Reactions: Organoselenium Compounds toward the Green Chemistry**" 4^o Encontro sobre Selênio e Telúrio Brasil - ESeTe IV – Torres Brazil 3-6 December 2012 (Invited Plenary Lecture)
16. C. Santi, **"Bioinspired and Metal Free Catalytic Oxidations: a "Bio-Logic" use of Organoselenium reagent in Green Chemistry"** Eurasia 12 Corfù, Greece 16-21 April 2012 (invited lecture)
17. C.Santi **"Catalisi "Bio-Logica": tra Green Chemistry e molecole biologicamente attive"** Facoltà di Farmacia Università di Urbino IT May, 2011 (invited lecture)
18. C. Santi, **"New Selenium containing Catalysts: a Bio-mimetic approach"** HALCHEM V (Halogen Chemistry) international conference - Santa Margherita di Pula IT, September 2010 (invited lecture)
19. C. Santi **"Mercato dei Farmaci e Diritti Umani"** 23-24 ottobre 2010 Roma Policlinico Universitario "Gemelli", Congresso internazionale per studenti e giovani professionisti dell'area biomedica - Sezione Etica della Ricerca (invited lecture)
20. C. Santi, **"Selenium Chemistry: Catalysis for Sustainability"** RICMD4 4th International Meeting On Molecular Chemistry and Development 24-27 November 2010 - Marrakech – Marocco (invited plenary lecture)
21. C. Santi **"Organoselenium Chemistry and Asymmetric Synthesis"** 03. July 2009 Cardiff University –UK (invited lecture)
22. C. Santi **"Selenium Chemistry: looking for sustainability"** 07. July 2009 Cardiff University –UK (invited lecture)

Oral communications

23. C. Santi*, C. Tidei, M. Tiecco **"Bio-inspired use of Selenocystine as catalyst for the oxidation of C-C double bond"** 1,6 Aug 2010 Oulu Finland, ICCST11 11th International Conference on Selenium and Tellurium (oral communication)
24. Battistelli, B.; Testaferri, L.; Tiecco, M.; Santi, C. **"PhSeZn-Halides: Bench Stable Selenolates For New "On Water" Reactions."** 13-17 June 2011, Gargnano (BS, Italy). The XXXVI edition of the "Attilio Corbella" Summer School on Organic Synthesis (oral communication)
25. Santi, C.; Di Lorenzo R.; Wirth, T.; Iwaoka, M., **"Selenocistina e derivati seleniorganici in processi di ossidazione "Bio-Logica" promossa da H₂O₂"**, 22-24 June 2011, Pavia (Italy), Chimica Verde, Chimica Sicura II Edizione (oral communication)
26. Santi, C.*; Tidei, C.; Scalera, C.; Incipini, L.; Marini, F.; Bagnoli, L.; Testaferri, L. **"Bioinspired Catalytic Oxidation Reactions in Water: Not Simply Green Chemistry"** XXXIV Convegno della Divisione di Chimica Organica "SCI 2012, Pavia": Pavia, 10-14 Settembre 2012.

27. Tidei, C.; Pitotti, I.; Bagnoli, L.; Marini, F.; Testaferri, L.; Santi, C. **"Eco-friendly Synthesis of vinyl selenides"** ICCST12– International Conference on the Chemistry of Selenium and Tellurium - July 22-26, 2013, Cardiff, Wales, United Kingdom

Poster Communications

28. G. Della Sala, A. Lattanzi, S. Santoro, C. Santi **"Highly Enantioselective Organocatalytic Desymmetrization of meso-Aziridines by Trialkylsilylchalcogenides"**, 5-10 Luglio 2009, Sorrento (NA), 23th Congresso Nazionale della Società Chimica Italiana.
29. P. Hoyosa, D. del Rio, C. Santi, J. V. Sinisterra, A. R. Alcántara **"Enzymatic Methodologies for the resolution of 1,2-diaryl-1,2-ethandiols: synthesis of optically active alpha-hydroxyketones"** 5-9 Luglio 2009, Berna, Biotrans 2009-Switzerland
30. S. Santoro, B. Battistelli, M. Tiecco, C. Santi, **"PhSeZnCl in nucleophilic vinylic substitution: reactivity and theoretical investigation"**, 31 Agosto – 4 Settembre 2009, Padova, International Congress "The Centenari"
31. B. Battistelli, S. Santoro, C. Santi, L. Testaferri, M. Tiecco **"Sintesi di seleniuri vinilici mediate dallo zinco"**, 12-14 Ottobre 2009, Pesaro, IX SAYCS.
32. M. C. Marcotullio, C. Santi, S. Genovese, M. Curini, **"Composition of the essential oils, supercritical CO₂ and hexane extracts of commiphora erythraea"** 6-9 September 2009 Savigliano IT, International Symposium on essential oils.
33. B. Battistelli, C. Santi, C. Tidei, M. Tiecco **"Zinc mediated Synthesis of Vinyl Selenides"** 1,6 Aug 2010 Oulu Finland, ICCST11 11th International Conference on Selenium and Tellurium
34. Dragone, M.V.; Scalera, C.; Incipini, L.; Battistelli, B.; Santi, C. **"Ciclofunzionalizzazioni di alchenoli ed acidi alchenoici promosse da H₂O₂."** 22-24 June 2011, Pavia (Italy), Chimica Verde, Chimica Sicura II Edizione. (poster communication)
35. Di Schino, L.; Antoszewska, A.; Battistelli, B.; Scianonski, J.; Santi, C. **"Sintesi one-pot di ossaziridine catalizzata da composti seleniorganici in soluzione acquosa di H₂O₂."** 22-24 June 2011, Pavia (Italy), Chimica Verde, Chimica Sicura II Edizione. (poster communication)
36. Santi, C.*; Battistelli, B.; Tidei, C.; Testaferri, L.; Tiecco, M. **"PhSeZn-Halides: Nucleophilic Reagents in "on water conditions"** Eurasia 2012, Corfù, Greece, 16-21 April 2012.
37. Santi, C.; Galli, F.; Piroddi, M.; Tidei, C.* **"Thiols Oxidation for the Evaluation of Gpx-like Activity"** ISOCS-25, International Symposium on the Organic Chemistry of Sulfur, Częstochowa, Poland 24-29 June 2012
38. Legnaioli, S.; Piroddi, M.; Tidei, C.; Santi, C.; Galli, F. **"PhSeZnCl: a new seleno-organic compound with glutathione peroxidase-like activity"** The 16th biennial meeting for the Society for Free Radical Research International (SFRRRI), London, UK, 6-9 September 2012
39. Legnaioli, S.; Piroddi, M.; Tidei, C.; Santi, C.; Galli, F. **"Targeting the GSTP-dependent control of cell kinases and apoptosis with PhSeZnCl: a new seleno-organic drug"** The 16th biennial meeting for the Society for Free Radical Research International (SFRRRI), London, UK, 6-9 September 2012
40. Battistelli, B.; Sternativo, S.; Bagnoli, L.; Santi, C.; Testaferri, L.; Marini, F. **"Synthesis of Spirocyclic compounds via Organocatalytic Michael Addition to Vinyl Selenones"** XXXIV Convegno della Divisione di Chimica Organica "SCI 2012, Pavia": Pavia, 10-14 Settembre 2012

41. Pistilli, M.; Piroddi, M.; Galli, F.; Santi, C.; Giovagnoli, S. "**PhSeZnCl a Novel Selenium compound with GPx-mimetic activity: Formulation and in vitro Characterization**". New Frontiers in Living Cell Encapsulation, 7th ALtUN, 8-9 March, 2013 Perugia IT.
42. Simona Propersi, Michela Pistilli, Marta Piroddi, Francesco Galli, Claudio Santi, Stefano Giovagnoli **PhSeZnCl a novel selenium compound with GPx-mimetic activity: formulation and in vitro characterization** ICCST12– International Conference on the Chemistry of Selenium and Tellurium - July 22-26, 2013, Cardiff, Wales, United Kingdom
43. Elena Gabriele, Stella Bedont, Caterina Tidei, Marco Taddei, Riccardo Vivani, Claudio Santi **New efficient heterogeneous co-catalysts for selenium promoted oxidation of chalcogenides** ICCST12– International Conference on the Chemistry of Selenium and Tellurium - July 22-26, 2013, Cardiff, Wales, United Kingdom
44. Katja Berettoni, Francesca Mangiavacchi, Francesca Marini, Claudio Santi, Lorenzo Testaferri, Luana Bagnoli **Synthesis of Oxazino[4,3-a]indoles and pyrano[3,4-b]indoles by cascade addition-cyclization reactions of (1H-indol-2yl)methanols and Vinyl Selenones** ICCST12– International Conference on the Chemistry of Selenium and Tellurium - July 22-26, 2013, Cardiff, Wales, United Kingdom
45. Mangiavacchi, F.; DiSchino, L.; Filipponi, P.; Gioiello, A.; Santi, C. "**Translating batch selenium-catalyzed cyclizations into flow mode**" ICCST12– International Conference on the Chemistry of Selenium and Tellurium - July 22-26, 2013, Cardiff, Wales, United Kingdom
46. Rongoni E.; Incipini L.; Tidei, C.; Bartolini, D.; Sabatino, S.; Pietrella D.; Galli, F.; Santi, C. "**Antimicrobial and GPx-like activity of benzoate based diselenides**" ICCST12– International Conference on the Chemistry of Selenium and Tellurium - July 22-26, 2013, Cardiff, Wales, United Kingdom
47. Rongoni, E.; Donnadio, A.; Bastianini, M.; Nocchetti, M.; Vivani, R.; Zito, R.; Santi, C. "**Active films on polylactide and layered double hydroxides modified with selenium containing antimicrobial species**" ICCST12– International Conference on the Chemistry of Selenium and Tellurium - July 22-26, 2013, Cardiff, Wales, United Kingdom
48. Propersi S.; Ricciardella, L.; Tidei C.; Bagnoli, L.; Marini, F.; Testaferri, L.; Santi, C. "**Synthesis of Seleno- and Thio- esters in water and in solvent free conditions**" ICCST12– International Conference on the Chemistry of Selenium and Tellurium - July 22-26, 2013, Cardiff, Wales, United Kingdom
49. Sancineto, L.; Mariotti, A.; Tidei, C.; Bagnoli, L.; Marini, F.; Testaferri, L.; Tabarrini, O.; Santi C. "**Design and synthesis of new biologically active diselenides**" ICCST12– International Conference on the Chemistry of Selenium and Tellurium - July 22-26, 2013, Cardiff, Wales, United Kingdom

Didactic activity A.A. 2013-2014

- Course of **Physical Methods in Organic Chemistry** CTF (9 CFU)
- Course of **Chemistry of Organic Natural Substances** PHARMACY (9 CFU)
- **Visiting Professor** Czeszokowa University PL (70 h)