

# *Curriculum Vitae et Studiorum*

## **Dr. STEFANO SERRA**

**Born:** 1970 (Italy)

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**Work:** I.C.R.M (Istituto di Chimica del Riconoscimento Molecolare), Via Mancinelli 7, 20131 Milano, Italy

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### **EDUCATION:**

March 1995: **Laurea in Chimica** (110/110)  
(**Master's degree in Chemistry**) Università degli Studi di Pavia

December 2000: **Dottore di ricerca in chimica industriale**  
(**Ph. D. in Industrial Chemistry**) Università di Milano

## RESEARCH ACTIVITY:

November 1993 – March 1995:	University of Pavia: researches in the field of natural product synthesis Degree in Chemistry, working on the synthesis of the saponaceolides, a class of antitumor triterpenes.
June 1996 – May 1997:	Politecnico di Milano: one year grant on the study of “New synthetic methods for the preparation of $\beta$ -lactamic antibiotics”
November 1997 – November 2000:	Università di Milano-Politecnico di Milano: Ph. D. fellowship on the study of ‘New synthetic insights on the preparation of flavour and fragrances’
December 2000 – December 2001:	Politecnico di Milano: one year research program named ‘Aromi e Fragranze’ devoted to the study of new syntheses of flavour and fragrances.
December 2001 – Nowadays	Ricercatore C.N.R. (Research Scientist at National Research Council, permanent position) I.C.R.M (Istituto di Chimica del Riconoscimento Molecolare); Via L. Mancinelli 7, 20131 Milano, Italy

## RESEARCH INTERESTS AND SCIENTIFIC ACTIVITY:

- Stereoselective synthesis
- Synthesis of natural products
- Synthesis of flavour and fragrances
- Biogenesis of natural flavours
- Enzymes in organic synthesis
- Biotransformations
- Enantioselective synthesis of APIs
- Enantioselective synthesis of chiral compounds
- Development of new synthetic methods
- Determination of flavours origin by mean of stable isotope analysis

## PUBLICATIONS (international peer reviewed journals):

- 1) Lipase mediated resolution of cis-and trans-linalool oxide (pyranoid). Stefano Serra\*, Davide De Simeis, Elisabetta Brenna; *Journal of Molecular Catalysis B: Enzymatic*, **2017**, *in press*; doi: doi.org/10.1016/j.molcatb.2017.03.004.
- 2) Enantioselective enzymatic resolution of racemic alcohols by lipases in green organic solvents. Abderahmane Belafriekh, Francesco Secundo\*, Stefano Serra, Zeineddine Djeghaba; *Tetrahedron: Asymmetry*, **2017**, 28, 473–478; doi: doi.org/10.1016/j.tetasy.2017.02.004. (ISSN: 0957-4166)
- 3) Final Demonstration of the Co-Identity of Lipiarmycin A3 and Tiacumicin B (Fidaxomicin) through Single Crystal X-ray Analysis. Stefano Serra\*, Luciana Malpezzi, Angelo Bedeschi, Claudio Fuganti, Piera Fonte; *Antibiotics*, **2017**, 6(1), 7; doi:10.3390/antibiotics6010007. (ISSN 2079-6382)
- 4) The Co-identity of Lipiarmycin A3 and Tiacumicin B. Angelo Bedeschi, Piera Fonte, Giovanni Fronza, Claudio Fuganti, Stefano Serra\*; *Nat. Prod. Commun.*, **2016**, 11, 569–572. (ISSN: 1934-578X)
- 5) A Study on the Lipase-catalysed Acylation of 6,7-Dihydroxy-linalool. Stefano Serra\*, Davide De Simeis; *Nat. Prod. Commun.*, **2016**, 11, 1217–1220. (ISSN: 1934-578X)
- 6) MnO<sub>2</sub>/TBHP: A Versatile and User - Friendly Combination of Reagents for the Oxidation of Allylic and Benzylic Methylene Functional Groups. Stefano Serra\*; *Eur. J. Org. Chem.*, **2015**, 6472–6478; doi: 10.1002/ejoc.201500829. (ISSN: 1434-193X)
- 7) Recent Advances in the Synthesis of Carotenoid-Derived Flavours and Fragrances. Stefano Serra\*; *Molecules*, **2015**, 20, 12817–12840; doi:10.3390/molecules200712817. (ISSN: 1420-3049)
- 8) Stereoselective Synthesis of 2,15-Dihydroxycalamenene and 2-Methoxycalamenene. Determination of the Configuration of Natural 2,15-Dihydroxycalamenene. Stefano Serra\*; *Nat. Prod. Commun.*, **2015**, 10, 1337–1339. (ISSN: 1934-578X)
- 9) A new chemo-enzymatic approach to the stereoselective synthesis of the flavors tetrahydroactinidiolide and dihydroactinidiolide. Stefano Serra\*, Omar Piccioni; *Tetrahedron: Asymmetry*, **2015**, 26, 584–592; doi: 10.1016/j.tetasy.2015.04.003 (ISSN: 0957-4166)
- 10) First Enantioselective Synthesis of Marine Diterpene Ambliol-A. Stefano Serra\*, Veronica Lissoni; *Eur. J. Org. Chem.*, **2015**, 2226–2234; doi:10.1002/ejoc.201403610 (ISSN: 1434-193X)
- 11) Enzyme-mediated synthesis of sesquiterpenes. Stefano Serra\*; *Nat. Prod. Commun.*, **2015**, 10, 157–166. (ISSN: 1934-578X)
- 12) Preparation and use of enantioenriched 2-aryl-propylsulfonylbenzene derivatives as valuable building blocks for the enantioselective synthesis of bisabolane sesquiterpenes. Stefano Serra\*; *Tetrahedron: Asymmetry*, **2014**, 25, 1561–1572; doi: dx.doi.org/10.1016/j.tetasy.2014.10.016 (ISSN: 0957-4166)
- 13) *p*-Menthandiols-vanillin acetals: synthesis and study of their chemo-sensorial properties. Stefano Serra\*, Alessandra A. Cominetti, Francesco Gatti, Davide Lavanga, Gianluca Ottolina; *Flavour Fragr. J.*, **2014**, 29, 121–130; doi:10.1002/ffj.3187 (ISSN: 0882-5734).
- 14) Use of (*S*)-*trans*-gamma-Monocyclofarnesol as a Useful Chiral Building Block for the Stereoselective Synthesis of Diterpenic Natural Products. Stefano Serra\*, Alessandra A. Cominetti, Veronica Lissoni; *Nat. Prod. Commun.*, **2014**, 9, 329–335. (ISSN: 1934-578X)
- 15) A General Synthetic Approach to Hydroquinone Meroterpenoids: Stereoselective Synthesis of (+)-(*S*)-Metachromin V and Alliodorol. Stefano Serra\*, Alessandra A. Cominetti, Veronica Lissoni; *Nat. Prod. Commun.*, **2014**, 9, 303–308. (ISSN: 1934-578X)

- 16) An Expedient Synthesis of Linden Ether. Stefano Serra\*, Alessandra A. Cominetti; *Nat. Prod. Commun.*, **2014**, 9, 293–296. (ISSN: 1934-578X)
- 17) The Co-identity of Lipiarmycin A3 and Tiacumicin B. Angelo Bedeschi, Piera Fonte, Giovanni Fronza, Claudio Fuganti, Stefano Serra\*; *Nat. Prod. Commun.*, **2014**, 9, 237–240. (ISSN: 1934-578X)
- 18) A divergent and stereoselective approach to phenolic 1,7-dihydroxy-bisabolane sesquiterpenes: asymmetric total synthesis of (+)-curcutetraol, (+)-sydonol, (+)-sydonic acid, and (+)-7-O-methylsydonic acid. Stefano Serra\*, Alessandra A. Cominetti; *Tetrahedron: Asymmetry*, **2013**, 24, 1110–1116. doi: org/10.1016/j.tetasy.2013.07.011 (ISSN: 0957-4166)
- 19) Enantioselective Synthesis of Natural Trinorsesquiterpene Tetralones by Chemo-enzymatic Approaches. Stefano Serra\*; *Nat. Prod. Commun.*, **2013**, 8, 863–868. (ISSN: 1934-578X)
- 20) An expedient preparation of enantio-enriched ambergris odorants starting from commercial ionone alpha. Stefano Serra\*; *Flavour Fragr. J.*, **2013**, 28, 46–52. doi: 10.1002/ffj.3126 (ISSN: 0882-5734)
- 21) A Practical, Enantiospecific Synthesis of (*S*)-*trans*-gamma-Monocyclofarnesol. Stefano Serra\*; *Nat. Prod. Commun.*, **2012**, 7, 1569–1562. (ISSN: 1934-578X)
- 22) Unambiguous Characterization of the Sesquiterpene (*7R,9E*)-1,2,11-Trihydroxy-1,3,5,9-bisabolatetraene through Its Enantioselective Synthesis. Stefano Serra\*, Giovanni Fronza; *Eur. J. Org. Chem.*, **2012**, 4838-4843. doi: 10.1002/ejoc.201200620 (ISSN: 1434-193X)
- 23) Stereochemical Outcome of the Biocatalysed Reduction of Activated Tetrasubstituted Olefins by Old Yellow Enzymes 1-3. Elisabetta Brenna\*, Francesco G. Gatti, Daniela Monti, Fabio Parmeggiani, Stefano Serra; *Adv. Synth. Catal.*, **2012**, 354, 105-112. doi: org/10.1002/adsc.201100504. (ISSN: 1615-4150)
- 24) Enantioselective Synthesis of the Bisabolane Sesquiterpene (+)-1-Hydroxy-1,3,5-bisabolatrien-10-one and Revision of its Absolute Configuration. Stefano Serra\*; *Nat. Prod. Commun.*, **2012**, 7, 455–458. (ISSN: 1934-578X)
- 25) Chemoenzymatic preparation of the *p*-menth-1,5-dien-9-ol stereoisomers and their use in the enantiospecific synthesis of natural *p*-menthane monoterpenes. Stefano Serra\*, Igor Nobile; *Tetrahedron: Asymmetry*, **2011**, 22, 1455–1463. doi: 10.1016/j.tetasy.2011.07.014 (ISSN: 0957-4166)
- 26) Biocatalytic Methods for the Synthesis of Enantioenriched Odor Active Compounds. Elisabetta Brenna\*, Claudio Fuganti, Francesco G. Gatti, and Stefano Serra; *Chem. Rev.*, **2011**, 111, 4036–4072. doi: 10.1021/cr100289r (ISSN: 0009-2665)
- 27) Lipase-mediated resolution of substituted 2-aryl-propanols: application to the enantioselective synthesis of phenolic sesquiterpenes. Stefano Serra\*; *Tetrahedron: Asymmetry*, **2011**, 22, 619-628. doi: org/10.1016/j.tetasy.2011.03.012 (ISSN: 0957-4166)
- 28) Baker's Yeast Reduction of  $\beta$ -Hydroxy Ketones. Daniela Acetti, Elisabetta Brenna\*, Claudio Fuganti, Francesco G. Gatti, Stefano Serra; *Eur. J. Org. Chem.*, **2010**, 142-151. doi: 10.1002/ejoc.200901006 (ISSN: 1434-193X)
- 29) Enzyme-catalysed approach to the preparation of triazole antifungals: synthesis of (–)-genaconazole. Daniela Acetti, Elisabetta Brenna\*, Claudio Fuganti, Francesco G. Gatti, Stefano Serra; *Tetrahedron: Asymmetry*, **2009**, 20, 2413-2420. doi: org/10.1016/j.tetasy.2009.09.024 (ISSN: 0957-4166)
- 30) Stereochemical course of the baker's yeast-mediated reduction of the tri- and tetrasubstituted double bonds of substituted cinnamaldehydes. Giovanni Fronza, Claudio Fuganti, Stefano Serra\*; *Eur. J. Org. Chem.*, **2009**, 6160-6171. doi: 10.1002/ejoc.200900827 (ISSN: 1434-193X)
- 31) Lipase-mediated resolution of the hydroxy-cyclogeraniol isomers: application to the synthesis of the enantiomers of karahana lactone, karahana ether, crocusatin C and gamma-cyclogeraniol. Stefano Serra\*, Francesco G. Gatti, Claudio Fuganti; *Tetrahedron: Asymmetry*, **2009**, 20, 1319-1329. doi: org/10.1016/j.tetasy.2009.05.013 (ISSN: 0957-4166)

- 32) New Stereoselective Synthesis of Paeonilactone B. Francesco G. Gatti\*, Stefano Serra; *Synthesis*, **2009**, 1287-1290. doi: 10.1055/s-0028-1088039 (ISSN: 0039-7881)
- 33) Lipase-catalysed synthesis of homotartaric acid enantiomers. Daniela Acetti, Elisabetta Brenna\*, Claudio Fuganti, Francesco G. Gatti, Stefano Serra\*; *Tetrahedron Lett.*, **2009**, *50*, 2249-2251. doi: org/10.1016/j.tetlet.2009.02.192 (ISSN: 0040-4039)
- 34) 3-Alkyl-*p*-menthan-3-ol derivatives: synthesis and evaluation of their physiological cooling activity. Claudio Fuganti, Daniel Joulain, Francesco Maggioni, Luciana Malpezzi, Stefano Serra\*, Andrea Vecchione; *Tetrahedron: Asymmetry*, **2008**, *19*, 2425-2437. doi: org/10.1016/j.tetasy.2008.10.022 (ISSN: 0957-4166)
- 35) Synthesis, olfactory evaluation and determination of the absolute configuration of the  $\beta$ - and  $\gamma$ -Iralia isomers. Assem Barakat, Claudio Fuganti, Elisabetta Brenna, Stefano Serra\*; *Tetrahedron: Asymmetry*, **2008**, *19*, 2316-2322. doi: org/10.1016/j.tetasy.2008.09.028 (ISSN: 0957-4166)
- 36) Applications of biocatalysis in fragrance chemistry: the enantiomers of  $\alpha$ -,  $\beta$ -, and  $\gamma$ -irones. Elisabetta Brenna\*, Claudio Fuganti, Stefano Serra; *Chem. Soc. Rev.*, **2008**, *37*, 2443-2451. doi: 10.1039/B801557K (ISSN: 0306-0012)
- 37) Synthesis of L- and D-4,6-Dideoxyhexoses and 4,6-Dideoxy-C-phenylglycosides from Enzyme-Generated Products. Daniela Acetti, Elisabetta Brenna\*, Claudio Fuganti, Francesco G. Gatti, Luciana Malpezzi, Stefano Serra; *Eur. J. Org. Chem.*, **2008**, 5125-5134. doi: 10.1002/ejoc.200800662 (ISSN: 1434-193X)
- 38) A chemoenzymatic, preparative synthesis of the isomeric forms of *p*-menth-1-en-9-ol: application to the synthesis of the isomeric forms of the cooling agent 1-hydroxy-2,9-cineole. Stefano Serra\*, Claudio Fuganti, Francesco G. Gatti; *Eur. J. Org. Chem.*, **2008**, 1031-1037. doi: 10.1002/ejoc.200701010 (ISSN: 1434-193X)
- 39) Impurities of tazarotene: isolation and structural characterization. Elisabetta Brenna\*, Samuele Frigoli, Giovanni Fronza, Claudio Fuganti, Stefano Serra; *J. Pharm. Biomed. Anal.*, **2008**, *46*, 574-576. doi: org/10.1016/j.jpba.2007.11.004 (ISSN: 0731-7085)
- 40) Synthesis and olfactory evaluation of all stereoisomers of the fragrance Nectaryl®. Elisabetta Brenna, Claudio Fuganti, Francesco G. Gatti\*, Luciana Malpezzi, Stefano Serra; *Tetrahedron: Asymmetry*, **2008**, *19*, 800-807. doi: org/10.1016/j.tetasy.2008.03.011 (ISSN: 0957-4166)
- 41) Two easy photochemical methods for the conversion of commercial ionone alpha into regioisomerically enriched  $\gamma$ -ionone and  $\gamma$ -dihydroionone. Stefano Serra\*, Claudio Fuganti, Elisabetta Brenna; *Flavour Fragr. J.*, **2007**, *22*, 505-511. doi: 10.1002/ffj.1832 (ISSN: 0882-5734)
- 42) Chemoenzymatic resolution of *cis*- and *trans*-3,6-dihydroxy- $\alpha$ -ionone. Synthesis of the enantiomeric forms of dehydrovomifoliol and 8,9-dehydrotheaspirone. Stefano Serra\*, Assem Barakat, Claudio Fuganti; *Tetrahedron: Asymmetry*, **2007**, *18*, 2573-2580. doi: org/10.1016/j.tetasy.2007.10.014 (ISSN: 0957-4166)
- 43) Recent advances in the benzannulation of substituted 3-alkoxycarbonyl-3,5-hexadienoic acids and 3-alkoxycarbonylhex-3-en-5-ynoic acids to polysubstituted aromatics. Stefano Serra\*, Claudio Fuganti, Elisabetta Brenna; *Chem. Eur. J.*, **2007**, *13*, 6782-6791. doi: 10.1002/chem.200700735 (ISSN: 0947-6539)
- 44) A general method for the synthesis of the most powerful naturally occurring Maillard flavors. Claudio Fuganti, Francesco G. Gatti\*, Stefano Serra; *Tetrahedron*, **2007**, *63*, 4762-4767. doi: org/10.1016/j.tet.2007.03.089 (ISSN: 0040-4020)
- 45) The enantiomers of Iralia®: preparation and odour evaluation. Agnese Abate, Elisabetta Brenna\*, Claudio Fuganti, Luciana Malpezzi, Stefano Serra; *Tetrahedron: Asymmetry*, **2007**, *18*, 1145-1153. doi: org/10.1016/j.tetasy.2007.04.022 (ISSN: 0957-4166)
- 46) New synthetic approach to atypical retinoids: application of a versatile annulation procedure. Elisabetta Brenna\*, Claudio Fuganti, Giovanni Fronza, Francesco G. Gatti, Federico Sala, Stefano Serra\*; *Tetrahedron*, **2007**, *63*, 2351-2356. doi: org/10.1016/j.tet.2006.12.038 (ISSN: 0040-4020)

- 47) Enzymatic Approach to and Odor Description of the Twelve Enantiomerically Pure Isomers of Pelargone®. Agnese Abate, Maurizio Allievi, Elisabetta Brenna\*, Claudio Fuganti, Francesco G. Gatti, Stefano Serra; *Helv. Chim. Acta* **2006**, *89*, 177-189. doi: 10.1002/hlca.200690020 (ISSN: 0018-019X)
- 48) Synthesis, Olfactory Evaluation, and Determination of the Absolute Configuration of the 3,4-Didehydroionone Stereoisomers. Stefano Serra\*, Claudio Fuganti, Elisabetta Brenna; *Helv. Chim. Acta* **2006**, *89*, 1110-1122. doi: 10.1002/hlca.200690109 (ISSN: 0018-019X)
- 49) Synthesis of the enantiomeric forms of  $\alpha$ - and  $\gamma$ -damascone starting from commercial racemic  $\alpha$ -ionone. Stefano Serra\*, Claudio Fuganti; *Tetrahedron: Asymmetry*, **2006**, *17*, 1573–1580. doi: org/10.1016/j.tetasy.2006.05.024 (ISSN: 0957-4166)
- 50) Enzyme-mediated preparation of enantioenriched forms of *trans*- and *cis*-*p*-menthan-1,8-dien-5-ol. Elisabetta Brenna, Claudio Fuganti, Francesco G. Gatti\*, Marco Perego and Stefano Serra; *Tetrahedron: Asymmetry*, **2006**, *17*, 792-796. doi: org/10.1016/j.tetasy.2006.02.012 (ISSN: 0957-4166)
- 51) Enzymatic Approach to Enantiomerically Pure 5-Alken-2,4-diols and 4-Hydroxy-5-alken-2-ones: Application to the Synthesis of Chiral Synthons. Agnese Abate, Elisabetta Brenna\*, Alessia Costantini, Claudio Fuganti, Francesco G. Gatti, Luciana Malpezzi, and Stefano Serra; *J. Org. Chem.* **2006**, *71*, 5228-5240. doi: 10.1021/jo060581w (ISSN: 0022-3263)
- 52) Stable isotope characterization of the ortho-oxygenated phenylpropanoids: Coumarin and melilotol. Elisabetta Brenna, Giovanni Fronza\*, Claudio Fuganti, Francesco G. Gatti, Valentina Grande, Stefano Serra, Claude Guillou, Fabiano Reniero, Francesca Serra; *J. Agric. Food Chem.*, **2005**, *53*, 9383-9388. doi: 10.1021/jf0518507 (ISSN: 0021-8561)
- 53) A practical and efficient process for the preparation of tazarotene. Samuele Frigoli, Claudio Fuganti, Luciana Malpezzi, Stefano Serra\*; *Org. Process Res. Dev.*, **2005**, *9*, 646-650. doi: 10.1021/Op050080x (ISSN: 1083-6160)
- 54) Aromatic annulation on the *p*-menthane monoterpenes: enantiospecific synthesis of the *trans* and *cis* isomers of calamenene and 8-hydroxycalamenene. Stefano Serra\*, Claudio Fuganti; *Tetrahedron Lett.*, **2005**, *46*, 4769-4772. doi: org/10.1016/j.tetlet.2005.05.037 (ISSN: 0040-4039)
- 55) Synthesis and olfactory evaluation of the enantiomerically enriched forms of 7,11-epoxymegastigma-5(6)-en-9-one and 7,11-epoxymegastigma-5(6)-en-9-ols isomers, identified in *Passiflora edulis*. Elisabetta Brenna, Claudio Fuganti, Stefano Serra\*; *Tetrahedron: Asymmetry*, **2005**, *16*, 1699-1704. doi: org/10.1016/j.tetasy.2005.02.021 (ISSN: 0957-4166)
- 56) Biocatalytic preparation of natural flavours and fragrances. Stefano Serra\*, Claudio Fuganti, Elisabetta Brenna; *Trends Biotechnol.*, **2005**, *23*, 193-198. doi: 10.1016/j.tibtech.2005.02.003 (ISSN: 0167-7799)
- 57) A new preparative route to substituted carbazoles by benzannulation. Stefano Serra\*, Claudio Fuganti; *Synlett*, **2005**, 809-812. doi: 10.1055/s-2005-863741 (ISSN: 0936-5214)
- 58) Chirality and fragrance chemistry: Stereoisomers of the commercial chiral odorants Muguesia and Pamplefleure. Agnese Abate, Elisabetta Brenna\*, Claudio Fuganti, Francesco G. Gatti, Tommaso Giovenzana, Luciana Malpezzi, Stefano Serra; *J. Org. Chem.*, **2005**, *70*, 1281-1290. doi: 10.1021/jo048445j (ISSN: 0022-3263)
- 59) Differentiation of extractive and synthetic salicin. The <sup>2</sup>H aromatic pattern of natural 2-hydroxybenzyl alcohol. Elisabetta Brenna, Giovanni Fronza\*, Claudio Fuganti, Francesco G. Gatti, Matteo Pinciroli, Stefano Serra; *J. Agric. Food Chem.*, **2004**, *52*, 7747-7751. doi: 10.1021/jf0489320 (ISSN: 0021-8561)
- 60) Odor and (bio)diversity: Single enantiomers of chiral fragrant substances. Agnese Abate, Elisabetta Brenna\*, Claudio Fuganti, Francesco G. Gatti, Stefano Serra; *Chem. Biodivers.*, **2004**, *1*, 1888-1898. doi: 10.1002/cbdv.200490145 (ISSN: 1612-1872)
- 61) Lipase-catalysed preparation of enantiomerically enriched odorants. Agnese Abate, Elisabetta Brenna\*, Claudio Fuganti, Francesco G. Gatti, Stefano Serra; *J. Mol. Catal. B-enzym.*, **2004**, *32*, 33-51. doi: org/10.1016/j.molcatb.2004.09.008 (ISSN: 1381-1177)

- 62) Stereochemical aspects of the bioreduction of the conjugated double bond of perillaldehyde. Giovanni Fronza, Claudio Fuganti, Matteo Pincioli, Stefano Serra\*; *Tetrahedron: Asymmetry*, **2004**, *15*, 3073-3077. doi: org/10.1016/j.tetasy.2004.08.025 (ISSN: 0957-4166)
- 63) Natural *p*-menthene monoterpenes: Synthesis of the enantiomeric forms of wine lactone, epwine lactone, dill ether, and epidill ether starting from a common intermediate. Stefano Serra\*, Claudio Fuganti; *Helv. Chim. Acta*, **2004**, *87*, 2100-2109. doi: 10.1002/hlca.200490189 (ISSN: 0018-019X)
- 64) Enzyme-mediated synthesis of new 1,3-dioxane-odorants related to Floropal®. Agnese Abate, Elisabetta Brenna\*, Claudio Fuganti, Stefano Serra; *Flavour Fragr. J.*, **2004**, *19*, 382-393. doi: 10.1002/ffj.1372 (ISSN: 0882-5734)
- 65) Changing the odor properties of commercial mixtures of alpha-irones by simple chemical transformations. Elisabetta Brenna, Claudio Fuganti, Stefano Serra; *J. Essent. Oil Res.*, **2004**, *16*, 339-341. doi: org/10.1080/10412905.2004.9698736 (ISSN: 1041-2905)
- 66) Preparation of the Enantiomerically Enriched Isomers of the Odorous Cyclic Ethers Clarycet®, Florol®, and Rhubafuran® by Enzymatic Catalysis. Agnese Abate, Elisabetta Brenna\*, Giovanni Fronza, Claudio Fuganti, Francesco G. Gatti, Stefano Serra, Enrica Zardoni; *Helv. Chim. Acta*, **2004**, *87*, 765-780. doi: 10.1002/hlca.200490075 (ISSN: 0018-019X)
- 67) Establishing the synthetic origin of amphetamines by <sup>2</sup>H NMR spectroscopy. Silvia Armellin, Elisabetta Brenna\*, Giovanni Fronza\*, Claudio Fuganti, Matteo Pincioli, Stefano Serra; *Analyst*, **2004**, *129*, 130-133. doi: 10.1039/B308749B (ISSN: 0003-2654)
- 68) Enantioselective synthesis of cis-7-methoxy-calamenene via Claisen rearrangement of an enzymatically resolved allyl alcohol. Elisabetta Brenna, Claudia Dei Negri, Claudio Fuganti, Francesco G. Gatti\*, Stefano Serra; *Tetrahedron: Asymmetry*, **2004**, *15*, 335-340. doi: doi.org/10.1016/j.tetasy.2003.11.021 (ISSN: 0957-4166)
- 69) Lipase-catalyzed resolution of *p*-menthan-3-ols monoterpenes: preparation of the enantiomer-enriched forms of menthol, isopulegol, *trans*- and *cis*-piperitol, and *cis*-isopiperitenol. Stefano Serra\*, Elisabetta Brenna, Claudio Fuganti, Francesco Maggioni; *Tetrahedron: Asymmetry*, **2003**, *14*, 3313-3319. doi: org/10.1016/j.tetasy.2003.08.010 (ISSN: 0957-4166)
- 70) A New Preparative Route to Substituted Dibenzofurans by Benzannulation Reaction. An Application to the Synthesis of Cannabifuran. Stefano Serra\*, Claudio Fuganti; *Synlett*, **2003**, 2005-2008. doi: 10.1055/s-2003-42037, (ISSN: 0936-5214)
- 71) From commercial racemic fragrances to odour active enantiopure compounds: the ten isomers of irone. Elisabetta Brenna, Claudio Fuganti\*, Stefano Serra; *C. R. Chimie*, **2003**, *6*, 529-546. doi: org/10.1016/S1631-0748(03)00087-0 (ISSN: 1631-0748)
- 72) Enantioselective synthesis of benzylic stereocentres via Claisen rearrangement of enantiomerically pure allylic alcohols: preparation of (*R*)- and (*S*)-3-methyl-2-phenylbutylamine. Elisabetta Brenna\*, Claudio Fuganti, Francesco G. Gatti, Massimo Passoni, Stefano Serra; *Tetrahedron: Asymmetry*, **2003**, *14*, 2401-2406. doi: 10.1016/S0957-4166(03)00454-3 (ISSN: 0957-4166)
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Volume 46 (2015). ISBN: 978-0-444-63462-7

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## PATENTS:

1) Patent n° **WO 2016/188997 A1**: ‘Process for the preparation of enzalutamide’

Authors: Frigoli Samuele, Longoni Davide, Alpegiani Marco, Fuganti Claudio, Serra Stefano.

Date of filing 24/05/2016.

Applicant: OLON S.p.a. 20090, Rodano (Italy)

2) Patent n° **EP 2813484 A1** : ‘A process for the synthesis of nootkatone’

Author: Serra, Stefano.

Date of filing 11/06/2014.

Applicant: INT Trading S.r.l. 21017, Samarate (Italy)

3) Patent n° **EP 1700855 A1** : ‘A Process for the Preparation of Tazarotene’

Authors: Frigoli Samuele, Fuganti Claudio, Serra Stefano, Pizzocarò Francesco, Bedeschi Angelo, Tubertini Paolo.

Date of filing 07/03/2006.

Applicant: SOLMAG spa 26837, Mulazzano (Italy)

4) Patent n° **WO 2005/121058 A1**: ‘P-Menthan-(3) ol Alkylated Derivatives and Use Thereof as Refreshing Agents’

Autori: Joulain Daniel, Fuganti Claudio, Serra Stefano, Vecchione Andrea.

Date of filing 28/04/2005

Applicant: ROBERTET S.A., 06333, Grasse Cedex (France) also published as **FR 2870235 A1**

## AWARDS:

- Recipient of the '**Gerald Blunden Award 2015**'. Awarded for the best paper published in '*Natural Product Communications*' during the year **2014**. (<http://www.naturalproduct.us/AwardArchivepage.asp>)

## EDITORIAL AND PEER REVIEW RESPONSIBILITIES:

### ➤ **Guest Editor**

'**Guest Editor**' for *Natural Product Communications* (ISSN: 1934-578X).

Thematic issue: "**Bioactive terpenes – From isolation to chemical synthesis**' *Natural Product Communication*, volume 9, number 3 (March 2014).

### ➤ **Advisory Editorial Board Member**

01/01/2014 – Nowadays: **Advisory Editorial Board Member** of the journal *Natural Product Communications* (ISSN: 1934-578X).

### ➤ **Reviewer for the following institutions**

- **Agenzia Nazionale di Valutazione del Sistema Universitario e della Ricerca (ANVUR) – Years 2012 and 2016**
- **Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR) - Years 2011 and 2013**
- **National Center of Science and Technology Evaluation (Republic of Kazakhstan) – Years 2012 and 2014**
- **Austrian Science Fund (FWF) - Year 2007**

### ➤ **Reviewer for the following international journals**

- **Advanced Synthesis & Catalysis** (ISSN: 1615-4169)
- **Applied Biochemistry and Biotechnology** (ISSN: 1559-0291)
- **Applied Microbiology and Biotechnology** (ISSN: 1432-0614)
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- **Biocatalysis and Biotransformation** (ISSN: 1024-2422)
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