

PERSONAL INFORMATION

Family name, First name: Sacchetti Alessandro

Date of birth: 09/01/1972

Nationality: Italian

Researcher unique identifier(s): ORCID identifier 0000-0002-4830-0825

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EDUCATION

2002 PhD in Chemical Science at University of Milan

1998 Master Degree in Chemistry at University of Milan

CURRENT POSITION

2015-present Associate Professor at Polytechnic of Milan (Department of Chemistry)

PREVIOUS POSITIONS

2008-2015 Researcher at Polytechnic of Milan (Department of Chemistry)

2007-2008 Collaboration with Indena Spa

2006-2007 Collaboration with Sanofi Spa

2002-2006 Post-doc position at the department of chemistry, university of Milan

Placements at national and international laboratories

2002 Visiting PhD student at the University of Barcelona (department of Chemistry)

PARTICIPATION IN RESEARCH PROJECTS AS TEAM MEMBER

European Commission

- 2008-2011 Intenant project (ID 214129), FP7 program
- 2017-present Foodtech Project - Regione Lombardia POR-FESR program
- 2017-present Vipcat project - Regione Lombardia POR-FESR program

COLLABORATION WITH INDUSTRY

2013-2018 MacDermid-Enthone Spa

2017-2018 Akzo-Nobel Spa

2017-2018 Renato Corti Spa

REVIEWER'S ACTIVITY

- Organic and Biomolecular Chemistry
- Journal of Organic Chemistry
- Organic Letters
- Chemical Review
- Tetrahedron
- ACS Combinatorial Science
- Tetrahedron Letters

SUPERVISION OF GRADUATE STUDENTS

Chemical Engineering First Level Degree

2010

Rossi Francesco, Ligouras Maria Cristina, Ghribi Marouane, Abbiati Roberto Andrea,

2011

Romano Isabella, Aloe Rossella, Visconti Michela, Tarentini Ferdinando, Folloni Marco Luciano, Milioto Danilo, De Pieri Matteo

2012

Boellisi Gian Marco Nikita, Simone Martina, Morena Irene Teresa, Ciresa Patrizia, Stefani Alessandro Stefano, Cassiano Chiara

2013

Ludiro Fabio, Muhammad Arslan Arshad, Rauhe Michael, Mancuso Antonio, Pigoli Lorenzo, Annichini Alice, Vizzi Mattia, Porta Alessandro, Tentori Francesca

2014

Costanzo Stefano, Rizzo Cristina, Villani Andrea, Perrotta Daniel, Stefanini Laura, Rebellato Erica, Dragotto Susanna, Croci Giulia, Pozzi Sara

2015

Testa Dafne, Bramini Matteo, Trapani Alessandro, Allocco Federico, Cibin Davide, Bellocchio Luca, Balestrini Alessio

2016

Flematti Camilla

2017

Bigoni Jacopo, Azzopardo Alessia, Elyas Maria, Toko Carine Annick, Benedini Lidia

2018

Silvia Perego, Greta Grandi

Chemical Engineering Master Degree

2013

Mauri Emanuele

2014

Toson Federico, Rodigari Cesare, Romano Isabella, Folloni Marco Luciano, Pesa Roberto

2016

Nascimbene Niccolò, Barbagli Michele, Azzolini Giulia

Chemical and Pharmaceutical Technology

2014

Marcella Moretti

2015

Arianna Rossetti

2016

Stefano Landoni, Marta Gatti

2017

Marta Bonfanti, Erika Minervini, Anna Morandini

2018

Edoardo Fumagalli

PhD in Chemical Engineering

2018 Arianna Rossetti

TEACHING ACTIVITIES

2017-2019 Organic Chemistry – Chemical Engineering

2016-2017 Homogeneous catalysis in organic chemistry - Chemical Engineering;
Fundamental of Chemistry – Energy, Mechanical and Space Engineering

2014-2016 Homogeneous catalysis in organic chemistry - Chemical Engineering;
Fundamental of Chemistry – Building Engineering

2010-2014 Homogeneous catalysis in organic chemistry

2009-2010 Fundamental of Chemistry – Information Engineering

Track Record

PUBLICATIONS

Authored and co-authored of 71 papers in peer-reviewed journals. Scopus H-index = 22. Total citations excluding self-citations = 971.

PUBLICATIONS IN PEER REVIEWED JOURNALS

(1)

Mauri, E.; Sacchetti, A.; Vicario, N.; Peruzzotti-Jametti, L.; Rossi, F.; Pluchino, S. Evaluation of RGD Functionalization in Hybrid Hydrogels as 3D Neural Stem Cell Culture Systems. *Biomaterials Science* **2018**, *6* (3), 501–510.

(2)

Mauri, E.; Micotti, E.; Rossetti, A.; Melone, L.; Papa, S.; Azzolini, G.; Rimondo, S.; Veglianese, P.; Punta, C.; Rossi, F.; et al. Microwave-Assisted Synthesis of TEMPO-Labeled Hydrogels Traceable with MRI. *Soft Matter* **2018**, *14* (4), 558–565.

(3)

Bellucci, M. C.; Frigerio, M.; Castellano, C.; Meneghetti, F.; Sacchetti, A.; Volonterio, A. Design, Synthesis, and Conformational Analysis of 3-: Cyclo -Butylcarbamoyl Hydantoins as Novel Hydrogen Bond Driven Universal Peptidomimetics. *Organic and Biomolecular Chemistry* **2018**, *16* (4), 521–525.

(4)

Rossetti, A.; Sacchetti, A.; Gatti, M.; Pugliese, A.; Roda, G. Rapid Access to Reverse-Turn Peptidomimetics by a Three-Component Ugi Reaction of 3,4-Dihydroisoquinoline. *Chemistry of Heterocyclic Compounds* **2017**, *53* (11), 1214–1219.

(5)

Rossetti, A.; Sacchetti, A.; Bonfanti, M.; Roda, G.; Rainoldi, G.; Silvani, A. Biocatalysed Olefin Reduction of 3-Alkylidene Oxindoles by Baker's Yeast. *Tetrahedron* **2017**, *73* (31), 4584–4590.

(6)

Mauri, E.; Veglianese, P.; Papa, S.; Mariani, A.; De Paola, M.; Rigamonti, R.; Chincarini, G. M. F.; Vismara, I.; Rimondo, S.; Sacchetti, A.; et al. Double Conjugated Nanogels for Selective Intracellular Drug Delivery. *RSC Advances* **2017**, *7* (48), 30345–30356.

(7)

Mauri, E.; Veglianese, P.; Papa, S.; Mariani, A.; De Paola, M.; Rigamonti, R.; Chincarini, G. M. F.; Rimondo, S.; Sacchetti, A.; Rossi, F. Chemoselective Functionalization of Nanogels for Microglia Treatment. *European Polymer Journal* **2017**, *94*, 143–151.

(8)

Mauri, E.; Chincarini, G. M. F.; Rigamonti, R.; Magagnin, L.; Sacchetti, A.; Rossi, F. Modulation of Electrostatic Interactions to Improve Controlled Drug Delivery from Nanogels. *Materials Science and Engineering C* **2017**, *72*, 308–315.

(9)

Stucchi, M.; Lesma, G.; Meneghetti, F.; Rainoldi, G.; Sacchetti, A.; Silvani, A. Organocatalytic Asymmetric Biginelli-like Reaction Involving Isatin. *Journal of Organic Chemistry* **2016**, *81* (5), 1877–1884.

(10)

Sacchetti, A.; Rossi, F.; Rossetti, A.; Pesa, R.; Mauri, E. Hydrogel Supported Chiral Imidazolidinone for Organocatalytic Enantioselective Reduction of Olefins in Water. *Chemical Papers* **2016**, *70* (4), 436–444.

(11)

Rainoldi, G.; Sacchetti, A.; Silvani, A.; Lesma, G. Organocatalytic Vinylogous Mannich Reaction of Trimethylsilyloxyfuran with Isatin-Derived Benzhydryl-Ketimines. *Organic and Biomolecular Chemistry* **2016**, *14* (32), 7768–7776.

(12)

Mauri, E.; Sacchetti, A.; Rossi, F. The Synthesis of RGD-Functionalized Hydrogels as a Tool for Therapeutic Applications. *Journal of Visualized Experiments* **2016**, *2016* (116).

(13)

Mauri, E.; Rossi, F.; Sacchetti, A. Tunable Drug Delivery Using Chemoselective Functionalization of Hydrogels. *Materials Science and Engineering C* **2016**, *61*, 851–857.

(14)

Mauri, E.; Moroni, I.; Magagnin, L.; Masi, M.; Sacchetti, A.; Rossi, F. Comparison between Two Different Click Strategies to Synthesize Fluorescent Nanogels for Therapeutic Applications. *Reactive and Functional Polymers* **2016**, *105*, 35–44.

(15)

Castellano, C.; Sacchetti, A.; Meneghetti, F. Spectroscopic, Structural, and Computational Characterization of Three Bispidinone Derivatives, as Ligands for Enantioselective Metal Catalyzed Reactions. *Chirality* **2016**, *28* (4), 332–339.

(16)

Caron, I.; Rossi, F.; Papa, S.; Aloe, R.; Sculco, M.; Mauri, E.; Sacchetti, A.; Erba, E.; Panini, N.; Parazzi, V.; et al. A New Three Dimensional Biomimetic Hydrogel to Deliver Factors Secreted by Human Mesenchymal Stem Cells in Spinal Cord Injury. *Biomaterials* **2016**, *75*, 135–147.

(17)

Stucchi, M.; Gmeiner, P.; Huebner, H.; Rainoldi, G.; Sacchetti, A.; Silvani, A.; Lesma, G. Multicomponent Synthesis and Biological Evaluation of a Piperazine-Based Dopamine Receptor Ligand Library. *ACS Medicinal Chemistry Letters* **2015**, *6* (8), 882–887.

(18)

Mauri, E.; Rossi, F.; Sacchetti, A. Simple and Efficient Strategy to Synthesize PEG-Aldehyde Derivatives for Hydrazone Orthogonal Chemistry. *Polymers for Advanced Technologies* **2015**, *26* (12), 1456–1460.

(19)

Lesma, G.; Bassanini, I.; Bortolozzi, R.; Colletto, C.; Bai, R.; Hamel, E.; Meneghetti, F.; Rainoldi, G.; Stucchi, M.; Sacchetti, A.; et al. Complementary Isonitrile-Based Multicomponent Reactions for the Synthesis of Diversified Cytotoxic Hemiasterlin Analogues. *Organic and Biomolecular Chemistry* **2015**, *13* (48), 11633–11644.

(20)

Brenna, E.; Gatti, F. G.; Monti, D.; Parmeggiani, F.; Sacchetti, A.; Valoti, J. Substrate-Engineering Approach to the Stereoselective Chemo-Multienzymatic Cascade Synthesis of Nicotiana Tabacum Lactone. *Journal of Molecular Catalysis B: Enzymatic* **2015**, *114*, 77–85.

(21)

Sacchetti, A.; Mauri, E.; Sani, M.; Masi, M.; Rossi, F. Microwave-Assisted Synthesis and Click Chemistry as Simple and Efficient Strategy for RGD Functionalized Hydrogels. *Tetrahedron Letters* **2014**, *55* (50), 6817–6820.

(22)

Lesma, G.; Sacchetti, A.; Bai, R.; Basso, G.; Bortolozzi, R.; Hamel, E.; Silvani, A.; Vaiana, N.; Viola, G. Hemiasterlin Analogues Incorporating an Aromatic, and Heterocyclic Type C-Terminus: Design, Synthesis and Biological Evaluation. *Molecular Diversity* **2014**, *18* (2), 357–373.

(23)

Lesma, G.; Meneghetti, F.; Sacchetti, A.; Stucchi, M.; Silvani, A. Asymmetric Ugi 3CR on Isatin-Derived Ketimine: Synthesis of Chiral 3,3-Disubstituted 3-Aminooxindole Derivatives. *Beilstein Journal of Organic Chemistry* **2014**, *10*, 1383–1389.

(24)

De Petrocellis, L.; Schiano Moriello, A.; Fontana, G.; Sacchetti, A.; Passarella, D.; Appendino, G.; Di Marzo, V. Effect of Chirality and Lipophilicity in the Functional Activity of Evodiamine and Its Analogues at TRPV1 Channels. *British Journal of Pharmacology* **2014**, *171* (10), 2608–2620.

(25)

Lesma, G.; Salvadori, S.; Airaghi, F.; Bojnik, E.; Borsodi, A.; Recca, T.; Sacchetti, A.; Balboni, G.; Silvani, A. Synthesis, Pharmacological Evaluation and Conformational Investigation of Endomorphin-2 Hybrid Analogues. *Molecular Diversity* **2013**, *17* (1), 19–31.

(26)

Lesma, G.; Salvadori, S.; Airaghi, F.; Murray, T. F.; Recca, T.; Sacchetti, A.; Balboni, G.; Silvani, A. Structural and Biological Exploration of Phe3-Phe 4-Modified Endomorphin-2 Peptidomimetics. *ACS Medicinal Chemistry Letters* **2013**, *4* (8), 795–799.

(27)

Lesma, G.; Cecchi, R.; Cagnotto, A.; Gobbi, M.; Meneghetti, F.; Musolino, M.; Sacchetti, A.; Silvani, A. Tetrahydro- β -Carboline-Based Spirocyclic Lactam as Type II' β -Turn: Application to the Synthesis and Biological Evaluation of Somatostatine Mimetics. *Journal of Organic Chemistry* **2013**, *78* (6), 2600–2610.

(28)

Gatti, F. G.; Parmeggiani, F.; Sacchetti, A. Synthetic Strategies Based on C=C Bioreductions for the Preparation of Biologically Active Molecules. *Synthetic Methods for Biologically Active Molecules: Exploring the Potential of Bioreductions* **2013**, 49–84.

(29)

Christodoulou, M. S.; Sacchetti, A.; Ronchetti, V.; Caufin, S.; Silvani, A.; Lesma, G.; Fontana, G.; Minicone, F.; Riva, B.; Ventura, M.; et al. Quinazolinecarboline Alkaloid Evodiamine as Scaffold for Targeting Topoisomerase I and Sirtuins. *Bioorganic and Medicinal Chemistry* **2013**, *21* (22), 6920–6928.

(30)

Brenna, E.; Gatti, F. G.; Malpezzi, L.; Monti, D.; Parmeggiani, F.; Sacchetti, A. Synthesis of Robalzotan, Ebalzotan, and Rotigotine Precursors via the Stereoselective Multienzymatic Cascade Reduction of α,β -Unsaturated Aldehydes. *Journal of Organic Chemistry* **2013**, *78* (10), 4811–4822.

(31)

Brenna, E.; Cossi, S. L.; Ferrandi, E. E.; Gatti, F. G.; Monti, D.; Parmeggiani, F.; Sacchetti, A. Substrate Scope and Synthetic Applications of the Enantioselective Reduction of α -Alkyl- β -Arylenones Mediated by Old Yellow Enzymes. *Organic and Biomolecular Chemistry* **2013**, *11* (18), 2988–2996.

(32)

Airaghi, F.; Fiorati, A.; Lesma, G.; Musolino, M.; Sacchetti, A.; Silvani, A. The Diketopiperazine-Fused Tetrahydro- β -Carboline Scaffold as a Model Peptidomimetic with an Unusual α -Turn Secondary Structure. *Beilstein Journal of Organic Chemistry* **2013**, *9*, 147–154.

(33)

Parmeggiani, F.; Sacchetti, A. Preparation and Luminescence Thermochromism of Tetranuclear Copper(I)-Pyridine-Iodide Clusters. *Journal of Chemical Education* **2012**, *89* (7), 946–949.

(34)

Lesma, G.; Cecchi, R.; Crippa, S.; Giovanelli, P.; Meneghetti, F.; Musolino, M.; Sacchetti, A.; Silvani, A. Ugi 4-CR/Pictet-Spengler Reaction as a Short Route to Tryptophan-Derived Peptidomimetics. *Organic and Biomolecular Chemistry* **2012**, *10* (45), 9004–9012.

(35)

Brenna, E.; Gatti, F. G.; Monti, D.; Parmeggiani, F.; Sacchetti, A. Productivity Enhancement of CC Bioreducations by Coupling the in Situ Substrate Feeding Product Removal Technology with Isolated Enzymes. *Chemical Communications* **2012**, *48* (1), 79–81.

(36)

Brenna, E.; Gatti, F. G.; Monti, D.; Parmeggiani, F.; Sacchetti, A. Cascade Coupling of Ene Reductases with Alcohol Dehydrogenases: Enantioselective Reduction of Prochiral Unsaturated Aldehydes. *ChemCatChem* **2012**, *4* (5), 653–659.

(37)

Bechtold, M.; Brenna, E.; Femmer, C.; Gatti, F. G.; Panke, S.; Parmeggiani, F.; Sacchetti, A. Biotechnological Development of a Practical Synthesis of Ethyl (S)-2-Ethoxy-3-(p - Methoxyphenyl)Propanoate (EEHP): Over 100-Fold Productivity Increase from Yeast Whole Cells to Recombinant Isolated Enzymes. *Organic Process Research and Development* **2012**, *16* (2), 269–276.

(38)

Sacchetti, A.; Silvani, A.; Lesma, G.; Pilati, T. Phe-Ala-Based Diazaspirocyclic Lactam as Nucleator of Type II β -Turn. *Journal of Organic Chemistry* **2011**, *76* (3), 833–839.

(39)

Sacchetti, A.; Silvani, A.; Gatti, F. G.; Lesma, G.; Pilati, T.; Trucchi, B. Addition of TMSCN to Chiral Ketimines Derived from Isatin. Synthesis of an Oxindole-Based Peptidomimetic and a Bioactive Spirohydantoin. *Organic and Biomolecular Chemistry* **2011**, *9* (15), 5515–5522.

(40)

Baroni, M.; Lesma, G.; Puleio, L.; Sacchetti, A.; Silvani, A.; Zanchet, M. Erratum: Synthesis of 3-Heteroaryloxindoles through t-BuOCl-Mediated Oxidation of 3-Heteroarylindoles (Synthesis (2010) (4075)). *Synthesis* **2011**, No. 2, 352.

(41)

Lesma, G.; Sacchetti, A.; Silvani, A. Total Synthesis of 275A Lehmizidine Frog Skin Alkaloid (or of Its Enantiomer). *Tetrahedron Asymmetry* **2010**, *21* (19), 2329–2333.

(42)

Lesma, G.; Landoni, N.; Sacchetti, A.; Silvani, A. The Spiropiperidine-3,3'-Oxindole Scaffold: A Type II β -Turn Peptide Isostere. *Tetrahedron* **2010**, *66* (25), 4474–4478.

(43)

Fuganti, C.; Sacchetti, A. Biocatalytic Enantioselective Approach to 3-Aryl-2-Nitropropanols: Synthesis of Enantioenriched (R)-5-Methoxy-3-Aminochroman, a Key Precursor to the Antidepressant Drug Robalzotan. *Journal of Molecular Catalysis B: Enzymatic* **2010**, *66* (3–4), 276–284.

(44)

Baroni, M.; Lesma, G.; Puleio, L.; Sacchetti, A.; Silvani, A.; Zanchet, M. Synthesis of 3-Heteroaryloxindoles through t-BuOCl-Mediated Oxidation of 3-Heteroarylindoles. *Synthesis* **2010**, No. 23, 4075–4081.

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Lesma, G.; Landoni, N.; Pilati, T.; Sacchetti, A.; Silvani, A. Tetrahydroisoquinoline-Based Spirocyclic Lactam as a Type II' β -Turn Inducing Peptide Mimetic. *Journal of Organic Chemistry* **2009**, *74* (21), 8098–8105.

(46)

Lesma, G.; Landoni, N.; Pilati, T.; Sacchetti, A.; Silvani, A. Grignard Addition to Imines Derived from Isatine: A Method for the Asymmetric Synthesis of Quaternary 3-Amino-oxindoles. *Journal of Organic Chemistry* **2009**, *74* (12), 4537–4541.

(47)

Lesma, G.; Colombo, A.; Sacchetti, A.; Silvani, A. Olefin Metathesis Based Approach to Diversely Functionalized Pyrrolizidines and Indolizidines; Total Synthesis of (+)-Monomorine. *Journal of Organic Chemistry* **2009**, *74* (2), 590–596.

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Passarella, D.; Giardini, A.; Peretto, B.; Fontana, G.; Sacchetti, A.; Silvani, A.; Ronchi, C.; Cappelletti, G.; Cartelli, D.; Borlak, J.; et al. Inhibitors of Tubulin Polymerization: Synthesis and Biological Evaluation of Hybrids of Vindoline, Anhydrovinblastine and Vinorelbine with Thiocolchicine, Podophyllotoxin and Baccatin III. *Bioorganic and Medicinal Chemistry* **2008**, *16* (11), 6269–6285.

(49)

Lesma, G.; Sacchetti, A.; Silvani, A. Synthesis and Conformational Analysis of Benzimidazole-Based Reverse Turn Mimics. *Tetrahedron Letters* **2008**, *49* (8), 1293–1296.

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Lesma, G.; Pilati, T.; Sacchetti, A.; Silvani, A. New Chiral Diamino Ligands as Sparteine Analogues. Application to the Palladium-Catalyzed Kinetic Oxidative Resolution of 1-Phenyl Ethanol. *Tetrahedron Asymmetry* **2008**, *19* (11), 1363–1366.

(51)

Lesma, G.; Colombo, A.; Sacchetti, A.; Silvani, A. A New Spirocyclic Proline-Based Lactam as Efficient Type II' β -Turn Inducing Peptidomimetic. *Tetrahedron Letters* **2008**, *49* (52), 7423–7425.

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Lesma, G.; Meschini, E.; Recca, T.; Sacchetti, A.; Silvani, A. Synthesis of Tetrahydroisoquinoline-Based Pseudopeptides and Their Characterization as Suitable Reverse Turn Mimetics. *Tetrahedron* **2007**, *63* (25), 5567–5578.

(53)

Lesma, G.; Colombo, A.; Landoni, N.; Sacchetti, A.; Silvani, A. A Chemoenzymatic-RCM Strategy for the Enantioselective Synthesis of New Dihydroxylated 5-Hydroxymethyl-Indolizidines and 6-Hydroxymethyl-Quinolizidines. *Tetrahedron Asymmetry* **2007**, *18* (16), 1948–1954.

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Lesma, G.; Cattenati, C.; Pilati, T.; Sacchetti, A.; Silvani, A. Enantioselective Copper-Catalyzed Cyclopropanation of Styrene by Means of Chiral Bispidine Ligands. *Tetrahedron Asymmetry* **2007**, *18* (5), 659–663.

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Landoni, N.; Lesma, G.; Sacchetti, A.; Silvani, A. Pyrroloisoquinoline-Based Tetrapeptide Analogues Mimicking Reverse-Turn Secondary Structures. *Journal of Organic Chemistry* **2007**, *72* (25), 9765–9768.

(56)

Lesma, G.; Sacchetti, A.; Silvani, A. Palladium-Catalyzed Hydroxycarbonylation of Aryl and Vinyl Triflates by in Situ Generated Carbon Monoxide under Microwave Irradiation. *Synthesis* **2006**, No. 4, 594–596.

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Lesma, G.; Danieli, B.; Sacchetti, A.; Silvani, A. An Efficient Enantioselective Approach to Cyclic β -Amino Acid Derivatives via Olefin Metathesis Reactions. *Journal of Organic Chemistry* **2006**, *71* (8), 3317–3320.

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Lesma, G.; Danieli, B.; Passarella, D.; Sacchetti, A.; Silvani, A. Chiral Amino-Amides as Solution Phase and Immobilized Ligands for the Catalytic Asymmetric Alkylation of Aromatic Aldehydes. *Letters in Organic Chemistry* **2006**, *3* (6), 430–436.

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Lesma, G.; Danieli, B.; Lodroni, F.; Passarella, D.; Sacchetti, A.; Silvani, A. Microwave-Assisted, Solid-Phase Synthesis of a Chiral 1,2,3,4- Tetrahydroquinoline Library. *Combinatorial Chemistry and High Throughput Screening* **2006**, *9* (9), 691–701.

(60)

Danieli, B.; Giardini, A.; Lesma, G.; Passarella, D.; Peretto, B.; Sacchetti, A.; Silvani, A.; Pratesi, G.; Zunino, F. Thiocolchicine-Podophyllotoxin Conjugates: Dynamic Libraries Based on Disulfide Exchange Reaction. *Journal of Organic Chemistry* **2006**, *71* (7), 2848–2853.

(61)

Passarella, D.; Barilli, A.; Belinghieri, F.; Fassi, P.; Riva, S.; Sacchetti, A.; Silvani, A.; Danieli, B. Short Enantioselective Synthesis of Sedridines, Ethylnorlobelols and Coniine via Reagent-Based Differentiation. *Tetrahedron Asymmetry* **2005**, *16* (13), 2225–2229.

(62)

Danieli, B.; Lesma, G.; Passarella, D.; Sacchetti, A.; Silvani, A. Chiral Diamines for Asymmetric Synthesis: An Efficient RCM Construction of the Ligand Core of (-)- and (+)-Sparteine. *Tetrahedron Letters* **2005**, *46* (42), 7121–7123.

(63)

Danieli, B.; Giovanelli, P.; Lesma, G.; Passarella, D.; Sacchetti, A.; Silvani, A. Combinatorial Solid-Phase Synthesis of 6-Hydroxy-1,2,3,4-Tetrahydro- β - Carbolines from L-5-Hydroxytryptophan. *Journal of Combinatorial Chemistry* **2005**, *7* (3), 458–462.

(64)

Lesma, G.; Crippa, S.; Danieli, B.; Passarella, D.; Sacchetti, A.; Silvani, A.; Viridis, A. Concise Asymmetric Synthesis of (-)-Halosaline and (2R,9aR)-(+)-2-Hydroxy- Quinolizidine by Ruthenium-Catalyzed Ring-Rearrangement Metathesis. *Tetrahedron* **2004**, *60* (31), 6437–6442.

(65)

Danieli, B.; Lesma, G.; Passarella, D.; Sacchetti, A.; Silvani, A.; Viridis, A. Total Enantioselective Synthesis of (-)-Cytisine. *Organic Letters* **2004**, *6* (4), 493–496.

(66)

Lesma, G.; Danieli, B.; Passarella, D.; Sacchetti, A.; Silvani, A. New Solution Free and Polymer Anchored Chiral Bispidine-Based Amino Alcohols. Synthesis and Screening for the Enantioselective Addition of Diethylzinc to Benzaldehyde. *Tetrahedron Asymmetry* **2003**, *14* (16), 2453–2458.

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Galasso, V.; Asaro, F.; Berti, F.; Kovač, B.; Habuš, I.; Sacchetti, A. On the Structure and Spectroscopic Properties of Sparteine and Its Diastereoisomers. *Chemical Physics* **2003**, *294* (2), 155–169.

(68)

Danieli, B.; Lesma, G.; Passarella, D.; Prospero, D.; Sacchetti, A.; Silvani, A.; Destro, R.; May, E.; Bombardelli, E. New Tetracyclic Colchicinoids from the Reaction of N-Deacetylthiocolchicine and N-Deacetylcolchicine with Nitrous Acid and Tert-Butyl Nitrite. *Helvetica Chimica Acta* **2003**, *86* (6), 2082–2089.

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Danieli, B.; Lesma, G.; Passarella, D.; Piacenti, P.; Sacchetti, A.; Silvani, A.; Viridis, A. Synthesis of Enantiopure Diamine Ligands Related to Sparteine, via Scandium Triflate-Catalyzed Imino Diels-Alder Reactions. *Tetrahedron Letters* **2002**, *43* (40), 7155–7158.

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Celestini, P.; Danieli, B.; Lesma, G.; Sacchetti, A.; Silvani, A.; Passarella, D.; Viridis, A. Trans-6-Aminocyclohept-3-Enols, a New Designed Polyfunctionalized Chiral Building Block for the Asymmetric Synthesis of 2-Substituted-4-Hydroxypiperidines. *Organic Letters* **2002**, *4* (8), 1367–1370.

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Danieli, B.; Lesma, G.; Passarella, D.; Sacchetti, A.; Silvani, A. Stereocontrolled Reduction of an Oxazepinohexahydroindolo[2,3-a]Quinolizine Derivative: Asymmetric Total Synthesis of (+)-Tacamonine. *Tetrahedron Letters* **2001**, 42 (41), 7237–7240.