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| 1. PERSONAL INFORMATIONS | |
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| foto002 | * 2T85BName and surname: Ballico Maurizio * Telephone: +39 0432-558889 * e-mail: maurizio.ballico@uniud.it * Web of Science ResearcherID: I-2858-2014 * ORCID: 0000-0001-6588-8037   2T8 |

1. PROFESSIONAL EXPERIENCE

**Academic experiences**

**-Research activity in Italian universitiese-**

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| * Dates (from – to) | From 10/01/2022 (current occupation ) |
| * Kind of employment | **Fixed-term researcher type A (Rtd A) f**or the competition sector 03/B1 FUNDAMENTALS OF CHEMICAL SCIENCES AND INORGANIC SYSTEMS at the Department of Agri-food, environmental and animal sciences of the University of Udine |
| * Name and address of the employer | Prof. Walter Baratta |
| * Company | Department of Agri-food, environmental and animal sciences of the University of Udine , via del Cotonificio, 108, 33100 Udine. |
| * Main duties and responsibilities | Project title: “Conversion of triglycerides and unsaturated esters to higher value unsaturated alcohols via selective and stainable catalytic processes”. The research project concerns the preparation and characterization of new ruthenium complexes containing bi- and tridentate ligands which have shown high catalytic activity in hydrogenation and reduction reactions of esters (triglycerides and unsaturated compounds) to alcohols. |
| * Activity or sector | 229BScientific research and teaching |
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| * Dates (from – to) | Froml 16/04/2020 to 15/04/2021 |
| * Kind of employment | **Research grant holder** (art. 22, L. 240/2010) |
| * Name and address of the employer | Prof. Walter Baratta |
| * Company | Department of Agri-food, environmental and animal sciences of the University of Udine , via del Cotonificio, 108, 33100 Udine |
| * Main duties and responsibilities | Project title: “Reduction of lignocellulosic biomass derivatives”. Synthesis and use of new ruthenium complexes with tridentate CNN and diphosphine (PP) ligands as catalysts in reduction reactions of carbonyl compounds obtained from lignocellulosic biomass for the preparation of numerous alcohols of biological, pharmacological, food or industrial interest. |
| * Activity or sector | Scientific research |
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| * Dates (from – to) | From 01/06/2017 to 14/03/2020 |
| * Kind of employment | **Research grant holder** (art. 22, L. 240/2010) (including contract renewals) |
| * Name and address of the employer | Prof. Walter Baratta |
| * Company | Department of Agri-food, environmental and animal sciences of the University of Udine , via del Cotonificio, 108, 33100 Udine |
| * Main duties and responsibilities | Project title: “Multitasking catalysts for the production of flavors and hydrogen”. Synthesis and use of new ruthenium complexes with diamine (NN) and diphosphine (PP) type ligands as catalysts in reduction reactions of carbonyl compounds for the preparation of numerous alcohols of biological, pharmacological or industrial interest . |
| * Activity or sector | Scientific research |
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| * Dates (from – to) | From 11/03/2014 to 31/12/2014 |
| * Kind of employment | **Research Assistant** |
| * Name and address of the employer | Prof. Gennaro Esposito |
| * Company | Department of Science and Math, University of New York in Abu Dhabi (NYUAD), United Arabian Emirates (UAE). |
| * Main duties and responsibilities | Collaboration in a research project focused on the study of proteins via high resolution NMR and their interaction with appropriate ligands. In particular, amyloidogenic systems such as β2-microglobulin (β2m) and transthyretin (TTR) have been analyzed with gold nanoparticles, or with other molecules of biological interest such as the so-called "nanobodies (Nb24)", etc. |
| * Activity or sector | Scientific research |
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| * Dates (from – to) | From 17/12/2012 to 28/02/2014 |
| * Kind of employment | **Research grant holder** (art. 22, L. 240/2010) |
| * Name and address of the employer | Prof. Silvio Brusaferro (responsible), Dr. Maria Chiara Mimmi (coordinator) |
| * Company | Department of Medical and Biological Sciences of the University of Udine, P.le Kolbe 4, 33100 Udine. |
| * Main duties and responsibilities | Project title: “Metabolomics applied in the development of new diagnostic and therapeutic methods in congenital fetal malformations". The aim of the project was to identify, through a metabolomic approach, the implications of some congenital malformations (such as diaphragmatic hernia (CDH) and myelomeningocele (spine bifida)) on metabolism. High resolution NMR and LC-MS techniques were used. Various molecules were identified that could be used as possible "biomarkers" for these pathologies, also as a support for surgical activities still used in the treatment of these diseases LC-MS techniques have also been developed that can be used as "scanners" for the diagnosis of some of these congenital malformations. |
| * Activity or sector | Scientific research |
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| * Dates (from – to) | From 17/12/2011 to 16/12/2012 |
| * Kind of employment | **Research grant holder** (art. 22, L. 240/2010) |
| * Name and address of the employer | Dr. Clara Comuzzi |
| * Company | Department of Chemistry, Physics and Environment of the University of Udine, via del Cotonificio 108, 33100 Udine. |
| * Main duties and responsibilities | Project title:"Study of the mechanisms of reactions photo-activated by expanded porphyrins". The project concerns the synthesis of new expanded porphyrins (in particular pentaphyrins) capable of inducing photochemical reactions on organic substrates and their mechanisms of action. The aim is to obtain new photo-sensitizers to be used in photodynamic therapy (PDT) for the treatment of tumor tissues. |
| * Activity or sector | Scientific research |
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| * Dates (from – to) | From 01/04/2011 to 30/11/2011 |
| * Kind of employment | **Occasional performance for research activities** |
| * Name and address of the employer | Prof. Daniele Goi, Dr. Stefano Ruffini |
| * Company | Collaboration between the University of Udine and the G.A.I.A. company. of S. Ruffini, located in the Industrial Area of Grions del Torre, Via G.B. Maddalena 5, 33100 Povoletto (Udine). |
| * Main duties and responsibilities | Project title: “Study on the state of the art of the analysis methods of complex wastewater and solid matrices. Reference legislation and techniques". Identification of analytical methodologies for the study of liquid and solid wastewater samples, chemical analyzes using the main instrumental techniques, in particular GC-MS, LC, UV-vis spectrophotometry, IR spectrophotometry, etc. Extraction of analytes from complex matrices; analysis of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), hexachlorobenzene (HCB), etc. |
| * Activity or sector | Scientific research |
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| * Dates (from – to) | From 09/01/2009 to 30/06/2010 |
| * Kind of employment | **Research grant holder** (art. 51 L.449/97) |
| * Name and address of the employer | Dr. Clara Comuzzi |
| * Company | Department of Chemical Sciences and Technologies of the University of Udine, via del Cotonificio 108, 33100 Udine. |
| * Main duties and responsibilities | Project title: "Synthesis and characterization of porphyrogenic systems and their biological activity". Synthesis and characterization of new pentaphyrins and their complexation with Zn(II), Cu(II), Lu(III), Yb(III), Eu(III ), Tb(III), Ge(II) and Si(IV). Study of the biological properties of these compounds. Application of these molecules in Photo-dynamic Therapy (PDT) for the treatment of cancer. |
| * Activity or sector | Scientific research |
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| * Dates (from – to) | From 02/03/2006 to 30/06/2008 |
| * Kind of employment | **Research grant holder** (including contract renewals) (art. 51 L.449/97) |
| * Name and address of the employer | Prof. Pierluigi Rigo and Prof. Walter Baratta |
| * Company | Department of Chemical Sciences and Technologies of the University of Udine, via del Cotonificio 108, 33100 Udine. |
| * Main duties and responsibilities | Project title: “Reductions of ketones to alcohols via hydrogen transfer. Use of Ru/Phosfine/Aminomethylpyridine systems in catalytic syntheses of industrial interest". Synthesis and characterization of Ru(II) and Os(II) complexes for the reduction of carbonyl compounds via asymmetric catalytic hydrogenation (HY) and hydrogen transfer (TH). |
| * Activity or sector | Scientific research |
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| * Dates (from – to) | From 01/04/2005 to28/02/2006 |
| * Kind of employment | **Research Fellowship** |
| * Name and address of the employer | Prof. Gian Maria Bonora |
| * Company | Department of Chemical Sciences of the University of Trieste, via Giorgieri 1, 34127 Trieste. |
| * Main duties and responsibilities | Project title: "Characterization and use of new polyethylene glycol derivatives". |
| * Activity or sector | Scientific research |
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| * Dates (from – to) | From 01/04/2004 to 31/03/2005 |
| * Kind of employment | **Research grant holder** (art. 51 L.449/97) |
| * Name and address of the employer | Prof. Gian Maria Bonora |
| * Company | Department of Chemical Sciences of the University of Trieste, via Giorgieri 1, 34127 Trieste. |
| * Main duties and responsibilities | Project title: "Characterization and use of new polyethylene glycol derivatives". Synthesis of new polyethylene glycol derivatives with high functionalization. Characterization and use as conjugating agents for molecules of biological or chemical interest. Conjugation of oligonucleotides and peptides to polyethylene glycol (PEG). |
| * Activity or sector | Scientific research |
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| **Academic experiences**  **-Research activity in foreign universities-** | |
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| |  |  | | --- | --- | | * Dates (from – to) | From 11/03/2014 to 31/12/2014 | | * Kind of employment | **Research Assistant** | | * Name and address of the employer | Prof. Gennaro Esposito | | * Company | Department of Science and Math, University of New York in Abu Dhabi (NYUAD), United Arabian Emirates (UAE). | | * Main duties and responsibilities | Collaboration in a research project focused on the study of proteins via high resolution NMR and their interaction with appropriate ligands. In particular, amyloidogenic systems such as β2-microglobulin (β2m) and transthyretin (TTR) have been analyzed with gold nanoparticles, or with other molecules of biological interest such as the so-called nanobodies (Nb24), etc. | | * Activity or sector | Scientific research | |  | | | * Dates (from – to) | From 05/05/2003 to 28/07/2003 | | * Kind of employment | **Training and research period abroad** during the third year of the PhD | | * Name and address of the employer | Prof. Francois Morvan (supervisor), Prof. Jean Martinez (director) | | * Company | L.A.P.P. (Laboratoire des Aminoacides, Peptides et Proteines) in the UMR 5810 CNRS-UM1-UM 2 Université Montpellier II, Montpellier, Francia. | | * Main duties and responsibilities | Conjugation of new highly functionalized polyethylene glycol (PEG) derivatives to amino acids and peptides for the preparation of new potential drugs. | | * Activity or sector | Scientific research | | |
| **Teaching Experiences** | |
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| |  |  | | --- | --- | | * Dates (from – to) | Academic Year 2022-2023 | | * Kind of employment | **Teaching activity** (38 hours in total) as part of the courses of GENERAL AND INORGANIC CHEMISTRY with Prof. Walter Baratta [code AG0043] for the degree course in FOOD SCIENCE AND TECHNOLOGY [722] (15 hours), GENERAL AND INORGANIC CHEMISTRY with the owner Prof. Walter Baratta [cod. AG1166] for the degree course in AGRICULTURAL SCIENCES [720] (8 hours) and CHEMICAL AND BIOCHEMICAL SCIENCES with Prof. Daniele Zuccaccia [cod. AG1247] for the degree course in ANIMAL BREEDING AND HEALTH [761] (15 hours) at the Department of Agri-food, Environmental and Animal Sciences of the University of Udine. | | * Name and address of the employer | Prof. Walter Baratta, Prof. Daniele Zuccaccia | | * Company | Department of Agri-food, Environmental and Animal Sciences of the University of Udine, via del Cotonificio, 108, 33100 Udine | | * Main duties and responsibilities | Exercises and practical activities within the teaching of General and Inorganic Chemistry | | * Activity or sector | Teaching activity - CHIM/03 sector | | |
| * Dates (from – to) | From 14/11/2018 to 16/01/2019 |
| * Kind of employment | **Assignment of teaching collaborator** (25 hours) in the teaching of GENERAL AND INORGANIC CHEMISTRY with Prof. Walter Baratta [code AG0043] for the degree course in FOOD SCIENCE AND TECHNOLOGY [722] (L - DM270) at the Department of Agri-food, Environmental and Animal Sciences of the University of Udine. |
| * Name and address of the employer | Prof. Walter Baratta |
| * Company | Department of Agri-food, Environmental and Animal Sciences of the University of Udine, via del Cotonificio, 108, 33100 Udine |
| * Main duties and responsibilities | Exercises and practical activities within the teaching of General and Inorganic Chemistry |
| * Activity or sector | Teaching activity - CHIM/03 sector |
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| * Dates (from – to) | From 21/11/2017 tol 25/01/2018 |
| * Kind of employment | **Assignment of teaching collaborator** (30 hours) in the teaching of GENERAL AND INORGANIC CHEMISTRY with Prof. Walter Baratta [code AG0043] for the degree course in FOOD SCIENCE AND TECHNOLOGY [722] (L - DM270) at the Department of Agri-food, Environmental and Animal Sciences of the University of Udine. |
| * Name and address of the employer | Prof. Walter Baratta |
| * Company | Department of Agri-food, Environmental and Animal Sciences of the University of Udine, via del Cotonificio, 108, 33100 Udine |
| * Main duties and responsibilities | Exercises and practical activities within the teaching of General and Inorganic Chemistry |
| * Activity or sector | Teaching activity - CHIM/03 sector |
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| **Co-supervisor of the following degree theses**   1. **Bachelor's thesis in Food Science and Technology** (L-26) at the University of Udine), "Reduction of terpene derivatives, synthesis of geraniol starting from citral", undergraduate: Riccardo Bot, other co-supervisor: Rosario Figliolia, supervisor: Prof. Walter Baratta, Academic year 2017/2018. 2. **Bachelor's thesis in Food Science and Technology** (L-26) at the University of Udine), "Reduction of carbonyl compounds derived from lignocellulosic biomass", undergraduate: Francesco Cesaro, supervisor: Prof. Walter Baratta, Year academic year 2018/2019. | |

3. EDUCATION AND TRAINING

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| * Dates (from – to) | From 01/01/2001 to 30/03/2004 |
| * Title of qualification awarded | **PhD in Chemical Sciences** |
| * Name and type of organization providing education and training | University of Trieste, Department of Chemical Sciences, Via Giorgieri 1, 34127 Trieste |
| * Main topics/professional skills acquired | Chemical synthesis of organic compounds, Conjugation of compounds with biological activity to polymers, Analysis and characterization of chemical compounds (NMR, LC-MS, ESI-MS, UV-vis spectrophotometry, etc.), Purification through chromatographic techniques of the conjugated derivatives obtained by synthesis (in particular liquid chromatography (ion exchange, gel permeation (SEC), etc.)). |
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| * Dates | 05/1997 |  |
| * Title of qualification awarded | **Qualification to practice the profession of Chemist** obtained by passing the relevant state exam (1st session, May 1997) |  |
| * Name and type of organization providing education and training | University of Trieste, Department of Chemical Sciences, Via Giorgieri 1, 34127 Trieste |  |
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| * Dates (from – to) | From 05/11/1989 to 19/03/1997 |  |
| * Title of qualification awarded | **Degree in Chemical Sciences** (old system) with a score of 110/110 |  |
| * Name and type of organization providing education and training | University of Trieste, Department of Chemical Sciences, Via Giorgieri 1, 34127 Trieste |
| * Main topics/professional skills acquired | Chemical synthesis, analysis and characterization of chemical compounds. |
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| * Dates (from – to) | From 09/09/1984 to 07/07/1989 |  |
| * Title of qualification awarded | **Industrial Chemical Expert diploma** with a score of 44/60 |  |
| * Name and type of organization providing education and training | Industrial Technical Institute “A. Malignani”, Via Ramazzotti 41, 33052 Cervignano del Friuli (UD). |
| * Main topics/professional skills acquired | Chemistry, Industrial Chemistry, Physical Chemistry, Chemical and Instrumental Analysis, Physics, Mathematics, Technical Drawing. |

4. PERSONAL SKILLS

Spoken languages:

Native language: Italian

Other Languages: English

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| Communication skills | Excellent interpersonal skills, adaptability to different working environments. |

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| 104BOrganizational and management skillsi | 185B He has developed the ability to interact with other people also through sporting activities, for example having played in various football teams for over 20 years at an amateur level. You subsequently developed the ability to cooperate with colleagues in the workplace, operating on several occasions in a multicultural environment (New York University in Abu Dhabi for example). |

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| Professional skills | * Chemical Synthesis: synthesis of organic compounds and organometallic complexes; organic synthesis in liquid phase; organic synthesis supported on polymer (Polyethylene Glycol, PEG); Bioconjugation. * Catalysis: reduction of carbonyl compounds to alcohols via hydrogen transfer (TH) and hydrogenation (HY) with homogeneous catalysts consisting of organometallic complexes of transition metals (in particular ruthenium, osmium, iridium). * Chemical and Instrumental Analysis: Knowledge of the main analytical and instrumental techniques. Use of NMR spectroscopy (1H NMR, 13C NMR, 31P NMR, multinuclear, 1D and 2D), HPLC (RP HPLC, ion exchange, GPC), Gas Chromatography, Mass Spectrometry (EI-MS, ESI-MS), LC -MS, GC-MS; UV-vis spectrophotometry. and IR. * Extractions and Chemical Analysis of complex matrices: Extraction of the main pollutants from complex solid or liquid matrices for their analytical determination. Analysis of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), hexachlorobenzene (HCBs), hydrocarbons, etc. * Metabolomics: metabolic analysis on samples of tissues, organs and physiological fluids (plasma, urine, amniotic fluid) using spectroscopic (NMR) and chromatographic (LC-MS) techniques. Sample preparation for metabolomics. Statistical analysis of the data obtained. * Proteomics: study of the structure of proteins and their interaction with small molecules via NMR spectroscopy (1D, 2D and 3D techniques). |

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| 106BInformation technology skills | * 139BKnowledge of the main chemical software (ChemWindows, ChemOffice, Isis Draw, etc.) and management programs for instrumental analysis systems (chromatographic systems, gas chromatographic systems, LC-MS, UV-vis spectroscopy, etc.). • Good skills of the main Microsoft and Linux operating systems. • Good knowledge of Microsoft Office and OpenOffice. • Image analysis and editing (Photoshop). • Acquisition and use of bibliographic references with EndNote.onoscenza dei principali software chimici (ChemWindows, ChemOffice, Isis Draw, ecc.) e dei programmi di gestione dei sistemi di analisi strumentale (sistemi cromatografici, gas cromatografici, LC-MS, spettroscopia UV-vis., ecc). * Buone competenze dei principali sistemi operativi Microsoft e Linux. * Buone conoscenze di Microsoft Office ed OpenOffice. * Analisi ed editing di immagine (Photoshop). * Acquisizione e utilizzo di referenze bibliografiche con EndNote. |

1. UPDATE AND TRAINING COURSES

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| * Date | 16-21 July 2001 |
| * Subject | **Training Course:** 1st National school for PhD Students of Chemistry of biological Systems. “Modelling and Nuclear Magnetic Resonance: Interaction between macromolecules and ligands”. |
| * Name and address of the organizing institution | University of Verona, Verona, Italy. |
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| * Date | 17-21 June 2002 |
| * Subject | **Training Course:** XXVII Summer Course “A. Corbella”, Seminars of Organic Synthesis". |
| * Name and address of the organizing institution | University of Milan, Gargnano (Brescia), Italy |
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| * Date | 3-10 August 2002 |
| * Subject | **Training Course:** "European Commission-funded Intensive Course: Synthesis for solving biological problems". |
| * Name and address of the organizing institution | University of Newcastle upon Tyne, Newcastle, Great Britain. |
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| * Date | 23-28 March 2003 |
| * Subject | **Training Course:** 7th Course of mass spectrometry for PhD Students. |
| * Name and address of the organizing institution | Certosa di Pontignano (Siena), Italy. |
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| * Date | 26-27 November 2019 |
| * Subject | **Training Course:** "analysis of complex mixtures". |
| * Name and address of the organizing institution | Bruker Italia Company, Milan, Italy |

1. PUBBLICAZIONI

(corresponding author underlined) http://orcid.org/0000-0001-6588-8037

Publications subject to refereeing in journals reviewed by WoS ISI/SCOPUS

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| 1. Dario Alessi, Pierfrancesco Del Mestre, Eleonora Aneggi, **Maurizio Ballico**, Antonio P. Beltrami, Marta Busato, Daniela Cesselli, Alexandra A. Heidecker, Daniele Zuccaccia and Walter Baratta,*“Cyclometalated C^N diphosphine ruthenium catalysts for Oppenauer-type oxidation/transfer hydrogenation reactions and cytotoxic activity”***,**Catalysis Science and Technology, **2023,** 13 (18), 5267-5279 <https://doi.org/10.1039/D3CY00676J>. 2. **Maurizio Ballico**, Dario Alessi, Christian Jandl, Denise Lovison and Walter Baratta, *“Terpyridine Diphosphine Ruthenium Complexes as Efficient Photocatalysts for the Transfer Hydrogenation of Carbonyl Compounds”*, Chemistry – A European Journal 28 (65), e202201722 (**2022**), <https://doi.org/10.1002/chem.202201722>. 3. Denise Lovison, Dario Alessi, Lorenzo Allegri, Federica Baldan, **Maurizio Ballico**, Giuseppe Damante, Marilisa Galasso, Daniele Guardavaccaro, Silvia Ruggieri, Andrea Melchior, Daniele Veclani, Chiara Nardon and Walter Baratta, *“Enantioselective Cytotoxicity of Chiral Diphosphine Ruthenium(II) Complexes Against Cancer Cells”*, Chemistry-A European Journal, 28 (33), e202200200 (**2022**), <https://doi.org/10.1002/chem.202200200>. 4. Salvatore Baldino, Steven Giboulot, Denise Lovison, Hans Gunther Nedden, Alexander Pöthig, Antonio Zanotti-Gerosa, Daniele Zuccaccia, **Maurizio Ballico**, and Walter Baratta *“Preparation of Neutral trans - cis [Ru(O2CR)2P2(NN)], Cationic [Ru(O2CR)P2(NN)]O2CR and Pincer [Ru(O2CR)(CNN)P2] (P = PPh3, P2 = diphosphine) Carboxylate Complexes and their Application in the Catalytic Carbonyl Compounds Reduction*”, Organometallics, **2021**, 40 (8), 1086-1103 <https://doi.org/10.1021/acs.organomet.1c00059>. 5. Rosario Figliolia, Paolo Cavigli, Clara Comuzzi, Alessandro Del Zotto, Denise Lovison, Paolo Strazzolini, Sabina Susmel, Daniele Zuccaccia, **Maurizio Ballico**, Walter Baratta, *“CNN Pincer Ruthenium Complexes for Efficient Transfer Hydrogenation of Biomass-Derived Carbonyl Compounds”*, Dalton Transactions, 49 (24), 453-465 (**2020**), <https://doi.org/10.1039/c9dt04292j>. 6. **Maurizio Ballico**, Daniele Zuccaccia, Rosario Figliolia, and Walter Baratta *“Bulky Diphosphine Acetate Ruthenium Complexes: Synthesis and Catalytic Activity in Ketone Transfer Hydrogenation and Alkyne Dimerization”*, Organometallics, **2020**, 39 (17), 3180-3193, <https://doi.org/10.1021/acs.organomet.0c00361>. 7. Denise Lovison, Lorenzo Allegri, Federica Baldan, **Maurizio Ballico**, Giuseppe Damante, Christian Jandl and Walter Baratta, *“Cationic Carboxylate and Thioacetate Ruthenium(II) Complexes: Synthesis and Cytotoxic Activity Against Anaplastic Thyroid Cancer Cells”*, Dalton Transactions, **2020**, 49 (2), 8375-8388, <https://doi.org/10.1039/d0dt01390k>. 8. Steven Giboulot, Clara Comuzzi, Alessandro Del Zotto, Rosario Figliolia, Giovanna Lippe, Denise Lovison, Paolo Strazzolini, Sabina Susmel, Ennio Zangrando, Daniele Zuccaccia, Salvatore Baldino, **Maurizio Ballico**, Walter Baratta, *“Preparation of Monocarbonyl Ruthenium Complexes Bearing Bidentate Nitrogen and Phosphine Ligands and their Catalytic Activity in Carbonyl Compound Reduction”*, Dalton Transactions, 48 (33), 12560-12576 (**2019**), <https://doi.org/10.1039/c9dt02616a>. 9. Steven Giboulot, Salvatore Baldino, **Maurizio Ballico**, Rosario Figliolia, Alexander Pöthig, Shuanming Zhang, Daniele Zuccaccia, Walter Baratta, *“Flat and Efficient HCNN and CNN Pincer Ruthenium Catalysts for Carbonyl Compound Reduction”*, Organometallics, **2019**, 38 (5), 1127-1142 <https://doi.org/10.1021/acs.organomet.8b00919>. 10. Clara Comuzzi, **Maurizio Ballico**, Eleonora Aneggi, Maria Jose Rubio Aleman, Gabriel JoseConesa Perez, Alessandro Fattori, Daniele Goi, *“Ionic exchange desorption of mercury from contaminated dredging sludge (at 393K and ambient temperature)”*, Soil and Sediment Contamination: An International Journal **2019**, 28 (1), 122-133 [https://doi.org/10.1080/15320383.2018.1551326](https://doi.org/10.1021/acs.organomet.8b00919). 11. Steven Giboulot, Salvatore Baldino, **Maurizio Ballico**, Hans Gunther Nedden, Daniele Zuccaccia, Walter Baratta, *“Cyclometallated Dicarbonyl Ruthenium Catalysts for Transfer Hydrogenation and Hydrogenation of Carbonyl Compounds”*, Organometallics, **2018**, 37 (13), 2136-2146 <https://doi.org/10.1021/acs.organomet.8b00267>. 12. Cinzia Barbato, Salvatore Baldino, **Maurizio Ballico**, Rosario Figliolia, Santo Magnolia, Katia Siega, Eberhardt Herdtweck, Paolo Strazzolini, Giorgio Chelucci, Walter Baratta, *“OsXCl(phosphine)2(diamine) and OsXCl(diphosphine)(diamine) (X = Cl, H) Complexes for Ketone Hydrogenation”*, Organometallics, **2018**, 37 (1), 65-77 <https://doi.org/10.1021/acs.organomet.7b00737>. 13. Cristina Cantarutti, Sara Raimondi, Giorgia Brancolini, Alessandra Corazza, Sofia Giorgetti, **Maurizio Ballico**, Stefano Zanini, Giovanni Palmisano, Paolo Bertoncin, Loredana Marchese, P. Patrizia Mangione, Vittorio Bellotti, Stefano Corni, Federico Fogolari, Gennaro Esposito *“Citrate-stabilized Gold Nanoparticles Hinder Fibrillogenesis of a Pathologic Variant of β2-Microglobulin”*, Nanoscale, 9 (11), 3941-3951 (**2017**), <https://doi.org/10.1039/c6nr09362k>. 14. Sara Raimondi, R. Porcari, P. Patrizia Mangione, Guglielmo Verona, Julien Marcoux, Sofia Giorgetti, Graham W. Taylor, Stephan Ellmerich, **Maurizio Ballico**, Stefano Zanini, Els Pardon, Raya Al-Shawi, J. Paul Simons, Alessandra Corazza, Federico Fogolari, Manuela Leri, Massimo Stefani, Monica Bucciantini, Julian D. Gillmore, Philip N. Hawkins, Maurizia Valli, Monica Stoppini, Carol V. Robinson, Jan Steyaert, Gennaro Esposito, Vittorio Bellotti, *“A Specific Nanobody Prevents Amyloidogenesis of D76N β2-Microglobulin in Vitro and Modifies its Tissue Distribution in Vivo”*, Scientific Reports, 7, article number 46711 (**2017**), <https://doi.org/10.1038/srep46711>. 15. Laura Mariuzzi, Rossana Domenis, Maria Orsaria, Stefania Marzinotto, Ambrogio P. Londero, Veronica Candotti, Andrea Zanello, **Maurizio Ballico**, Maria Chiara Mimmi, Angelo Calcagno, Diego Marchesoni, Carla Di Loreto, Antonio P. Beltrami, Daniela Cesselli, Giorgia Gri, *“Functional Expression of Aryl hydrocarbon Receptor on Mast cells Populating Human Endometriotic Tissues”*, Laboratory Investigation, 96, 959-971 (**2016**), <https://doi.org/10.1038/labinvest.2016.74>. 16. Gloria Pelizzo, Maria Chiara Mimmi, **Maurizio Ballico**, Mario Marotta, Ilaria Goruppi, Jose Louis Peirò, Elisa Zambaiti, Federico Costanzo, Erika Andreatta, Elena Tonin, and Valeria Calcaterra, *“Congenital pulmonary malformations: metabolomic profile of lung phenotype in infants”*, The Journal of Maternal-Fetal & Neonatal Medicine, 29(1), 143-147 (**2016**), <https://doi.org/10.3109/14767058.2014.991708>. 17. 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| 1. PARTICIPATION TO NATIONAL AND INTERNATIONAL CONFERENCES   **Oral presentations** (the speaker is underlined)  - 9 oral presentations, 4 of which as speaker - |
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| 110  148B   1. “*New multifunctional polymers based on poly(ethylene glycol): MultiPEGs*”. **Maurizio Ballico**, Intensive course: “Synthesis for solving biological problems”, University of Newcastle upon Tyne (UK), August 3-10, **2002**. (***Oral****)* 2. “*Nuovi supporti polimerici a base di polietilenglicole (PEG)*”. **Maurizio Ballico**, Gian Maria Bonora, Incontro: “I giovani e la chimica organica in Friuli Venezia Giulia”, Università degli studi di Trieste (Italy), 27 October **2004**. (***Oral****)* 3. “*Preparation of New Os(II) Catalysts for TH of Carbonyl Compounds*”. **Maurizio Ballico** , Walter Baratta, Giorgio Chelucci, Katia Siega, Pierluigi Rigo, VIII Congresso del Gruppo Interdivisionale di Chimica Organometallica, Perugia (Italy), 25-28 June **2008**. (***Oral****)* 4. “*Os(II) and Ru(II) Pyme-Type Complexes for Highly Efficient Asymmetric Reduction of Ketones*”. Walter. Baratta, **Maurizio Ballico**, Giorgio Chelucci, Alessandro Del Zotto, Eberhardt Herdtweck, Santo Magnolia, Katia Siega, Pierluigi Rigo, VIII Congresso del Gruppo Interdivisionale di Chimica Organometallica, Perugia (Italy), 25-28 June **2008**. (***Oral****)* 5. “*Highly selective homogeneous hydrogenation of olefins using iron nanoparticles as catalyst*”. Walter Baratta, **Maurizio Ballico**, Giorgio Chelucci, Alessandro Del Zotto, Eberhardt Herdtweck, Santo Magnolia, Katia Siega, Pierluigi Rigo, XXIII International Conference on Organometallic Chemistry (ICOMC2008), Rennes (France), July 13-18, **2008**. (***Oral****)* 6. “*Anaerobic digestion of sewage sludge: macromolecular composition and IWA ADM1 application*”. Valentina Cabbai, **Maurizio Ballico**, Daniele Goi, Sustainable Technology for Environmental Protection (SIDISA 2012), International Symposium of Sanitary and Environmental Engineering 9th Edition, Italian-Brazilian Symposium of Sanitary and Environmental Engineering 11th Edition, Milan (Italy), 26-29 June **2012**. (***Oral****)* 7. “*Anaerobic digestion of sewage sludge: BMP test and macromolecular characterization for IWA ADM1 application*”. Valentina Cabbai, **Maurizio Ballico**, Daniele Goi, 13th World Congress on Anaerobic Digestion (AD13), Santiago de Compostela (Spain), 25-28 June **2013**. (***Oral****)* 8. “*[OsXCl(P)R2R(NN)] and [OsXCl(PP)(NN)] (X = H, Cl, OCHR2RCFR3R) Complexes for Hydrogenation of Carbonyl Compounds*”. **Maurizio Ballico**, Cinzia Barbato, Salvatore Baldino, Rosario Figliolia, Eberhardt Herdtweck, Walter Baratta,XXVIII International Conference on Organometallic ChemistryICOMC 2018, Firenze (Italy), 15-20 July **2018**, e XIII Congresso del Gruppo Interdivisionale di Chimica Organometallica della Società Chimica Italiana (Co.G.I.C.O. XIII), Firenze (Italy), 18-20 July **2018**. (***Oral****)* 9. “*Cyclometallated Ruthenium Complexes for Transfer Hydrogenation and Hydrogenation Reactions*”. Walter Baratta, Salvatore Baldino, **Maurizio Ballico**, Rosario Figliolia, Steven Giboulot, Ennio Zangrando, Shuanming Zhang, XXVIII International Conference on Organometallic ChemistryICOMC 2018, Firenze (Italy), 15-20 July **2018**. (***Oral****)* |
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| **Poster presentations** (presenting author underlined)  -26 posters of which 13 as presenting author- |
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| 1. “*Sintesi in fase liquida di sequenze miste peptide-oligonucleotide coniugate a catene di polietilenglicole*”, Sara Drioli, Ilaria Adamo, **Maurizio Ballico**, Gian Maria Bonora. XXVII Convegno nazionale della Divisione di Chimica Organica, Società Chimica Italiana, Trieste (Italy), 3-7 september **2001**. (*Poster*) 2. *“Sintesi e caratterizzazione di un oligonucleotide chimerico omopurinico coniugato a polietilenglicole ad alto peso molecolare”* **Maurizio Ballico**, L.uigi Emilio Xodo. Sara Drioli, Gian Maria Bonora, XXVII Congresso Nazionale della Divisione di Chimica Organica, Trieste (Italy), 3-7 september **2001**. (*Poster*) 3. *”Protezione selettiva delle funzioni terminali di catene di polietilenglicole ad alto peso molecolare: sintesi, purificazione ed applicazione”*, **Maurizio Ballico**, Ilaria Adamo, Sara Drioli, Gian Maria Bonora, XV Convegno Italiano di Scienze e tecnologia delle Macromolecole, Trieste (Italy), 24-27 september **2001**. 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(*Poster*) 25. “Terpyridine Diphosphine Ruthenium Complexes as Efficient Photocatalysts for the Transfer Hydrogenation of Carbonyl Compounds”. Dario Alessi, Christian Jandl, Denise Lovison, Walter Baratta**, Maurizio Ballico**, XXVIII International Conference on Coordination ChemistryICCC 2022, Rimini (Italy), 28 august - 2 september **2022** (*Poster*) 26. “Diphosphine Ruthenium Complexes in Catalysis and Medicine”. Dario Alessi, **Maurizio Ballico**, Pierfrancesco Del Mestre, Denise Lovison, Irene G. Rolle, Daniela Cesselli, Antonio P. Beltrami, Walter Baratta**,** XXVIII International Conference on Coordination ChemistryICCC 2022, Rimini (Italy), 28 august - 2 september **2022** (*Poster)* |

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Udine, 22 September 2023

DONE, READ AND SIGNED Dr. Maurizio Ballico

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