

*Curriculum Vitae et Studiorum*

**SERGIO RIVA**

(Aggiornato al 31-12-2020)

A handwritten signature in blue ink that reads "Sergio Riva". The signature is written in a cursive style and is positioned below the date of the update.

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## ***Dati Biografici***

Luogo e data di nascita            Milano, 23 giugno 1958

### ***Istruzione e Formazione***

gennaio 1983            Laurea in Chimica (110/110 e lode) , Indirizzo organico-biologico  
 Università degli Studi di Milano  
 Anno Accademico 1982-1983 , Titolo tesi:  
 “*Ricerche sulla semisintesi della vindolina a partire dalla (-)-vincadiformina*”

dicembre 1989            Diploma di Specialità in Sintesi Chimica, Scuola di Specialità “A. Quilico”  
 Politecnico di Milano Anno Accademico 1988 – 1989 , Titolo tesi:  
 “*Trasformazioni chimiche catalizzate da enzimi in solventi organici*”

#### ***Stages :***

ottobre 1986 - ottobre 1987            Department of Applied Biological Sciences  
 M.I.T., Cambridge (U.S.A.)

giugno 1988                                    Gesellschaft fur Biotechnologische Forschung (GBF)  
 Braunschweig (Germania)

## ***Curriculum Professionale***

Ottobre 2020 – presente            Responsabile Sede Secondaria SCITEC - Milano Mario Bianco  
*Istituto di Scienze e Tecnologie Chimiche “Giulio Natta”*  
 Milano

Ottobre 2019 – Ottobre 2020            Direttore Istituto C.N.R.  
*Istituto di Scienze e Tecnologie Chimiche “G. Natta” - SCITEC*  
 Milano

Aprile 2009 – Settembre 2019            Direttore Istituto C.N.R.  
*Istituto di Chimica del Riconoscimento Molecolare*  
 Milano

Gennaio 2002 – presente            Dirigente di Ricerca C.N.R.  
*Istituto di Chimica del Riconoscimento Molecolare*  
 Milano

maggio 1995 – dicembre 2001            Primo Ricercatore C.N.R.  
*Istituto di Chimica del Riconoscimento Molecolare*  
 (già *Istituto di Biocatalisi e Riconoscimento Molecolare* e, prima, *Istituto di*  
*Chimica degli Ormoni*)  
 Milano

aprile 1984 - maggio 1995            Ricercatore C.N.R.  
*Istituto di Chimica degli Ormoni*  
 Milano

gennaio 1983 - aprile 1984      Ricercatore volontario  
Dipartimento di Chimica Organica ed Industriale  
Università degli Studi di Milano

### ***Riconoscimenti :***

1993                      Medaglia “*G. Ciamician*”  
Divisione di Chimica Organica, Società Chimica Italiana

## **ATTIVITA' GESTIONALE NAZIONALE**

2020 - presente      Responsabile Sede Secondaria SCITEC - Milano - Mario Bianco , C.N.R.  
2019 - 2020          Direttore Istituto di Scienze e Tecnologie Chimiche “Giulio Natta” - SCITEC, C.N.R.  
2009 – 2019          Direttore Istituto di Chimica del Riconoscimento Molecolare, C.N.R.  
2006 – 2009          Responsabile della Commessa “Biocatalizzatori”  
Dipartimento Progettazione Molecolare, CNR  
2002 - 2005          Responsabile della Sezione “Milano 1”  
Istituto di Chimica del Riconoscimento Molecolare  
1996 – 2001          Membro del Consiglio Scientifico  
Istituto di Chimica degli Ormoni  
(poi diventato Istituto di Biocatalisi e Riconoscimento Molecolare)

### ***Responsabile delle Linee di Ricerca dell'Istituto:***

2006 - 2009          Modulo “*Applicazioni sintetiche della biocatalisi*” (Commessa ‘*Biocatalizzatori*’)  
2004 – 2005          Macrolinea : “*Bioconversioni, metodologie analitiche e studi teorici del riconoscimento molecolare*”  
Istituto di Chimica del Riconoscimento Molecolare, C.N.R.  
1994 - 2003          “*Isolamento, caratterizzazione ed utilizzo di enzimi per la formazione del legame carbonio-carbonio e per la modifica di composti naturali*”  
Istituto di Chimica del Riconoscimento Molecolare, C.N.R.

### ***Responsabile di Unità di Ricerca in Programmi di Ricerca finanziati da varie Istituzioni e Industrie Italiane:***

2018-2021          “*IRIDIS*”: *innovative approaches for the treatment of type 2 diabetes mellitus*”  
Regione Lombardia - ex Bando Accordi per la competitività – anno 2017  
2017-2019          “*BIOFLOW: an innovative platform for the in-flow biocatalytic preparation of high value chemicals*”  
Fondazione Cariplo - ex Bando Ricerche integrate sulle biotecnologie industriali e bioeconomia – anno 2016

- 2015-2018      *“La chimica delle formulazioni per il Made in Italy: nuove piattaforme tecnologiche per pelli e tessuti a basso impatto ambientale”*  
Ministero per lo Sviluppo Economico; ex Bando *Nuove Tecnologie per il Made in Italy*
- 2011 - 2013      *“Sintesi di intermedi e/o principi attivi farmaceutici con l’ausilio della catalisi enzimatica”*  
2005 - 2009      Dipharma S.p.A. , contratto di Ricerca
- 2003 - 2009      *“Utilizzo di idrossisteroide deidrogenasi per la trasformazione di acidi biliari”*  
Prodotti Chimici Alimentari S.p.A. , contratto di Ricerca
- 2004 - 2008      *“Sintesi di alcaloidi bisindolici ad opera di laccasi”*  
Indena S.p.A. , contratto di Ricerca
- 2004 - 2005      *“Esterificazioni di oligosaccaridi e polisaccaridi catalizzate da idrolisi in solventi organici”*  
Intercos S.p.A. , contratto di Ricerca
- 2004-2005      *“Realizzazione e sviluppo di nanobiosensori di nuova concezione per lo studio delle interazioni intermolecolari”*  
Regione Lombardia ; Progetto n. 204321, Progetto FSE Ob. 3. Misura D4
- 2003 - 2005      *“Light scattering measurement of the interaction of proteins with self-assembled glycolipid monolayers adsorbed on hydrophobic nanoparticles”*  
Responsabile Unità di ricerca 2  
Progetto FIRB, Protocollo: RBAU01ZJBC, MIUR
- 1996 – 2000      *“Identificazione di attività enzimatiche di interesse industriale”*  
Recordati Industria Chimica e Farmaceutica S.p.A. , contratto di Ricerca
- 1997 – 1998      *“Risoluzione di miscele racemiche di esteri glicidici mediante reazioni di transesterificazione enzimatica con alcoli funzionalizzati”*  
Zambon Group S.p.A. , contratto di Ricerca
- 1989 - 1990      *“Glico-coniugati bioattivi semisintetici”*  
Progetto Speciale  
Comitato Nazionale di Biotecnologie e Biologia Molecolare, C.N.R.

### ***Componente in carica di Comitati e Consigli***

- 2016 – presente      Membro del Consiglio Direttivo  
*Sezione Lombardia, Società Chimica Italiana*
- 2015 – presente      Membro del Consiglio Direttivo  
*Lombardy Green Chemistry Association (Cluster Regionale lombardo di Chimica Verde)*
- 2015 – presente      Membro del Consiglio Scientifico  
*Fondazione Lombardia per l’Ambiente*
- 2015 – presente      Membro del Comitato di Indirizzo della Laurea Magistrale in Biotecnologie Industriali  
*Università di Modena e Reggio Emilia*
- 2013 – presente      Membro del Comitato Scientifico e Tecnologico  
*Consorzio Italbiotec*

## ATTIVITA' GESTIONALE INTERNAZIONALE

- 2005 – presente      Rappresentante Italiano nello *Scientific Committee* dell'ESAB (European Society of Applied Biocatalysis)
- 2013 – 2017          Rappresentante Italiano nel Management Committee dell'Azione COST **CM1303**:  
“*Systems Biocatalysis*”  
Comunità Europea
- 2008 – 2012          Chairman del Management Committee dell'Azione COST **CM0701**:  
“*Cascade chemoenzymatic processes: new synergies between chemistry and biochemistry*”  
Comunità Europea
- 2006 – 2011          Membro del *Subcommittee on Biotechnology* della divisione di Chimica Organica e Biomolecolare della IUPAC
- 2001 – 2007          Rappresentante Italiano nel *Management Committee* dell'Azione COST **D-25**  
“*Applied biocatalysis: stereoselective and environmentally friendly reaction catalyzed by enzymes*”  
Comunità Europea

### ***Responsabile di Unità di Ricerca in Programmi di Ricerca finanziati dalla Comunità Europea:***

- 2001 – 2007          “*New Enzymes and selective methods for glycosidase-catalyzed synthesis of bioactive glycosides and glycomimetics*”  
COST D-25 Working Group 1  
Comunità Europea
- 1996 – 1999          “*Enzymatic lactose valorization*”  
Contratto FAIR CT96 1048  
*Agriculture and Fishery*, IV Programma Quadro C.E.E., 1994-8.

### ***Responsabile di Unità di Ricerca in Programmi Bilaterali finanziati da varie Istituzioni Italiane e Straniere:***

- 2016 – 2018          “*Biomimetic enzymatic synthesis of polyphenolic bio-active molecules*”  
Progetto di Cooperazione CNR – AVCR (Repubblica Ceca)  
Collaboratore: Dr. Vladimir KREN (Accademia delle Scienze Repubblica Ceca, Praga)
- 2013 - 2015          “*Enzymatic synthesis of new hybrid antioxidants based on polyphenols and vitamins*”  
Progetto di Cooperazione CNR – AVCR (Repubblica Ceca)  
Collaboratore: Dr. Vladimir KREN (Accademia delle Scienze Repubblica Ceca, Praga)
- 2008 - 2010          “*Laccases: versatile and efficient biocatalysts for the synthesis of new chemical products*”  
Ministero degli Esteri  
Protocollo di cooperazione scientifica Italia – Sud Africa  
Collaboratore: Prof. Stephanie BURTON (University of Cape Town, Cape Town)

- 2007 - 2008      *“Enzymatic synthesis of glutathione”*  
 Ministero degli Esteri  
 Protocollo di cooperazione scientifica Italia – Quebec (Canada)  
 Collaboratore: Prof. Joelle PELLETIER (University of Montreal, Montreal)
- 2005 - 2007      *“Biocatalytic modification of bioactive natural compounds”*  
 Ministero degli Esteri  
 Protocollo di cooperazione scientifica Italia – Sud Africa  
 Collaboratore: Prof. Stephanie BURTON (University of Cape Town, Cape Town)
- 2005 – 2006      *“Cytotoxic polyhydroxylated steroids. Synthesis and biologic evaluation”*  
 Progetto di Cooperazione CNR-GRICES (Portogallo)  
 Collaboratore: Prof. Maria Luisa Sa e Melo (Università di Coimbra, Coimbra)
- 2004 – 2006      *“Chemo-enzymatic synthesis of sugar-based polymers”*  
 Ministero degli Esteri  
 Protocollo di Cooperazione Scientifica Italia – Austria  
 Collaboratore: Dr. Dietmar HALTRICH (Universitat fur Bodenkultur, Vienna)
- 2003 – 2005      *“Novel biocatalytic methods in glycobiology: preparation of immunoactive oligosaccharides and glycosylated polymers”*  
 NATO Collaborative Linkage Grant  
 Collaboratore: Dr. Vladimir KREN (Accademia delle Scienze Repubblica Ceca, Praga)
- 2003 – 2004      *“Cytotoxic polyhydroxylated steroids. Synthesis and biologic evaluation”*  
 Progetto di Cooperazione CNR-GRICES (Portogallo)  
 Collaboratore: Prof. Maria Luisa Sa e Melo (Università di Coimbra, Coimbra)
- 2002 - 2003      *“Exploitation of oxidative enzymes for the synthesis of pharmaceutical compounds”*  
 Ministero degli Esteri  
 Protocollo di cooperazione scientifica Italia – Sud Africa  
 Collaboratore: Prof. Stephanie BURTON (University of Cape Town, Cape Town)
- 2001 - 2003      *“Enzymatic glycosilation using modified sugar donors and acceptors”*  
 Progetto di Cooperazione CNR – AVCR (Repubblica Ceca)  
 Collaboratore: Dr. Vladimir KREN (Accademia delle Scienze Repubblica Ceca, Praga)
- 1999 - 2001      *“Investigation of the enantioselectivity of Nigella sativa L. seed lipase enzyme”*  
 Progetto di Cooperazione CNR-TUBITAK (Turchia)  
 Collaboratore: Prof. Ayse AKSOY (Istanbul Technical University, Istanbul)
- 1999 – 2000      *“Diastereoselezione nella sintesi enzimatica di cianidrine”*  
 Ministero degli Esteri  
 IV Protocollo di cooperazione scientifica Italia – Austria  
 Collaboratore: Prof. Herfried GRIENGL (Graz Technical University, Graz)
- 1998 – 2000      *“Enzymatic modification of sugars for the synthesis of oligosaccharides and sugar-based polymers”*  
 Progetto di Cooperazione CNR – AVCR (Repubblica Ceca)  
 Collaboratore: Dr. Vladimir KREN (Accademia delle Scienze Repubblica Ceca, Praga)

### **Componente di Comitati Scientifici e/o Organizzativi di Scuole e Congressi**

25. *“Biotrans2019, 14th International Symposium on Biocatalysis and Biotransformations”*  
 Membro del Comitato Scientifico e dello Steering Board  
 Groningen (Olanda), 7-11/7/2019

24. “*Oxizymes 2018*”  
Membro Comitato Scientifico  
Belfast (UK), 8-10/7/2018
23. *IFIB 2017: Italian Forum on Industrial Biotechnology and Bioeconomy*”  
Membro Comitato Scientifico  
Roma, 5-6/10/2017
22. “*Biotrans2017, 13th International Symposium on Biocatalysis and Biotransformations*”  
Membro del Comitato Scientifico e dello Steering Board  
Budapest (Ungheria), 9-13/7/2017
21. *IFIB 2016: Italian Forum on Industrial Biotechnology and Bioeconomy*”  
Membro Comitato Scientifico  
Vicenza, 22-23/9/2016
20. “*Oxizymes 2016*”  
Membro Comitato Scientifico  
Wageningen (Olanda), 3-6/7/2016
19. “*Biotrans2015, 12th International Symposium on Biocatalysis and Biotransformations*”  
Membro del Comitato Scientifico e dello Steering Board  
Vienna (Austria), 26-30/7/2015
18. “*Oxizymes in Wien*”  
Membro Comitato Scientifico  
Vienna (Austria), 1-4/7/2014
17. *IFIB 2015: Italian Forum on Industrial Biotechnology and Bioeconomy*”  
Membro Comitato Scientifico  
Lodi, 24-25/9/2015
16. “*ProtStab2014*”  
Membro Comitato Scientifico  
Stresa, 7-9/5/2014
15. “*IFIB 2013: Italian Forum on Industrial Biotechnology and Bioeconomy*”  
Membro Comitato Scientifico  
Napoli, 22-23/10/2013
14. “*Enzyme Engineering XXI: Emerging topics in enzyme engineering*”  
Membro Comitato Scientifico  
Toyama (Giappone), 22-26/9/2013
13. “*Biotrans2013, 11th International Symposium on Biocatalysis and Biotransformations*”  
Membro Steering Committee  
Manchester (UK), 21-25/7/2013
12. “*Oxizymes in Marseille*”  
Membro Comitato Scientifico  
Marsiglia (Francia), 16-19/9/2012
11. “*Biotrans2011, 10th International Symposium on Biocatalysis and Biotransformations*”  
Chairman del Comitato scientifico e organizzativo  
Giardini Naxos – Taormina , 2-6/10/2011



10. *IBS 2010, 14<sup>th</sup> International Symposium and Exhibition*  
Membro Comitato Scientifico  
Rimini (Italia), 14-18/9/2010.
9. *“First International Symposium and Avanced Course on ‘Active Pharmaceutical Ingredients from bioprocesses: from research to industrial and regulatory issue’ “*  
Pavia, 3-6/06/2009
8. *“Cascade chemoenzymatic processes: new synergies between chemistry and biochemistry: ‘CASCAT’: COST Action CM0701 Kick-off Workshop”*  
Como, 18-20/9/2008
7. *“VIII International Symposium on Catalysis Applied to Fine Chemicals – CAFC-8”*  
Verbania-Pallanza, 16-20/09/2007
6. *“XV Convegno Nazionale di Catalisi – GIC 2007”*  
Tirrenia (Pisa), 10-14/06/2007
5. *“VIII Italian Seminar on Catalysis”*  
Verbania-Pallanza, 19-24/06/2005
4. *“Applied Biocatalysis 2002: COST D-25 Workshop”*  
Como, 10-12/5/2002
3. *“Carb-Link II. Workshop Prague”*  
Praga (Repubblica Ceca), 26-30/5/2000
2. *“Biotrans ’99, 4<sup>th</sup> International Symposium on Biocatalysis and Biotransformations”*  
Giardini Naxos – Taormina , 26/9 – 1/10/1999
1. International Conference on *“Enzymatic synthesis and modification of carbohydrates”*  
University of Warwick, Coventry (UK), 1-3/7/1992

### ***Altre Attività a Carattere Internazionale :***

#### **Commissario per la valutazione di candidati idonei alla assunzione come:**

- Full Professor, Karl Franzens Universat, Graz, Austria
- Full Professor, University of Cape Town, Cape Town, Sud Africa
- Senior Lecturer, Technion – Israel Institute of Technology, Haifa, Israele
- Associate Professor, University of Cape Town, Cape Town, Sud Africa
- Senior Lectureship in Biochemistry, KTH (Royal Institute of Technology), Stockholm, Svezia

#### **Valutatore esterno di programmi di ricerca presentati alla**

- ACS PRF, USA
- South African National Research Foundation (NRF), Sud Africa.
- Grant Agency, Academy of Science of the Czech Republic, Czech Republic
- Netherlands Organization for scientific Research (NOW), Olanda

#### **Controrelatore delle tesi di dottorato’ di:**

14. Stefan SEMILITSCH  
**“Building blocks for polymer synthesis by enzymatic catalysis”**  
Department of Biotechnology, Royal Institut of Technology, Stoccolma (Svezia), 22 settembre 2017

13. Rohana ABU  
**“Process evaluation tools for enzymatic cascades”**  
Department of Chemical and Biochemical Engineering, Denmark Tekniske Universitet, Lyngby (Danimarca),  
*16 Febbraio 2017*
12. Tom BORNER  
**“Amine Transaminase. Process development aspects for chiral amine synthesis”**  
Division of Biotechnology, Department of Chemistry, Faculty of Engineering, Lund University, Lund (Svezia),  
*20 Settembre 2016*
11. Ludovic SCHNEIDER  
**“Systems hybrids photosensibilisateur-laccase pour la catalyse d’oxydation de composes organiques”**  
Faculté de Sciences et Techniques, Aix-Marseille Université, Marseille (Francia), *17 Dicembre 2014*
10. Riku SUNDELL  
**“Studies on lipase selectivity for preparation of cyanohydrins, sugar conjugates and secondary alcohols”**  
Faculty of Medicine, University of Turku, Turku (Finlandia), *24 ottobre 2014*
9. Federica SPINA  
**“Basidiomycetes and thier enzymes: biotechnological and environmental applications”**  
Dottorato in “*Scienza e alta tecnologia*”, indirizzo “*Biologia e biotecnologia dei funghi*”, Università di Torino,  
Torino, *27 marzo 2013*
8. Joao Fernando DOS SANTOS CARVALHO  
**“Synthesis, antitumoral evaluation and structure-activity studies”**  
Facultade de Farmacia, Universidade de Coimbra, Coimbra (Portogallo), *14 dicembre 2010*
7. Magnus ERIKSSON  
**“Lipase catalyzed syntheses of telechelic polyesters”**  
Department of Biotechnology, Royal Institut of Technology, Stoccolma (Svezia), *19 febbraio 2010*
6. Apostolos ALISSANDROTOS  
**“Enzymatic acylation of starch”**  
Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow (Scozia), *10 febbraio 2010*
5. Maria Manuel da CRUZ SILVA  
**“Trasformacoes quimio-enzimaticas em esteroides”**  
Facultade de Farmacia, Universidade de Coimbra, Coimbra (Portogallo), *14 giugno 2005*
4. Ninfa RANGEL PEDERSEN  
**“Enzyme catalyzed synthesis of carbohydrate esters in organic media”**  
Department of Life Sciences, Aalborg University, Aalborg (Danimarca), *29 novembre 2002*
3. David COSTES  
**“Biocatalysis in organic media: parameters influencing activity, stability and enantioselectivity”**  
Kemicerium, Lund University, Lund (Svezia), *18 giugno 2001*
2. Peter DEGN  
**“Enzymatic synthesis of carbohydrate fatty acid esters in organic media”**  
Department of Life Sciences, Aalborg University, Aalborg (Danimarca), *8 giugno 2000*
1. Armando CORDOVA  
**“Regioselective acylation of carbohydrates and polyester synthesis by lipase catalysis”**  
Department of Biotechnology, Royal Institut of Technology, Stoccolma (Svezia), *2 ottobre 1998*

**Membro dell’Advisory Editorial Board delle seguenti riviste:**

- Trends in Biotechnology

**Publicazioni, Brevetti e Comunicazioni Scientifiche (dati riassuntivi)**

- 180** articoli in riviste scientifiche internazionali “peer reviewed”
- 17** reviews in riviste scientifiche internazionali “peer reviewed”
- 2** libri
- 13** capitoli di libro
- 10** contributi pubblicati in libri contenenti i proceedings di Conferenze internazionali
- 14** brevetti
- 51** presentazioni orali a conferenze, workshop e scuole internazionali (43 su invito)
- 25** presentazioni orali a conferenze, workshop e scuole nazionali (17 su invito)
- 45** seminari in Università e Centri di ricerca industriali
- 4** seminari a carattere divulgativo (scuole, centri culturali, ...) su invito
- 189** comunicazioni poster a conferenze nazionali e internazionali

**ORCID** Sergio RIVA : **0000-0002-4753-3571**

<b>SCOPUS</b>	208 documenti	
Citazioni totali 7.711 (media 37,1 per documento)		H-index 42
Senza autocitazioni: 6.916 (media 33,2 per documento)		H-index 37
<b>Web of Science</b>	188 documenti	H-index 40

## ATTIVITA' DIDATTICA

### **Conseguimento Abilitazione Scientifica Nazionale, Professore di Prima Fascia**

Settore concorsuale 03/C1: Chimica Organica

Pubblicazione sul sito MIUR : 11/12/2013

(<https://abilitazione.cineca.it/ministero.php/public/elencodomande/settore/03%252FC1/fascia/1>)

### **Professore a contratto**

Insegnamento di *Biotrasformazioni industriali*

Corso di Laurea Magistrale in Biotecnologie Industriali

Universita' di Modena e Reggio Emilia

Anni Accademici 2013-2014; 2015-2016; 2016-2017; 2017-2018; 2018-2019; 2019-2020

### **Professore a contratto**

Insegnamento di *Biocatalisi*

Corso di Laurea Triennale in Biotecnologie, indirizzo Industriale

Universita' di Modena e Reggio Emilia

Anni Accademici 2007-2008 ; 2008-2009, 2009-2010, 2010-2011, 2011-2012

### **Professore a contratto**

Insegnamento di *Biochimica Industriale*, Modulo di *Prodotti e processi biotecnologici industriali 1*

Corso di Laurea Triennale in Biotecnologie, indirizzo Industriale

Universita' di Modena e Reggio Emilia

Anni Accademici 2002-2003; 2003-2004; 2004-2005; 2005-2006; 2006-2007

### **Professore a contratto**

Insegnamento di *Biochimica Industriale*

Corso di Laurea in Biotecnologie, indirizzo Industriale (vecchio ordinamento)

Universita' di Modena e Reggio Emilia

Anni Accademici 1999-2000 ; 2000-2001 ; 2001-2002; 2002-2003

### **Professore a contratto**

Lezioni (10 ore) su "*Utilizzo degli enzimi in sintesi organica*"

Insegnamento di *Chimica Bioorganica*

Corso di Laurea in Chimica (Lurea triennale)

Universita' di Milano

Anni Accademici 2008-2009; 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014;  
2014-2015; 2015-2016; 2016-2017; 2017-2018; 2019-2020

### **Professore a contratto**

Lezioni (20 ore) su "*Utilizzo degli enzimi in sintesi organica*"

Insegnamento di *Chimica Bioorganica*

Corso di Laurea in Chimica (vecchio ordinamento)

Universita' di Milano

Anni Accademici 1999-2000 e 2000-2001

### **Lezioni varie a:**

- Master Degree in "*Industrial Pharmaceutical Chemistry*", Faculdade de Farmacia, Universidade de Coimbra, Coimbra (Portogallo) . 2011-2015; 2017
- Master in "*Progettazione e sviluppo di farmaci*", Università di Pavia : 2003-2020
- Dottorato in "*Scienze Chimiche*", Università di Milano : 2003 , 2013 , 2017

- Dottorato in “*Chimica del Farmaco*”, Università di Milano : 2001; 2019
- Scuola di Specializzazione in “*Sintesi chimica*”, Università di Milano : 1989-2001
- Scuola di Specializzazione in “*Applicazioni biotecnologiche*”, Università di Milano : 1991-1992
- Corso di “*Biocatalisi in sintesi organica*”, Politecnico di Milano : 1993 - 1995
- 4<sup>th</sup> *Advanced Course on Applied Biocatalysis*, European Federation of Biotechnology, Working Party on Applied Biocatalysis, Portoroz (Slovenia) : 1998

**Relatore Tesi di Laurea (vecchio ordinamento):**

*Biotechnologie* (Università di Modena e Reggio Emilia) **3**

**Relatore Tesi di Laurea Magistrali:**

*Biotechnologie Industriali* (Università di Modena e Reggio Emilia) **3**

**Correlatore Tesi di Laurea Magistrale**

*Chimica* (Università di Milano) **3**

*Chimica Industriale* (Università di Milano) **1**

*Biotechnologie Industriali* (Università di Modena e Reggio Emilia) **6**

*Biotechnologie Industriali* (Università di Parma) **1**

**Correlatore Tesi di Laurea di Primo Livello**

*Biotechnologie* (Università di Milano Bicocca) **1**

*Chimica* (Università di Milano) **2**

**Correlatore Tesi di Laurea (vecchio ordinamento):**

*Chimica* (Università di Milano) **25**

*Chimica Industriale* (Università di Milano) **3**

*Biologia* (Università di Milano) **9**

*Scienze Preparazioni Alimentari* (Università di Milano) **1**

*Chimica e Tecnologia Farmaceutiche* (Università di Milano) **4**

*Biotechnologie* (Università di Milano Bicocca) **1**

**Correlatore Tesi di Dottorato**

*Scienze Chimiche* (Università di Milano) **2**

*Chimica Industriale* (Università di Milano) **1**

*Chimica del Farmaco* (Università di Milano) **1**

**Correlatore Tesi di Master di Secondo Livello**

*Progettazione e Sviluppo di Farmaci* (Università di Pavia) **1**

**Correlatore Tesi di Specialita'**

*Biotechnologie* (Università di Milano) **1**

*Scienza dei Polimeri* (Politecnico di Milano) **1**

**Controrelatore Tesi di Dottorato Estere** **14**

**Controrelatore Tesi di Dottorato Italiane** **1**

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 Brevetto Ceco CZ302204, depositato il 21/10/2009, approvato il 5/11/2010, pubblicato il 15/12/2010
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### **e) ELENCO ATTIVITA' CONGRESSUALI e SEMINARIALI**

#### **LECTURES su INVITO a CONVEGNI e WORKSHOPS**

- 60 **S. RIVA**  
 “Hydroxysteroid dehydrogenases: An ongoing story”  
*Convegno Nazionale della Divisione di Chimica dei Sistemi Biologici della Società Chimica Italiana*  
 Siena 11-13/9/2019



- 59 **S. RIVA**  
“Biocatalysis: the green side of chemistry”  
*JICOA 2018, 4emes Journées Internationales de Chimie Organique de Annaba*  
Annaba (Algeria), 1-3/12/2018
- 58 **S. RIVA**  
“Multistep biotransformations: from multifunctional substrates to cascade enzymatic reactions”  
*4<sup>th</sup> MECPI8 (Multistep enzyme Catalyzed Processes Congress)*  
Trondheim (Norvegia), 19-22/3/2018
- 57 **S. RIVA**  
Biocatalysis: an efficient and sustainable tool to solve industrial problems?  
*ISPC 2017 (International School of Process Chemistry)*  
Gargnano (Brescia) 26-29/3/2017
- 56 **S. RIVA**  
Biocatalysis: the green side of chemistry  
*SILAE 2016*  
Modena 11-15/9/2016
- 55 **S. RIVA**  
Laccases: blue enzymes for green chemistry  
Workshop: *INBOX :IN nnovative Biocatalytic Oxidations, mid-term meeting*  
Milano 20/6/2016
- 54 **S. RIVA**  
Biocatalysis: an efficient and sustainable tool to solve industrial problems  
Workshop: *NMR day “Industrial applications of proteins: what role for NMR?”*  
Firenze 15/6/2016
- 53 **S. RIVA**  
In situ redox cofactor regeneration as a driving force for cascade reactions  
*COST CM1303 – Training school “Systems Biocatalysis” 2016*  
Certosa di Pontignano (Siena) 27/4- 1/5/2016
- 52 **S. RIVA**  
Laccases: Blue enzymes for green chemistry  
Workshop on *Development and Application of Enzymes in Biotechnology*  
Dusseldorf (Germany) 14-15/4/2015
- 51 **S. RIVA**  
Biocatalysis and natural products: a fruitful interaction  
*VII Workshop on Biocatalysis and Biotransformations*  
Buzios (Brasile) 23-25/9/2014
- 50 **S. RIVA**  
Laccase-catalyzed oxidation of phenolic derivatives  
*10<sup>th</sup> International Conference on Renewable Resources and Biorefineries*  
Valladolid (Spagna) 4-6/6/2014
- 49 **S. RIVA**  
Fishing good substrates with hydroxysteroid dehydrogenases  
*Enzyme Engineering XXI: Emerging topics in enzyme engineering*  
Toyama (Giappone) 22-26/9/2013
- 48 **S. RIVA**  
Laccases: blue enzymes for green chemistry

38<sup>th</sup> FEBS Congress  
St. Petersburg (Russia) 6-11/7/2013

- 47 **S. RIVA**  
The quest for mild and efficient oxidative agents: synthetic exploitation of laccases  
4<sup>th</sup> EuCheMS Chemistry Congress  
Praga (Repubblica Ceca) 26-30/8/2012
- 46 **S. RIVA**  
In situ regeneration systems of redox cofactors for cascade applications  
COST CM0701 – Training school in Cascade Chemoenzymatic Processes  
Certosa di Pontignano (Siena) 27/4- 1/5/2011
- 45 **S. RIVA**  
Laccase-catalyzed oxidation of natural compounds  
Laccase Academy  
Porto (Portugal) 8-10/3/2010
- 44 **S. RIVA**  
Enzymes in organic solvents: Synthetic Applications  
BioNoCo Extension Course on Biocatalysis in Organic Solvents  
Aachen (Germania), 29/10/2009
- 43 **S. RIVA**  
One-pot multistep enzymatic synthesis of 12-ketoursodeoxycholic acid: subtle cofactor specificities rule the reaction equilibria of five biocatalysts working in a row  
Italy – Japan Symposium: New Trends in Enzyme Science and Technology  
Napoli 26-29/10/2009
- 42 **S. RIVA**  
In situ regeneration systems of redox cofactors for cascade applications in steroid modifications  
COST CM0701 – Training school in Cascade Chemoenzymatic Processes  
Certosa di Pontignano (Siena) 29/4- 3/5/2009
- 41 **S. RIVA**  
Applicazioni sintetiche della biocatalisi  
Bioforum 2008  
Milano (Italy) 1-2/10/2008
- 40 **S. RIVA**  
Laccases-catalyzed oxidation of natural compounds  
Gordon Research Conference on Biocatalysis  
Bryant University, Smithfield, RI (USA) 6-11/7/2008
- 39 **S. RIVA**  
The modification of natural products.  
COST D25 – Training school in Biocatalysis  
Certosa di Pontignano (Siena) 28/4- 3/5/2007
- 38 **S. RIVA**  
Exploitation of laccases for the mild and selective oxidation of natural compounds.  
22 Organisk kjemiske vintermotet  
Roros (Norvegia) 11-14/1/2007
- 37 **S. RIVA**  
Synthetic exploitation of biocatalysis. An overview.  
Biocatalysis and pharmaceuticals – Workshops in Pharmaceutical and Biomedical Sciences

Coimbra (Portogallo) 14/12/2006

36 **S. RIVA**

Synthetic exploitation of oxidoreductases: examples with laccases and hydroxysteroid dehydrogenases  
*Japan-Italy Symposium on 'New Trends in Enzyme Science and Technology'*  
Nagoya (Giappone), 15-17/11/2006

35 M. Marzorati, D. Monti, F. Sagui, **S. RIVA**

Laccase-mediated oxidation of natural compounds  
*Biocat 2006 – Third International Congress on Biocatalysis*  
Amburgo (Germania), 3-7/9/2006

34 **S. RIVA** (2006)

“Synthetic exploitation of biocatalysis: an overview”  
*ESMEC – European School of Medicinal Chemistry*  
Urbino, 2-7/7/2006.

33 **S. RIVA** (2006)

“Enzymes and carbohydrates: a fruitful interaction”  
*X Convegno-scuola sulla chimica dei carboidrati*  
Certosa di Pontignano (SI) , 25-29/6/2006.

32 **S. RIVA** (2005)

“Biocatalytic modification of the glycosidic moiety of the complex glycoside asiaticoside”  
*4<sup>th</sup> Meeting of the COST Working Group on “New enzymes and selective methods for glycosidase-catalyzed synthesis of bioactive glycosides and glycomimetic”*  
Barcellona (Spagna), 6-7/4/2005

31 **S. RIVA** (2004)

“Preparative scale biotransformations in aqueous solutions”  
*Green Solvents for Synthesis*  
Bruchsal (Germany), 3-6/10/2004

30 **S. RIVA** (2004)

“Lipase-catalyzed regioselective acylation of steroid derivatives”  
*II International Workshop on Synthesis, testing and applications of inhibitors of lipolytic enzymes*  
Roma, 2/7/2004

29 **S. RIVA** (2004)

“Remote stereocenter discrimination in the enzymatic resolution of piperidine 2-ethanol”  
*First meeting of the Working Group D28/008/03: Stereoselective synthesis of piperidine derivatives as useful synthons for target-oriented and diversity-oriented synthesis of bioactive natural products and analogues”*  
Milano, 27/3/2004

28 **S. RIVA** (2004)

“Idrolasi: trasformazioni enantioselettive”  
*Terzo laboratorio di metodologie sintetiche in chimica farmaceutica*  
Siena, 15-20/2/2004

27 **S. RIVA** (2004)

“Biocatalyzed generation of molecular diversity: modification of natural glycosides by lipases, glycosidases and glycosyltransferases”  
*IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications*  
New Delhi (India), 26-31/1/2004

- 26 **S. RIVA** (2003)  
“Biocatalyzed formation of carbon-carbon bond”  
*Italy-Japan Symposium. New trends in enzyme science and technology*  
Napoli, 9-11/12/2003
- 25 **S. RIVA** (2003)  
“Sintesi stereoselettive mediante enzimi”  
*Bionova: forum and exhibition on Biotechnology and Bioengineering*  
Padova, 4-6/6/2003
- 24 **S. RIVA** (2003)  
“Biocatalisi: una metodologia utile e versatile per la sintesi organica”  
*Trends in Biocatalysis and Industrial Biotechnology*  
Cittadella Universitaria di Monserrato, Università di Cagliari, 4/4/2003
- 23 **S. RIVA** (2002)  
“Biocatalysis: a versatile and useful tool for organic synthesis”  
*Primer Encuentro Argentino sobre Biocatalisis y Biotransformaciones*  
Bueno Aires (Argentina), 10-11/10/2002
- 22 **S. RIVA** (2002)  
“Biocatalyzed kinetic resolution of racemates. Some case studies”  
*Biocatalysis – 2002: fundamentals and applications*  
Mosca (Russia), 22-27/6/2002
- 21 **S. RIVA** (2001)  
“Enzymatic elaboration of sugar derivatives”  
*BioTrans 2001*  
Darmstadt (Germania), 2-7/9/2001
- 20 **S. RIVA** (2000)  
“Modulation of enzyme selectivity by medium engineering”  
*Simposio su “Modulation of enzyme properties by protein and medium engineering”*  
AIBB (Associazione Italiana di Biocatalisi e Bioseparazioni)  
Milano, 20/10/2000
- 19 **S. RIVA** (2000)  
“La catalisi enzimatica: un valido supporto alla sintesi organica”  
*Corso avanzato in Chimica Farmaceutica e Seminario nazionale per dottorandi “E. Duranti”*  
Urbino, 2-6/7/2000
- 18 **S. RIVA** (1999)  
“Exploiting enzymatic catalysis in organic synthesis”  
*Simposio su “Nuovi orientamenti nella sintesi organica”*  
Milano, 29/11/1999
- 17 **S. RIVA** (1998)  
a) “When and why should non-conventional media be used ?”  
b) “Scope of biocatalysis in non-conventional media”  
*4<sup>th</sup> Advanced course on applied biocatalysis*  
Portoroz (Slovenia), 22-26/9/1998.
- 16 **S. RIVA** (1997)  
“Metodi enzimatici di marcatura”  
*Simposio su “Metodologie di marcatura di composti di interesse bio-medico”*  
Milano, 4/12/1997

- 15 **S. RIVA** (1997)  
“Enzymatic modification of natural compounds with pharmacological properties”  
*Enzyme Engineering XIV*  
Beijing (Cina), 12-17/10/1997
- 14 **S. RIVA**, D. Monti, E. Giosue', F. Zambianchi (1997)  
“Unusual substrates for the  $\beta$ -1,4-galactosyltransferase from bovine colostrum”  
*Symposium on “Advances in Biocatalysis I”, 213th American Chemical Society National Meeting*  
San Francisco, Ca (USA), 13-17/4/1997.
- 13 G. Carrea, G. Ottolina, P. Pasta, **S. RIVA** (1995)  
“Synthetic applications of NAD(P)(H) dependent enzymes”  
*Enzyme Engineering XIII*  
San Diego (California), 15-20/10/1995
- 12 **S. RIVA**, G. Carrea, B. Danieli (1995)  
“Enzymatic regioselective modification of polyhydroxylated natural compounds in organic media”  
*CBSO Club “Bioconversion en synthese organique”, Colloque franco-italien*  
La-Londe-les-Maures (Francia), 29/5-1/6/1995
- 11 **S. RIVA** (1994)  
“Catalytic antibodies”  
*First International ITALIAN-GERMAN workshop on Biocatalysis*  
Milano, 7-8/10/1994
- 10 **S. RIVA** (1994)  
“Regioselective modification of polyhydroxylated natural compounds”  
*Annual meeting of the Worwick Biotransformation Club*  
Siena, 10-14/9/1994
- 9 **S. RIVA** (1993)  
“Catalisi enzimatica in solventi organici”  
*Memorial Lecture Vincitore Medaglia “G. Ciamician” 1993*  
*XXI Convegno Nazionale della Divisione di Chimica Organica*  
Terrasini (PA), 28/9-2/10/1993
- 8 **S. RIVA** (1993)  
“Regioselectivity of biocatalysis”  
*Workshop “Biocatalysis in non-aqueous media”; 6th European Congress on Biotechnology*  
Firenze, 13-17/6/1993
- 7 G. Carrea, A. Pilotti, **S. RIVA** (1993)  
“Enzymatic synthesis of 12-ketoursodeoxycholic acid in a membrane reactor”  
*Symposium on ‘Advances in Biocatalysis and Protein Engineering’, 205th American Chemical Society National Meeting*  
Denver, Co (USA), 28/3 - 2/4/1993.
- 6 **S. RIVA** (1992)  
“Synthetic applications of NAD(P)(H)-dependent enzymes”  
*Korea-Italy Biotechnology Symposium*  
Trieste, 21-24/4/1992.
- 5 **S. RIVA** (1991)  
“Hydrolytic enzymes in carbohydrates chemistry”  
*CISCI 91*  
Chianciano Terme, 6-11/10/1991

- 4 G. Carrea, **S. RIVA** (1991)  
“Exploiting enzymatic regio- and enantioselectivity in natural compounds synthesis”  
*Enzyme Engineering XI*  
Kailua-Kona, Hawaii (USA), 22-27/9/1991
- 3 **S. RIVA** (1991)  
“Regioselective chemo-enzymatic modification of polyhydroxylated compounds”  
*Symposium on non-aqueous enzymology; The Fourth Chemical Congress of North America*  
New York, USA, 25-30/8/1991.
- 2 **S. RIVA** (1990)  
“Enzimi in solventi organici”  
*Incontri scientifici - 45° Fiera Campionaria Internazionale del Mediterraneo*  
Palermo, 31/5-5/6/1990.
- 1 **S. RIVA** (1989)  
“Trasformazioni chimiche catalizzate da enzimi in solventi organici”  
*XIV Corso estivo “A. Corbella”*  
Palazzo Feltrinelli, Gargnano (BS), 19-23/6/1989.

#### SEMINARI IN UNIVERSITA' E CENTRI DI RICERCA ACCADEMICI O INDUSTRIALI

- 45 Biosphere srl, Bertinoro (FO), 14/11/2019  
“**La biocatalisi nella produzione di API**”
- 44 Dipartimento di Scienze Chimiche e Farmaceutiche, Università di Ferrara, Ferrara, 27/6/2019  
“**Multistep biotransformations: from multifunctional substrates to cascade enzymatic reactions**”
- 43 Dipartimento di Scienze del Farmaco, Università del Piemonte Orientale, Novara, 26/6/2019  
“**Multistep biotransformations: from multifunctional substrates to cascade enzymatic reactions**”
- 42 Dipartimento di Biotecnologie Mediche e Medicina Traslazionale, Università di Milano, 30/5/2019  
“**The power of evolution**”
- 41 Dipartimento di Scienze Farmaceutiche, Università di Milano, 20/2/2019  
“**Biocatalyzed production of active pharmaceutical intermediates**”
- 40 Dipartimento di Chimica, Università di Bologna, Bologna, 18/5/2018  
“**Imitando la natura: reazioni enzimatiche a cascata**”
- 39 School of Biochemistry, University of Bristol, Bristol (UK), 20-4-2018  
“**Fishing good substrates with hydroxysteroid dehydrogenases**”
- 38 Institute of Microbiology, Academy of Sciences of the Czech Republic, Praga, 8-2-2018  
“**Laccases and phenols: interactions between good “friends”**”
- 37 KTH Biotechnology, Stockholm (Svezia) 21-9-2017  
“**Biocatalysis and natural products: A fruitful interaction**”
- 36 Dipartimento di Chimica e Chimica Industriale, Università di Genova, 12-6-2017  
“**Un caso di proficua interazione: biocatalisi e prodotti naturali**”
- 35 Department of Chemistry, Tbilisi State University (Georgia), 13-7-2015  
“**Biocatalysis and natural products: A fruitful interaction**”
- 34 Istituto di Chimica Biomolecolare - UOS di Sassari, CNR, Area della Ricerca di Sassari, 6-2-2015

**“Biocatalisi e prodotti naturali: un’interazione molto positiva”**

- 33 Institut des Sciences Moléculaires de Marseille “iSm2”, Aix-Marseille Université, 16-12-2014  
**“Biocatalysis and natural products: a fruitful interaction”**
- 32 Dipartimento di Scienze della Vita e Biologia dei Sistemi, Università di Torino, 27-3-2013  
**“Laccase: blue enzymes for green chemistry”**
- 31 University of the Western Cape, Cape Town (South Africa), 1-12-2010  
**“Laccase-catalyzed oxidation of natural compounds”**
- 30 Cape Peninsula University of Technology, Cape Town (South Africa), 30-11-2010  
**“Synthetic exploitation of biocatalysis : selective modification of steroids”**
- 29 DISCAFF, Facoltà di Farmacia, Università del Piemonte Orientale, Novara, 29-9-2010  
**“Applicazioni sintetiche della biocatalisi: modifica selettiva di steroidi”**
- 28 Technische Universität Darmstadt, Darmstadt (Germania), 16-6-2010  
**“Laccase-catalyzed oxidation of natural compounds”**
- 27 KTH Biotechnology, Stockholm (Svezia) 25-3-2010  
**“Laccases: blue enzymes for green chemistry”**
- 26 Institute of Microbiology, Acad. Sciences of the Czech Republic, Praga (Rep. Ceca), 28-8-2009  
**“Five enzymes working in a row to get the one-pot multistep synthesis of steroid derivatives”**
- 25 Dipartimento di Scienze Farmacologiche, Università di Trieste, Trieste 18-11-2008  
**Utilizzo di laccasi per l’ossidazione di composti naturali**
- 24 Departement Chemical Engineering, University of Cape Town, Cape Town (South Africa) 10-10-2008  
**Enzymes and carbohydrates: a fruitful interaction**
- 23 Departement Chemical Engineering, University of Cape Town, Cape Town (South Africa) 10-10-2008  
**Laccase: blue enzymes for green chemistry**
- 22 Departement de Chimie, Université de Montreal, Montreal (Canada) 28-10-2008  
**Laccase-mediated oxidation of natural compounds**
- 21 Biotechnology Research Institute, National Research Council of Canada, Montreal (Canada) 9-10-2008  
**Enzymes and carbohydrates: a fruitful interaction**
- 20 Research Center of Applied Biocatalysis, Graz University of Technology, Graz (Austria) 30-11-2006  
**Laccase-mediated oxidation of natural compounds**
- 19 Department für Lebensmittelwissenschaften, Universität für Bodenkultur, Wien (Austria) 29-11-2006  
**Laccase-mediated oxidation of natural compounds**
- 18 Centro de Estudos Farmaceuticos, Universidade de Coimbra (Portogallo), 25-11-2004  
**Biocatalysis: a versatile and useful tool for organic synthesis**
- 17 Dipartimento di Biotecnologie e Bioscienze, Università di Milano Bicocca, 18-6-2004  
**“Selettività enzimatica e complessità molecolare: bioconversioni di carboidrati”**
- 16 Institut d’Investigacions Químiques i Ambientals de Barcelona (Spagna), 5-12-2003  
**“Exploitation of oxynitrilases and laccases for the biocatalyzed formation of C-C bonds”**
- 15 Institute of Microbiology, Acad. Sciences of the Czech Republic, Praga (Rep. Ceca), 17-2-2003  
**“Biocatalytic kinetic resolution of racemates: case studies”**

- 14 Fluka, Buchs (Svizzera), 8-1-2003  
“Enzymes and carbohydrates: a profitable synthetic interaction”
- 13 Institute for Bioteknologi, Aalborg Universitet, Aalborg (Danimarca), 28-11-2002  
“Biocatalysis: a versatile and useful tool for organic synthesis”
- 12 Department of Chemical Engineering, Univ. of Cape Town, Cape Town (Sud Africa), 28-5-2002  
“Biocatalysis: a versatile and useful tool for organic synthesis”
- 11 Istituto di Chimica Farmaceutica e Tossicologica, Università di Milano, 4-4-2001  
“Formazione del legame C-C con sistemi enzimatici”
- 10 Institute for Bioteknologi, Aalborg Universitet, Aalborg (Danimarca), 9-10-2000  
“Regioselective enzymatic modification of natural glycosides”
- 9 Chemical Engineering Dept., Istanbul Technical University, Istanbul (Turchia), 15-10-1999  
“Synthetic application of lipases in organic solvents”
- 8 Institut fur Organische Chemie, Universitat Hamburg, Amburgo (Germania), 1-3-1999  
“Enzymatic regioselective acylation of sugar derivatives”
- 7 Institute of Microbiology, Acad. Sciences of the Czech Republic, Praga (Rep. Ceca), 7-12-1998  
“C-Glucosides and natural glucosides: unusual substrates for the bovine  $\beta$ -1,4-galactosyltransferase”
- 6 Institute of Microbiology, Acad. Sciences of the Czech Republic, Praga (Rep. Ceca), 3-12-1998  
“Enzymatic acylations of natural glycosides in organic solvents”
- 5 Institut fur Organische Chemie, Technische Universitat Graz, Graz (Austria), 29-1-1998  
“C-Glucosides and natural glucosides: unusual substrates for the  $\beta$ -1,4-galactosyltransferase from bovine colostrum”
- 4 Universita' degli Studi della Basilicata, Potenza, 18-2-1997  
“Biocatalisi con ossidoriduttasi, glicosiltrasferasi e ossinitrilasi”
- 3 Altus Biologics Inc., Cambridge (Ma), USA, 23-10-1995  
“Synthetic applications of NAD(P)(H) dependent enzymes”
- 2 Lepetit Research Center, Gerenzano (Va), 27-2-1995  
“Catalisi enzimatica in solventi organici”
- 1 Universita' di Firenze, 15-12-1987  
“Reazioni enzimatiche in solventi organici”

#### SEMINARI A CARATTERE DIVULGATIVO (SCUOLE, CENTRI CULTURALI, ...)

- 4 **S. RIVA** (2017)  
“Cause dell'inquinamento e possibili soluzioni”  
3° *Convegno Scientifico su “Antropocene: emergenza ambiente e responsabilità dell'uomo”*  
Liceo Scientifico e Classico “E. Majorana”  
Desio (MB), 10/4/2017
- 3 **S. RIVA** (2016)  
“Misteriosa è l'acqua”  
Centro Culturale “Talamoni”



Monza (MB), 27/5/2016

- 2 **S.RIVA** (2014)  
“Il linguaggio delle molecole”  
*SCIENZA FIRENZE*  
Firenze, 10-11/4/2014
- 1 **S.RIVA** (2006)  
“Dall’acqua ... la vita”  
*SCIENZA FIRENZE*  
Firenze, 20-21/4/2006

#### ALTRE COMUNICAZIONI ORALI a CONVEGNI

- 16 **I. Bassanini, S. RIVA**  
Laccase-catalyzed dimerization of substituted phenols: an update  
*Oxizymes 2018*  
Belfast (UK), 8-10/7/2018
- 15 **S. RIVA, I. Bassanini, P. Gavezzotti, D. Monti** (2018)  
Blue enzymes for green chemistry: Laccases-catalyzed dimerization of substituted phenols.  
*CDCO2018 – “XXXVIII Convegno Nazionale della Divisione di Chimica Organica della Società Chimica Italiana”*  
Milano 9-13/9/2018
- 14 **S. RIVA, I. Bassanini, D. Monti, J. Krejzova, V. Kren** (2017)  
Synthesis and dimerization of glycosylated phenylpropenols catalyzed by glycosidases and laccases.  
*COST Action CM1407 – “Challenging organic synthesis inspired by nature”, 3rd Meeting*  
Krakow (Polonia) 2-3/3/2017
- 13 **P. Gavezzotti, C. Navarra, S. Cauffin, D. Monti, S. RIVA**, (2012)  
Synthesis of enantiomerically enriched dimers of vinylphenols by tandem action of laccases and lipases.  
*Oxizymes in Marseille*  
Marsiglia (Francia) 16-19/9/2012
- 12 **S. RIVA** (2012)  
“Biocatalysis: an efficient and sustainable tool to solve industrial problems?”  
*XXXIV Convegno della Divisione di Chimica Organica, Società Chimica Italiana*  
Pavia, 10-14/9/2012.
- 11 **S. RIVA, M. Marzorati, D. Monti, S. Nicotra** (2008)  
Synthetic exploitation of laccases for the selective modification of natural compounds.  
*4<sup>th</sup> European Meeting on Oxizymes*  
Helsinki (Finlandia) 16-18/6/2008
- 10 **S. RIVA** (2005)  
“Laccases: blue enzymes for green chemistry”  
*Enzyme Engineering XVIII*  
Gyeongju (South Korea), 9-14/10/2005
- 9 **S. RIVA** (2002)  
“Examples of bio-catalyzed formation of glycosidic bonds”

*VIII Convegno sulla chimica dei carboidrati*  
Milano, 13-15/6/2002.

- 8 G. Russo, L. Panza, D. Monti, F. Zambianchi, **S. RIVA** (1996)  
“C-Glycosides and natural glucosides: unusual substrates for the  $\beta$ -1,4-galactosyltransferase from bovine colostrum”  
*XVIII International Carbohydrate Symposium*  
Milano, 21-26/7/1996
- 7 B. Danieli, C. Barra, G. Roda, G. Carrea, **S. RIVA** (1996)  
“Almond oxynitrilase catalyzed transformation of substituted aldehydes”  
*Biocatalisi e sintesi organica*  
Acquafredda di Maratea (Pz), 3-5/5/1996
- 6 G. Carrea, B. Danieli, M. Luisetti, **S. RIVA** (1996)  
“Regioselective acylation of polyhydroxylated natural compounds catalyzed by *Candida antarctica* lipase in organic solvents”  
*International workshop on microbial lipases in the biocatalysis*  
Roma, 11-13/4/1996
- 5 D. Monti, L. Panza, **S. RIVA** (1995)  
“Manipolazione enzimatica di carboidrati”  
*Convegno nazionale su orientamenti in chimica farmaceutica, organica e bioorganica*  
Numana (AN), 2-6/6/1995
- 4 **S. RIVA**, G. Carrea, B. Danieli (1991)  
“Modificazioni regioselettive chemo-enzimatiche di composti poliossidrilati”  
*I° Convegno Nazionale su “Enzimi e Microorganismi nella sintesi organica”*  
Sestri Levante (GE), 19-20/9/1991
- 3 A. Bertario, B. Redigolo, P. DeBellis, B. Danieli, G. Carrea, **S. RIVA** (1991)  
“Acilazioni chemo-enzimatiche regioselettive di composti poliossidrilati”  
*NAT 2, Giornate di chimica delle sostanze naturali*  
Maratea, 2-5/6/1991
- 2 **S. RIVA** (1988)  
“Esterificazioni enzimatiche regioselettive in solvente organico”  
*BONONIA-CHEM 88, XVI Congresso nazionale di chimica*  
Bologna, 9-14/10/1988.
- 1 **S. RIVA** (1988)  
“Esterificazione regioselettiva di zuccheri catalizzata da proteasi in dimetilformammide anidra”  
*II Convegno sulla chimica dei carboidrati*  
Milano, 29-30/4/1988

## COMUNICAZIONI POSTER a CONVEGNI

- 45 I. Bassanini, J. Krejzová, D. Monti, V. Křen, **S. RIVA**  
 “A sustainable one-pot two-enzymes synthesis of naturally occurring aryl alkyl glucosides”  
*BIOTRANS 2017, 13<sup>th</sup> International Symposium on Biocatalysis and Biotransformations*  
 Budapest (Ungheria), 9-13/7/2017
- 44 **S. RIVA**, P. Gavezzotti, E. Vavrikova, L. Kalachova, K. Valentova, G. Fronza, T. Kudanga, V. Kren  
 “Enzymatic dimerization of the sylimarin flavolignans silybin and silydianin”  
*Oxizymes*,  
 Wien (Austria) 1-4/7/2014.
- 43 **S. RIVA**, F. Bertacchi, G. Fronza, V. Kren, P. Gavezzotti  
 “Laccase-catalyzed dimerization of piceid and its further enzymatic elaboration”  
*Ibid*
- 42 P. Gavezzotti, **S. RIVA**, C. Navarra, D. Monti, V. Kren  
 “Exploitation of glycosidases for the selective modification of bioactive natural glycosides”  
*10<sup>th</sup> Carbohydrate Bioengineering Meeting*,  
 Prague (Czech Republic) 21-24/4/2013.
- 41 P. Gavezzotti, C. Navarra, S. Caufin, B. Danieli, P. Magrone, D. Monti, **S. RIVA**  
 “Synthesis of enantiomerically enriched dimers of vinylphenols by tandem action of laccases and lipases”  
*Gordon Research Conference on Biocatalysis*,  
 Bryant University, Smithfield, RI (USA) 8-13/7/2012.
- 40 E.E. Ferrandi, D. Monti, **S. RIVA**  
 “Cloning, overexpression and characterization of novel 7-hydroxysteroid dehydrogenases for the multienzymatic synthesis of bile acids”  
*XI National Congress of Biotechnology – CNB XI*,  
 Varese (Italia) 27-29/6/2012.
- 39 C. Navarra, S. Caufin, D. Monti, B. Danieli, **S. RIVA**  
 “Laccase-catalyzed oxidation of phenolic derivatives”  
*14<sup>th</sup> International Biotechnology Symposium and Exhibition – IBS 2010*,  
 Rimini (Italia) 14-18/9/2010.
- 38 C. Navarra, S. Caufin, D. Monti, B. Danieli, **S. RIVA**  
 “Laccase-catalyzed acylation of vinyl phenols”  
*BIOTRANS 2009, 9<sup>th</sup> International Symposium on Biocatalysis and Biotransformations*  
 Berne (Svizzera), 5-9/7/2009.
- 37 L. Roncaglia, D. Monti, **S. RIVA**, S. Gebhardt, M. Schubert-Zsilavecz, B. Danieli  
 “Regioselective enzymatic acylation of cardiac glycosides”  
*BIOTRANS 2007, 8<sup>th</sup> International Symposium on Biocatalysis and Biotransformations*  
 Oviedo (Spagna), 8-13/7/2007.
- 36 P. Fassi, E. Serafini, G. Ottolina, M. Fraaije, P. Allegrini, **S. RIVA**  
 “Enzymatic approaches to (*R*)-modafinil”  
*Ibid.*
- 35 **S. RIVA**, M. Marzorati, K. Hult, B. Danieli, (2006)  
 “Substituted amines as chemical initiator for the lipase-catalyzed lactone Ring Opening Polymerization”  
 Gordon Conference on *Biocatalysis*  
 Bryant University, RI (USA), 9-14/7/2006
- 34 **S. RIVA**, M. Lama, D. Monti, A. Pisevcova, V. Kren (2003)

- “Produzione di una libreria di  $\alpha$ -L-ramnosidasi e suo utilizzo per la modifica di glicosidi naturali”  
*VI Convegno Nazionale di Chimica delle Sostanze Naturali*  
Vietri sul Mare (SA), 29/9 – 1/10/2003
- 33 **S. RIVA**, A. Intra, A. Bava, G. Nasini (2003)  
“Acilazioni enzimatiche regioselettive di sesquiterpeni poliossidrilati”  
*Ibid.*
- 32 A. Intra, G. Nasini, **S. RIVA** (2003)  
“Regioselective enzymatic acylation of polyhydroxylated sesquiterpenoids”  
*Biotrans 2003*, Olomouc (Czech Republic), 28/6- 3/7/2003
- 31 S. Raimondi, L. Forti, D. Monti, **S. RIVA** (2003)  
“Glutaryl-7-ACA-acylases: a new tool for the biocatalyzed kinetic resolution of racemic amines and alcohols”  
*Ibid*
- 30 **S. RIVA**, M. Casali (2002)  
“Chemo-enzymatic synthesis of glycosylated polymers”  
*VIII Convegno sulla Chimica dei Carboidrati*  
Milano, 13-15/6/2002
- 29 **S. RIVA**, B. Danieli, S. Gebahrtdt, M. Schubert-Zsilavec (2002)  
“ Enzymatic acylation of cardiac glycosides”  
*Ibid.*
- 28 **S. RIVA**, B. Danieli, S. Gebahrtdt, M. Schubert-Zsilavec (2001)  
“ Enzymatic acylation of cardiac glycosides”  
*37<sup>th</sup> National Organic Chemistry Symposium*  
Montana State University, Bozeman (Montana, USA), 10-14/6/2001
- 27 D. Monti, G. Carrea, E. Baldaro, G. Frare, **S. RIVA** (2000)  
“Industrial biocatalysts: characterization of an immobilized glutaryl-7-ACA”  
*Biocatalysis Gordon Conference*  
Meriden (New Hampshire, USA), 9-14/7/2000
- 26 P. Bianchi, G. Roda, B. Danieli, A. Mackova-Zabelinskaja, H. Griengl **S. RIVA** (2000)  
“A chemo-enzymatic approach to Killiani-Fischer synthesis”  
*Ibid*
- 25 G. Roda, B. Danieli, **S. RIVA** (1999)  
“Synthesis of cyanohydrins from substituted aldehydes by action of almond oxynitrilase”  
*Biotrans '99*, Giardini Naxos-Taormina, 26/9- 1/10/1999
- 24 **S. RIVA**, M. Casali, M. Nonini (1999)  
“Enzymatic regioselective acylation of lactose and of its derivatives in organic solvents”  
*European Lactose Symposium*, The Hague (Olanda), 25-26/3/1999
- 23 **S. RIVA**, M. Nonini, G. Ottolina, B. Danieli (1998)  
“Subtilisin-catalyzed esterification of di- and oligosaccharides containing a fructose moiety”  
*VI Convegno sulla Chimica dei Carboidrati*, Tirrenia (PI), 8-10/10/1998.
- 22 **S. RIVA**, D. Monti, L. Panza, G. Russo (1998)  
“Galactosylation of C-glycosides analogues *en route* to C-glycopeptides”  
*Ibid.*
- 21 **S. RIVA**, D. Monti, L. Panza, G. Russo (1998)

- “Galactosylation of C-glycosides analogues *en route* to C-glycopeptides”  
*1998 Lausanne Workshop on Glycomimetics*, Losanna (Svizzera), 10/7/1998
- 20 R. Bovara, G. Carrea, G. Ottolina, **S. RIVA**, F. Secundo (1997)  
“Activity, stability and conformation of methoxy(ethylene glycol)-subtilisin at different concentrations of water in dioxane”  
*New Trends in Biotechnology '97: Science and Education*, Capri (Na), 26-28/6/1997
- 19 B. Danieli, F. Peri, G. Carrea, G. Roda, **S. RIVA** (1996)  
“Enzyme-mediated acylation of benzyl  $\beta$ -D- and  $\beta$ -L-glucopyranoside: a remarkable example of enantiomeric recognition by regioselective transformation”  
*XVIII International Carbohydrate Symposium*  
Milano, 21-26/7/1996
- 18 B. Danieli, M. Luisetti, G. Sampognaro, **S. RIVA** (1996)  
“Regioselective acylation of polyhydroxylated natural compounds catalyzed by *Candida antarctica* lipase B (Novozym 435) in organic solvents”  
*Ibid*
- 17 G. Russo, L. Lay, L. Panza, M. Kithri, S. Tirendi, **S. RIVA** (1996)  
“Regioselective acylation of disaccharides by enzymatic transesterification in organic solvents”  
*Ibid*
- 16 B. Danieli, C. Barra, G. Carrea, **S. RIVA** (1996)  
“Almond oxynitrilase catalyzed transformation of substituted aldehydes”  
*Biocatalysis Gordon Conference*  
Meriden (New Hampshire, USA), 7-12/7/1996
- 15 E. Giosue', D. Monti, L. Panza, **S. RIVA** (1995)  
“Enzymatic synthesis of lactose derivatives”  
*Carbohydrate Engineering Meeting*  
Elsinore (Danimarca), 23-26/4/1995
- 14 **S. RIVA** (1994)  
“Antibody-catalyzed hydrolysis of unusually stable steroidal *p*-nitrophenylcarbonates”  
*Biocatalysis Gordon Conference*  
Meriden (New Hampshire, USA), 10-15/7/1994
- 13 L. Panza, G. Russo, S. Brasca, **S. RIVA** (1994)  
“Acilazione enzimatica selettiva di 4,6-*O*-benzilidene-D-glucopiranosidi con esteri sinteticamente utili”  
*V Convegno Nazionale di Chimica dei Carboidrati*  
Roma, 26-27/5/1994
- 12 L. Panza, V. Vergani, D. Monti, **S. RIVA** (1994)  
Studi sulla acilazione regioselettiva di disaccaridi ad opera di idrolasi in solventi organici  
*Ibid*
- 11 G. Carrea, **S. RIVA**, A. Pilotti, E. Canzi, A. Ferrari (1993)  
“Enzymatic synthesis of 12-ketoursodeoxycholic acid from dehydrocholic acid in a membrane reactor”  
*Sixth European Congress on Biotechnology*  
Firenze, 13-17/6/1993
- 10 **S. RIVA**, G. Carrea, T. Gianferrara, A. Tramontano (1992)  
“Catalytic antibodies with hydrolytic activity”  
*Januachem 92*  
Genova, 25-30/10/1992

- 9 **S. RIVA** (1992)  
“Effect of medium and of reaction conditions on the enantioselectivity of lipases in organic solvents”  
*Biocatalysis Gordon Conference*  
Meriden (New Hampshire, USA), 5-10/7/1992
- 8 **S. RIVA** (1992)  
“Selective acylation of 4,6-*O*-benzylidene-glycopyranosides by enzymatic catalysis”  
*Enzymatic synthesis and modification of carbohydrates*  
University of Warwick (UK), 1-3/7/1992
- 7 F. Secundo, G. Carrea, **S. RIVA** (1990)  
“Effect of reaction conditions on the enantioselectivity of lipases in organic solvents”  
*IASOC IV Session*  
Ischia Porto, 23-28/9/1990
- 6 **S. RIVA** (1989)  
“Enzymatic regioselective acylation of polyhydroxylated natural compounds in organic solvents”  
*X Enzyme Engineering Conference*  
Kashikojima (Japan), 24-29/9/1989
- 5 **S. RIVA**, R. Bovara, G. Ottolina, F. Secundo, G. Carrea (1989)  
“Regioselective acylation of bile acid derivatives with *Candida cylindracea* lipase in anhydrous benzene”  
*FEBS 89, XIX Meeting of the Federation of European Biochemical Societes*  
Roma, 2-7/7/1990
- 4 G. Ottolina, **S. RIVA**, G. Carrea, B. Danieli (1988)  
“Enzymatic synthesis of (4R-D)- and (4S-D)-NAD(P)H and determination of the stereospecificity of 7 $\alpha$ - and 12 $\alpha$ -hydroxysteroid dehydrogenases”  
*IUB 88, XIV International Congress of Biochemistry*  
Praga, 10-15/10/1988
- 3 **S. RIVA**, R. Bovara, P. Pasta, G. Carrea (1987)  
“Oxidoreduction of steroids with immobilized hydroxysteroid dehydrogenases and cofactor regeneration”  
*Enzyme Engineering IX*  
Santa Barbara, California (USA), 4-9/10/1987
- 2 G. Carrea, B. Danieli, G. Lesma, G. Ottolina, G. Palmisano, **S. RIVA** (1986)  
“Nuovi derivati funzionalizzati del NAD: studio FAB-MS di prodotti di alchilazione con 1,3-propansultone”  
*XVI Convegno nazionale della Divisione di Chimica Organica della S.C.I.*  
Urbino, 7-12/9/1986
- 1 R. Bovara, G. Carrea, **S. RIVA** (1985)  
“Potenzialita' degli enzimi ossidoriduttivi nella sintesi organica. Un modello significativo: gli acidi biliari”  
*XV Convegno nazionale della Divisione di Chimica Organica della S.C.I.*  
Sirmione, 22-27/9/1985

**ALTRE COMUNICAZIONI (ORALI O POSTER) IN CUI PRESENTE COME COAUTORE**

1. G. Carrea, R. Bovara, R. Longhi, **S. RIVA** (1984) (P)  
 “Enzymatic preparation of 12-ketochenodeoxycholic acid and 12-ketoursodeoxycholic acid with regeneration of nicotinamide cofactors”  
*B.E.P., Development of Second Generation Bioreactors for the Agro-Food Industries*  
 Braunschweig (Germania), 7-9/11/1994
2. G. Carrea, R. Bovara, **S. RIVA**, R. Lodi (1984) (P)  
 “Preparazione enzimatica dell’acido 12-chetochenodeossicolico con rigenerazione del NADP e del NADH”  
*XXX Congresso Nazionale della Societa’ Italiana di Biochimica*  
 Lacco Ameno d’Ischia, 7-10/10/1984
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*2<sup>nd</sup> National Meeting on Medicinal Chemistry*  
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“Carmagnola hemp biomass for preparation of valuable products. Chemical analysis”  
*3rd International Workshop of COST Action CM0903 (UBIOCHEM): “Sustainable production of fuels/energy, materials & chemicals from biomass”*  
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- 126 I. Patel, G. Ottolina, S. Gandolfi, R. Consonni, **S. RIVA (P)**  
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“Hemp hurds as sugar source for ABE fermentation with *in situ* n-butanol recovery”  
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- 128 V. Kren, E. Vavrihova, L. Kalachova, **S. RIVA (P)**  
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- 129 S. Gandolfi, I. Patel, G. Ottolina, **S. RIVA**, W. Van Hecke (**P**)  
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- 131 I. Bassanini, C. Bignami, P. Gavezzotti, **S. RIVA (P)**  
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“Resveratrol derivatives – possibilities of enzymatic modifications”  
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- 135 G. Ottolina, S. Gandolfi, L. Pistone, P. Xu, **S. RIVA (P)**  
“Hemp hurds biorefinery: Production of L-(+)-lactic acid”  
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*OxyZymes2016*  
Groningen (Holland), 3-6/7/2016
- 138 D. Monti, E. E. Ferrandi, C. Marchesi, C. Annovazzi, **S. RIVA**, R. Wohlgemuth (**P**)  
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Cracovia (Polonia), 3-6/7/2016
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Firenze, 10/6/2016
- 140 C. Palumbo, E. E. Ferrandi, C. Marchesi, D. Monti, **S. RIVA**, R. Psaro, M. Guidotti (P)  
“One-pot selective dihydroxylation of limonene combining metal and enzyme catalysis”  
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Bressanone (BZ), 11-14/9/2016
- 141 I. Bassanini, E.E. Ferrandi, X. Peng, D. Monti, **S. RIVA (P)**  
“Novel thermostable amine transferases from hot spring metagenomes”  
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- 142 D. Monti, D. Palumbo, E. E. Ferrandi, C. Marchesi, **S. RIVA**, R. Psaro, M. Guidotti (O)  
"Sequential metal and enzymatic catalysis: One-pot selective dihydroxylation of limonene"  
*EUROPACAT 2017*  
Firenze, 27-31/8/2017
- 143 E.E. Ferrandi, I. Bassanini, **S. RIVA**, X. Peng, D. Monti (O)  
"Novel thermostable amine transferases from hot spring metagenomes"  
*Amine Biocat 3.0*  
Manchester (UK), 11-13/12/2017
- 144 E. E. Ferrandi, D. Monti, M. Guidotti, **S. RIVA** (P)  
"Applicazioni di limonene epossido idrolasi in green chemistry"  
*6° Workshop Nazionale del Gruppo Interdivisionale di Green Chemistry – Chimica Sostenibile, SCI*  
Milano (MI) 15/6/2018
- 145 I. Bassanini, D. Monti, J. Krejzova, V. Kren, **S. RIVA** (P)  
"Enzymatic synthesis of valuable bioactive compounds"  
*2° Workshop "I Chimici per le Biotecnologie", Gruppo Interdivisionale delle Biotecnologie, SCI*  
Milano (MI) 22/2/2019
- 146 E.E. Ferrandi, B. Sechi, I. Bassanini, M. Vanoni, D. Tessaro, **S. RIVA**, X. Peng, D. Monti (P)  
"Discovery and characterization of a novel thermostable  $\beta$ 3-aminoacid transaminase from a *Meiothermus* strain isolated in an Icelandic hot spring"  
*BIOTRANS 2019, 14<sup>th</sup> International Symposium on Biocatalysis and Biotransformations*  
Groningen (Olanda), 7-11/7/2019
- 147 S. Bertuletti, S. Marzorati, E.E. Ferrandi, M. Vanoni, **S. RIVA**, D. Monti (P)  
"Insights into the substrate promiscuity of hydroxysteroid dehydrogenases"  
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- 148 V. Kren, I. Bassanini, L. Petraskova, J. Kapesova, **S. RIVA**, (P)  
"Glycosidase-catalyzed synthesis of glycosyl esters and phenolic glycosides"  
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- 149 M. Crotti, F. Parmeggiani, E.E. Ferrandi, F. Gatti, A. Sacchetti, **S. RIVA**, X. E. Brenna, D. Monti, (P)  
"Stereoselectivity switch in the reduction of  $\alpha$ -akyl- $\beta$ -arylenones by structure-guided designed variants of the ene reductase OYE1"  
*BIOTRANS 2019, 14<sup>th</sup> International Symposium on Biocatalysis and Biotransformations*  
Groningen (Olanda), 7-11/7/2019
- 150 S. Grosso, F. Radaelli, G. Fronza, D. Passarella, D. Monti, S. RIVA (P)  
"Studies on the laccase-catalyzed oxidation of 4-hydroxy-chalcones"  
*BIOTRANS 2019, 14<sup>th</sup> International Symposium on Biocatalysis and Biotransformations*  
Groningen (Olanda), 7-11/7/2019
- 151 I. Bassanini, E. E. Ferrandi, D. Monti, J. Kapesova, **S. RIVA**, V. Kren (P)  
"Glycosidase-catalyzed synthesis of glycosylated nutraceutical ingredients"  
*XXVI National Meeting in Medicinal Chemistry*  
Milano (MI) 16-19/7/2019

**d) DETTAGLIO ATTIVITA' DIDATTICA****CORRELATORE delle TESI di DOTTORATO di:**

1. Gabriella RODA  
**“Sintesi di legami carbonio-carbonio catalizzate da enzimi”**  
 Dottorato in Scienze Chimiche, curriculum Chimica Organica C05X  
 Università di Milano, Anni Accademici 1995-1999.
2. Mattia MARZORATI  
**“Applicazioni di sistemi enzimatici per la modifica e la sintesi di strutture polimeriche”**  
 Dottorato di Ricerca in Chimica Industriale – XX ciclo  
 Università degli Studi di Milano
3. Francesca SAGUI  
**“Chemo-enzymatic synthesis of non-natural amino acids with biological activity”**  
 Dottorato di Ricerca in Chimica del Farmaco – XX ciclo  
 Università degli Studi di Milano
4. Ivan BASSANINI  
**“Biocatalytic strategies for selective organic synthesis”**  
 Dottorato di Ricerca in Chimica – XXX Ciclo  
 Università degli Studi di Milano,

**RELATORE delle TESI di LAUREA in BIOTECNOLOGIE (vecchio ordinamento) di:**

1. Stefano RAIMONDI  
**“Caratterizzazione di un biocatalizzatore industriale: studio della specificità di substrato di una glutaryl-7-ACA-acilasi”**  
 Università di Modena e Reggio Emilia, Anno Accademico 2000-2001.
2. Sara ADANI  
**“Glutaryl-acilasi: studio di nuove applicazioni sintetiche di un biocatalizzatore industriale”**  
 Università di Modena e Reggio Emilia, Anno Accademico 2003-2004.
3. Giulia TREVISI  
**“Ossidazioni selettive di derivati idrossistilbenici catalizzate da laccasi”**  
 Università di Modena e Reggio Emilia, Anno Accademico 2003-2004.

**RELATORE delle TESI di LAUREA MAGISTRALE in BIOTECNOLOGIE INDUSTRIALI di:**

1. Niko VECCHI  
**“Studi sull’utilizzo di laccasi per la degradazione di lignina”**  
 Università di Modena e Reggio Emilia, Anno Accademico 2014-2015.
2. Gianluca PIREDDA )  
**“Studi sulle cinetiche di reticolazione di substrati proteici catalizzate da una transglutaminasi microbica”**  
 Università degli Studi di Modena e Reggio Emilia , Anno Accademico 2016-2017
3. Laura CUCINOTTA )  
**“Produzione, purificazione e caratterizzazione di nuove idrossiteroide deidrogenasi per la modifica selettiva di acidi biliari”**  
 Università degli Studi di Modena e Reggio Emilia , Anno Accademico 2017-2018

**CORRELATORE delle TESI di MASTER di SECONDO LIVELLO di:**

1. Paolo GAVEZZOTTI  
“**Approcci biocatalitici per la modifica selettiva di flavolignani estratti da *Sylibum marianum***”  
Mater di II Livello in Progettazione e Sviluppo di Farmaci  
Università di Pavia, Ann0 Accademico 2013-2014.

**CORRELATORE delle TESI di SPECIALITA' di:**

1. Daniela MONTI  
“**Purificazione della  $\beta$ -1,4-galattosiltrasferasi da colostro vaccino ed applicazioni in sintesi di lattosidi non naturali**”  
Scuola di Specializzazione in Applicazioni Biotecnologiche (SAB)  
Università di Milano, Anni Accademici 1992-1995.
2. Monica CASALI  
“**Sintesi, caratterizzazione ed applicazioni di nuovi polimeri contenenti carboidrati**”  
Scuola di Specializzazione in Scienze dei Polimeri  
Politecnico di Milano, Anni Accademici 1998-2000

**CORRELATORE delle TESI di LAUREA MAGISTRALE in CHIMICA INDUSTRIALE di:**

1. Francesco CAVALLO  
“**Approccio enzimatico alla sintesi di derivati piperidinici 2- e 2,6-sostituiti**”  
Università di Milano, Anno Accademico 2005-2006.

**CORRELATORE delle TESI di LAUREA MAGISTRALE in CHIMICA di:**

1. Stefania CAUFIN  
“**Ossidazione di vinil fenoli e acidi p-idrossi cinnamici catalizzata da laccasi**”  
Università di Milano, Anno Accademico 2008-2009.
2. Massimo COSTA  
“**Chemo-enzymatic synthesis of potential heat shock protein (Hsc-82) allosteric modulators**”  
Università di Milano, Anno Accademico 2016-2017.
3. Fabio RADAELLI  
“**Studies on the laccase-catalyzed oxidation of 4-hydroxy chalcones**”  
Università di Milano, Anno Accademico 2018-2019.

**CORRELATORE delle TESI di LAUREA MAGISTRALE in BIOTECNOLOGIE INDUSTRIALI di:**

1. Lucia RONCAGLIA  
“**Utilizzo di enzimi per la modificazione selettiva di sostanze naturali bioattive**”  
Università di Modena e Reggio Emilia, Anno Accademico 2005-2006.
2. Elisa BENEVENTI  
“**Accoppiamento ossidativo di 4-idrossistilbeni promosso da laccasi**”  
Università di Modena e Reggio Emilia, Anno Accademico 2005-2006.
3. Silvia CONTE

**“Utilizzo di laccasi per la sintesi chemo-enzimatica di derivati idrossistilbenici e valutazione della loro attività antiossidante”**

Università di Modena e Reggio Emilia, Anno Accademico 2008-2009.

4. Chiara DUGONI

**“Espressione, purificazione e caratterizzazione di una 7 $\alpha$ -idrossisteroide deidrogenasi da *Clostridium absonum* DSM 599 ricombinante in *E. coli*”**

Università di Modena e Reggio Emilia, Anno Accademico 2008-2009.

5. Riccardo AMBRA

**“Possibile utilizzo di Canapa come materia prima per una bioraffineria. Analisi e degradazione enzimatica del canapulo di *Cannabis sativa*, varietà Carmagnola”**

Università degli Studi di Modena e Reggio Emilia, Anno Accademico 2010-2011

6. Giulia RIGHETTI

**“Produzione, purificazione e caratterizzazione di 7 $\alpha$ - e 7 $\beta$ -idrossisteroide deidrogenasi da varie fonti microbiche”**

Università degli Studi di Parma, Anno Accademico 2011-2012

7. Federica BERTACCHI

**“Utilizzo di laccasi per la sintesi di prodotti dimerici di flavonolignani ed idrossistilbeni naturali”**

Università degli Studi di Modena e Reggio Emilia, Anno Accademico 2013-2014

#### **CORRELATORE delle TESI di LAUREA triennale in CHIMICA di:**

1. Fabrizio MINICONE

**“Sintesi biocatalizzata di aminoacidi non naturali”**

Università di Milano, Anno Accademico 2005-2006.

2. Stefania CAUFIN

**“Acilazione enzimatica regioselettiva di fenilpropanoidi glicosilati”**

Università di Milano, Anno Accademico 2006-2007.

#### **CORRELATORE delle TESI di LAUREA triennale in BIOTECNOLOGIE di:**

1. Matteo STRAVALACI

**“Ossidazione selettive di  $\alpha$ -,  $\beta$ -,  $\gamma$ -ciclodestrine mediate da laccasi”**

Università di Milano Bicocca, Anno Accademico 2005-2006.

#### **CORRELATORE delle TESI di LAUREA in CHIMICA (vecchio ordinamento) di:**

1. Gianluca OTTOLINA

**“Nuovi derivati di adenina, adenosina, NAD con 1,3-propansultone”**

Università di Milano, Anno Accademico 1985-6.

2. Paolo DE BELLIS

**“Acilazioni regioselettive di glicosidi naturali catalizzate da enzimi in solventi organici”**

Università di Milano, Anno Accademico 1988-9.

3. Andrea BERTARIO

**“Reazioni di transesterificazione catalizzate da enzimi in solventi organici”**

Università di Milano, Anno Accademico 1989-90.

4. Barbara REDIGOLO  
“**Studio delle proprieta' catalitiche di enzimi idrolitici per la trasformazione di substrati polifunzionali**”  
Università di Milano, Anno Accademico 1990-1.
5. Francesco PERI  
“**Ricognizione molecolare di zuccheri operata dall'enzima proteolitico subtilisina**”  
Università di Milano, Anno Accademico 1991-2.
6. Monica MENDOZZA  
“**Attivita' di un anticorpo catalitico verso l'idrolisi di esteri di acidi colanoici**”  
Università di Milano, Anno Accademico 1992-3.
7. Gabriella RODA  
“**Ricognizione molecolare di zuccheri operata dall'enzima proteolitico subtilisina**”  
Università di Milano, Anno Accademico 1994-5.
8. Carlo BARRA  
“**Studi sulla selettivita' della ossinitrilasi da mandorla nella sintesi stereoselettiva di cianidrine**”  
Università di Milano, Anno Accademico 1994-5.
9. Cinzia BRESSA  
“**Trasformazioni di aldeidi sostituite catalizzate da ossinitrilasi da mandorla**”  
Università di Milano, Anno Accademico 1995-6.
10. Giannantonio SAMPOGNARO  
“**Studi sulla regioselettivita' della lipasi da *Candida antarctica* in reazioni di acilazione**”  
Università di Milano, Anno Accademico 1995-6.
11. Sara FRATTINI  
“**Trasformazioni di aldeidi sostituite catalizzate da ossinitrilasi da mandorla e da *Hevea brasiliensis***”  
Università di Milano, Anno Accademico 1996-7.
12. Micol NONINI  
“**Studi sulle trasformazioni enzimatiche del lattosio e dei suoi derivati**”  
Università di Milano, Anno Accademico 1996-7.
13. Paola PIACENTI  
“**Addizione di acido cianidrico ad aldeidi  $\alpha$ - e/o  $\beta$ -eterosostituite catalizzata dall'enzima ossinitrilasi da mandorla**”  
Università di Milano, Anno Accademico 1996-7.
14. Laura FALCONE  
“**Glicosilazione di composti naturali ad opera della  $\beta$ -1,4-galattosiltrasferasi da latte bovino**”  
Università di Milano, Anno Accademico 1997-8.
15. Paola BIANCHI  
“**Utilizzo di ossinitrilasi per un approccio chemo-enzimatico alla sintesi di Kiliani-Fischer**”  
Università di Milano, Anno Accademico 1999-2000
16. Silvia NICOTRA  
“**Sintesi enzimatica di nuovi chitoligomeri modificati**”  
Università di Milano, Anno Accademico 1999-2000.
17. Anna SISTI  
“**Metodologie enzimatiche per la sintesi e la risoluzione di composti contenenti carboni quaternari funzionalizzati**”

Università di Milano, Anno Accademico 2000-1.

18. Davide TESSARO  
**“Cianurazioni di aldeidi policicliche e di dialdeidi catalizzate da ossinitrilasi”**  
Università di Milano, Anno Accademico 2000-1.
19. Annalisa INTRA  
**“Ossidazione di derivati fenolici ad opera di laccasi”**  
Università di Milano, Anno Accademico 2001-2.
20. Marco LAMA  
**“Acilazione regioselettiva di glicosidi naturali mediata da lipasi e proteasi”**  
Università di Milano, Anno Accademico 2001-2.
21. Marco ANGOLI  
**“Sintesi stereoselettiva dell’alcaloide aloperina”**  
Università di Milano, Anno Accademico 2001-2.
22. Francesca BELINGHIERI  
**“Risoluzione enzimatica della 2-(2-idrossietil)piperidina e sue applicazioni nella sintesi di prodotti naturali”**  
Università di Milano, Anno Accademico 2002-3.
23. Paola FASSI  
**“Sintesi enantioselettiva di derivati della 2-(2-idrossietil)piperidina e loro impiego per la sintesi di prodotti naturali”**  
Università di Milano, Anno Accademico 2003-4.
24. Andrea CANDIDO  
**“Ossidazione di glucosidi naturali mediata da laccasi”**  
Università di Milano, Anno Accademico 2003-4.
25. Cristina NAVARRA  
**“Sintesi chemo-enzimatica di poliesteri funzionalizzati”**  
Università di Milano, Anno Accademico 2006-7.

**CORRELATORE delle TESI di LAUREA in CHIMICA INDUSTRIALE (vecchio ordinamento) di:**

1. Federica CERRO  
**“Aspetti preparativi della sintesi enzimatica di cianidrine ad opera della ossinitrilasi da mandorla”**  
Università di Milano, Anno Accademico 1996-7.
2. Marco PAROLIN  
**“Studi sulla immobilizzazione di ossinitrilasi per la sintesi su scala preparativa di cianidrine chirali”**  
Università di Milano, Anno Accademico 1998-9.
3. Mattia MARZORATI  
**“Ossidazione di carboidrati mediata da laccasi”**  
Università di Milano, Anno Accademico 2003-4.

**CORRELATORE delle TESI di LAUREA in BIOLOGIA (vecchio ordinamento) di:**

1. Alessandra PILOTTI  
**“Studi enzimatici sulla derivatizzazione enantioselettiva del myo-inositolo”**



Università di Milano, Anno Accademico 1989-90.

2. Emanuela CROCIATI  
“**Catalisi enzimatica in solventi organici: utilizzo di lipasi per l’esterificazione selettiva di mono- e disaccaridi**”  
Università di Milano, Anno Accademico 1991-2.
3. Sara BRASCA  
“**Acilazione enzimatica selettiva di composti poliossidrilati con esteri sinteticamente utili**”  
Università di Milano, Anno Accademico 1993-4.
4. Alessandra CORCELLI  
“**Preparazione di 3-deacetilcefalosporine ad opera della lipasi da *Aspergillus niger***”  
Università di Milano, Anno Accademico 1993-4.
5. Elena GIOSUE’  
“**Isolamento dell’enzima  $\beta$ -1,4-galattosiltrasferasi da colostro bovino e suo utilizzo per la sintesi di lattosidi non naturali**”  
Università di Milano, Anno Accademico 1994-5.
6. Francesca ZAMBIANCHI  
“**Utilizzo dell’enzima  $\beta$ -1,4-galattosiltrasferasi da colostro bovino per la sintesi di lattosidi non naturali**”  
Università di Milano, Anno Accademico 1995-6.
7. Barbara SENNINO  
“**Utilizzo dell’enzima  $\beta$ -1,4-galattosiltrasferasi da colostro bovino per la sintesi di lattosidi non naturali in presenza di cosolventi organici.**”  
Università di Milano, Anno Accademico 1996-7.
8. Luca CAPIZZI  
“**Isolamento dell’enzima  $\beta$ -1,4-galattosiltrasferasi da latte bovino e suo utilizzo per la sintesi di derivati delle saponine estratte da radici di Ginseng**”  
Università di Milano, Anno Accademico 1997-8.
9. Letizia TARANTINI  
“**Utilizzo dell’enzima  $\beta$ -1,4-galattosiltrasferasi da colostro bovino per la sintesi di C-lattosidi**”  
Università di Milano, Anno Accademico 1998-9.

**CORRELATORE Tesi Laurea SCIENZE PREPARAZIONI ALIMENTARI (vecchio ordinamento):**

1. Debora TURA  
“**Isolamento di mandelonitrile liasi e  $\beta$ -glucosidasi da mandorla**”  
Università di Milano, Anno Accademico 1995-6.

**CORRELATORE delle TESI di LAUREA in CHIMICA e TECNOLOGIE FARMACEUTICHE di:**

1. Lara BARATTO  
“**Utilizzo dell’enzima *L*-treonina aldolasi per la sintesi di  $\beta$ -idrossi-aminoacidi dotati di attività biologica**”  
Università di Milano, Anno Accademico 2003-4.
2. Rachele PIAZZOLI  
“**Approcci chemo-enzimatici per la sintesi diastereoselettiva di precursori dell’acido  $\beta$ -idrossiglutammico**”

Università di Milano, Anno Accademico 2008-9.

3. Federica LOIACONO  
**“Approcci chemo-enzimatici per la sintesi diastereoselettiva di  $\beta$ -idrossiaminoacidi”**  
 Università di Milano, Anno Accademico 2008-9.
4. Paolo GAVEZZOTTI  
**“Sintesi di dimeri enantiomericamente arricchiti di vinilfenoli attraverso l’uso combinato di laccasi e lipasi”**  
 Università di Milano, Anno Accademico 2011-2.
5. Chiara BIGNAMI  
**“Utilizzo di laccasi e glicosidasi per la preparazione di derivati dimerici di glicosidi fenolici”**  
 Università di Milano, Anno Accademico 2014-5.

#### **CORRELATORE delle TESI di LAUREA in BIOTECNOLOGIE (vecchio ordinamento) di:**

1. Cristina ROSSI  
**“Utilizzo sintetico di glicosiltrasferasi: ottimizzazione delle condizioni di reazione ed esempi di bioconversioni”**  
 Università di Milano Bicocca, Anno Accademico 2002-2003.

#### **\* *Lezioni alla Scuola di Specialità in Sintesi Chimica***

Università di Milano: Corso di *“Applicazioni di Sistemi Biologici alla Sintesi Organica”*

Lezioni su: **Catalisi enzimatica in solventi organici**

**Anticorpi catalitici**

**Gli enzimi nella chimica dei carboidrati**

**Enzimi che catalizzano la formazione di legami carbonio-carbonio**

(Dall’Anno Accademico 1989-1990 al 2001-2002)

#### **\* *Lezioni alla Scuola di Specialità in Applicazioni Biotecnologiche***

Università di Milano: Corso di *“Sostanze Naturali Biologicamente Attive”*

Lezioni su: **Gli enzimi nella chimica dei carboidrati (1991)**

**Glicosiltrasferasi (1992)**

#### **\* *Lezioni ed Esercitazioni al Corso di “Biocatalisi in Sintesi Organica”***

Politecnico di Milano: 1993; 1995

#### **\* *Lezioni al “4<sup>th</sup> advanced Course on Applied Biocatalysis”***

Lezioni su: **When and why should non-conventional media be used ?**

**Scope of biocatalysis in non-conventional media**

European Federation of Biotechnology; Working Party on Applied Biocatalysis

Portoroz (Slovenia), Settembre 1998.

#### **\* *Lezione al Corso per “Esperto di Gestione e Promozione del Trasferimento Tecnologico nel Settore Agro-Alimentare (cod MURST 2393)”***

Lezione su: **Biotecnologie alimentari: processi catalitici in sistemi non-acquosi**

Consorzio TechNapoli, Provincia di Napoli, Ottobre 2000.

#### **\* *Lezioni al Corso del Dottorato di Ricerca in “Chimica del Farmaco”***

Lezione su: **Formazione del legame carbonio-carbonio con sistemi enzimatici**

Istituto di Chimica Farmaceutica e Tossicologica, Università di Milano, aprile 2001

\* ***Lezioni al Corso del Dottorato di Ricerca in “Scienze Chimiche”***

Lezione su: **Sintesi e modifica enzimatica di carboidrati: liasi e idrolasi**  
Università di Milano, marzo 2003

\* ***Lezioni al Corsi di Dottorato di Ricerca, area “Chimica Organica”***

Lezioni su: **Synthetic exploitation of enzymes**  
Università di Milano, giugno 2013

\* ***Lezioni al Corso di “Biocatalisi e sviluppo di farmaci”, Master in “Progettazione e sviluppo di Farmaci”***,

Lezioni su: **Utilizzo di enzimi in sintesi: deidrogenasi, fosfolipasi, ossinitrilasi, glicosiltrasferasi**  
**Utilizzo di enzimi in sintesi: idrolasi**

Università di Pavia

ottobre 2003; settembre 2004; settembre 2005; settembre 2006; giugno 2007; giugno 2008; maggio 2009, maggio 2010, settembre 2011, settembre 2012; maggio 2013; maggio 2014; maggio 2015; maggio 2016; maggio 2017; maggio 2018; maggio 2019, aprile 2020

\* ***Lezioni al Master Degree Course of Industrial Pharmaceutical Chemistry***

Lezioni su: **Synthetic exploitation of enzymes**

Facultade de Farmacia , Universidade de Coimbra, Coimbra, Portogallo,  
aprile 2011; aprile 2012; aprile 2013; maggio 2014; giugno 2015, maggio 2017