

PROF. VALERIA AMBROGI



She had got degrees in Pharmacy (University of Perugia) in 1983, *summa cum laude* and in Biological Science in 1987.

She obtained her Ph.D. graduation in Drug Chemistry in 1991. From 2005 she is Associate Professor at the Department of Chemistry and Technology of Drugs, Faculty of Pharmacy (now Department of Pharmaceutical Science) of the University of Perugia, Italy.

She got habilitation as Full Professor in 2012 in 03/D2 Drug technology, socioeconomics and regulations and successively in 2023.

She has been member of the Evaluation Unit of Perugia University for 2017-2021 and she was Department Delegate for the Job Placement (2017-2020). She is Member of the Brain Storming Group of University of Perugia from 2020.

She is member of the Scientific Council of European Materials Research Society and member of the editorial board of the Journal of Functional Biomaterials from 01-11-2022.

She is the Coordinator of the Pharmacy Degree (2023).

RESEARCH FIELDS

- A. Use of inorganic matrices (ordered mesoporous silicates such as MCM-41 and SBA-15, hydrotalcites, montmorillonite, calcium carbonate) for modified drug release and for oral administration of water poorly soluble drugs owing to II and IV classes of the Biopharmaceutical Classification System
- B. Inorganic matrices for improving effectiveness and safety of unstable drugs and cosmetic ingredients
- C. Dental composites for release of biologically active agents (fluoride, chlorhexidine)
- D. Preparation of inorgano-organic composite materials for advanced wound dressings with antimicrobial and antibiofilm activities
- E. Preparation of films as materials for advanced wound dressings with antimicrobial activity
- F. Materials for bone regeneration (scaffolds, microparticles functionalized with metal nanoparticles) with antimicrobial activity.

She is co-author of more than one hundred and forty papers published in national and international journals and 1 book chapter.

SCIENTIFIC COLLABORATIONS

- CNR, Institute of Nanostructured Materials, Rome (Italy)
- Dipartimento di Chimica, Biologia e Biotecnologie, Università di Perugia
- Dipartimento di Scienze agrarie, alimentari ed ambientali, Università di Perugia
- UOC Chirurgia Odontostomatologica, George Eastman, Roma, Italy
- Dipartimento di Medicina e Chirurgia, Università di Perugia
- Dipartimento di Medicina Veterinaria, Università di Perugia

Publications (from 2009)

- 1) Effect of gliclazide immobilization into layered double hydroxide on drug release**
Valeria Ambrogi, Luana Perioli, Valeria Ciarnelli, Morena Nocchetti, Carlo Rossi, *Eur. J. Pharm. Biopharm.*, 73, 285-291, 2009.
- 2) Formulation studies of benzydamine mucoadhesive formulations for vaginal administration**, Luana Perioli, Valeria Ambrogi, Lorena Venezia, Stefano Giovagnoli, Cinzia Pagano, Carlo Rossi, *Drug Dev. Ind. Pharm.* 35, 369-379, 2009.
- 3) Utilizzi farmaceutici di MCM-41**, Valeria Ambrogi e Luana Perioli, *Notiziario chimico farmaceutico*, 2, 98-103, 2009.
- 4) Cosmetici ad azione schiarente cutanea: ingredienti funzionali e loro meccanismo d'azione**, Valeria Ambrogi e M. Cristina Tiralti, *Kosmetica*, 3, 50-54, 2009.
- 5) FG90 chitosan as a new polymer for metronidazole mucoadhesive tablets for vaginal administration**, Luana Perioli, Valeria Ambrogi, Cinzia Pagano, Stefania Scuota, Carlo Rossi, *Int. J. Pharm.*, 377, 120-127, 2009.
- 6) Zinco: oligoelementi per la salute della pelle**, Valeria Ambrogi, *Kosmetica*, 6, 48-53, 2009.
- 7) Vitamina B3: importante ingrediente funzionale cosmetico**, Valeria Ambrogi *Kosmetica*, 8, 40-43, 2009.
- 8) Germoglio di grano: proprietà anti-aging in un prodotto fitocosmtico ad elevate attività antiossidante**, Valeria Ambrogi, Isabella Calzuola, Anna C. Paolillo, Valeria Marsili, *Natural1*, edizioni GV®, 85, 40-45, 2009.
- 9) Chlorhexidine MCM-41 mucoadhesive tablets for topical use**
Valeria Ambrogi, Luana Perioli, Fabio Marmottini, Massimo Moretti, Elisa Lollini, Carlo Rossi, *J. Pharm. Innovation*, 4, 156-164, 2009.
- 10) Econazole Nitrate-Loaded MCM-41 for an Antifungal Topical Powder Formulation**, Valeria Ambrogi, Luana Perioli, Cinzia Pagano, Fabio Marmottini, Massimo Moretti, Fabiola Mizzi, Carlo Rossi, *J. Pharm. Sci.* 99, 4738-4745, 2010.

- 11) **Zinco e prodotti cosmetici**, Valeria Ambrogi, *Kosmetica*, 4, 36-39, 2010.
- 12) **Halloysite: un nuovo carrier per la veicolazione di molecole biologicamente attive**
Valeria Ambrogi, *Notiziario Chimico Farmaceutico*, 86-89, ottobre 2010.
- 13) **New solid mucoadhesive systems for benzydamine vaginal administration**, Luana Perioli, Valeria Ambrogi, Cinzia Pagano, Elena Massetti, Carlo Rossi, *Colloids and Surfaces B: Biointerfaces*, 84, 413-420, 2011.
- 14) **Effects of hydrotalcite-like nanostructured compounds on biopharmaceutical properties and release of BCS class II drugs: The case of flurbiprofen**, Luana Perioli, Valeria Ambrogi, Laura Di Nauta, Morena Nocchetti, Carlo Rossi, *Appl. Clay Sci.*, 51, 407-413, 2011.
- 15) **Impieghi cosmetici degli idrossiacidi**, Valeria Ambrogi, *Kosmetica*, 2, 68-72, 2011
- 16) **Preformulation studies on host-guest composites for oral administration of BCS class IV drugs: HTlc and furosemide**, Luana Perioli, Valeria Ambrogi, Morena Nocchetti, Michele Sisani, Cinzia Pagano, *Appl. Clay Sci.* 53, 696-703, 2011.
- 17) **L'acido urocanico: un cromoforo cutaneo naturale da cui dobbiamo proteggerci**
Valeria Ambrogi, *Kosmetica*, 6, 50-52, 2011.
- 18) **Prodotti cosmetici autoconservanti**, Valeria Ambrogi, *Kosmetica*, 7, 32-36, 2011
- 19) **Il trattamento cosmetico dell'alitosi**, Valeria Ambrogi, *Kosmetica*, 8, 46-48, 2011.
- 20) **MCM-41 for furosemide dissolution improvement**, Valeria Ambrogi, Luana Perioli, Cinzia Pagano, Loredana Latterini, Fabio Marmottini, Maurizio Ricci, Carlo Rossi, *Micropor. Mesopor. Mater.*, 147, 343-349, 2012.
- 21) **Immobilization of kojic acid in ZnAl-hydrotalcite like compounds**, Valeria Ambrogi, Luana Perioli, Morena Nocchetti, Loredana Latterini, Cinzia Pagano, Elena Massetti, Carlo Rossi, *J. Phys. Chem. Solids* 73, 94-98, 2012.
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- 23) **Effetti delle radiazioni infrarosse sulla pelle**, Valeria Ambrogi, *Kosmetica*, 4, 42-45, 2012.
- 24) **Coloranti: meccanismo, sicurezza e nuove proposte**, Valeria Ambrogi, *Kosmetica*, 5, 34-38, 2012.
- 25) **Trattamento: prodotti di origine vegetale**, Valeria Ambrogi, *Kosmetica*, 5, 38-41, 2012.
- 26) **Impiego cosmetico dell'olio di argan ed altri prodotti dell'Argania spinosa**, Valeria Ambrogi, *Kosmetica*, 32-35, settembre 2012.
- 27) **Fisiologia della pelle del neonato e suo sviluppo durante i primi anni**, Valeria Ambrogi, *Kosmetica*, 42-45, dicembre 2012.
- 28) **Prodotti di origine vegetale nella prevenzione e nel trattamento dell'invecchiamento**, Valeria Ambrogi, *Kosmetica*, 40-42, ottobre 2012.
- 29) **Il cosmetico maschile come risposta alle caratteristiche della pelle dell'uomo**
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- 30) **Montmorillonite as an agent for drug photostability**, Valeria Ambrogi, Loredana Latterini, Morena Nocchetti, Cinzia Pagano, Maurizio Ricci, *J. Mater. Chem.*, 22, 22743-22749, 2012.

- 31) Mesoporous Silicate MCM-41 as a Particulate Carrier for Octyl Methoxycinnamate: Sunscreen Release and Photostability**, Valeria Ambrogi, Loredana Latterini, Fabio Marmottini, Cinzia Pagano, Maurizio Ricci, *J. Pharm. Sci.*, 102, 1468-1475, 2013.
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- 33) Amorphous carbamazepine stabilization by the mesoporous silicate SBA-15** Valeria Ambrogi, Fabio Marmottini, Cinzia Pagano, *Micropr. Mesopor. Mat.*, 177, 1-7, 2013.
- 34) Oxybenzone Entrapped in Mesoporous Silicate MCM-41**, Valeria Ambrogi, Loredana Latterini, Fabio Marmottini, Maria Cristina Tiralti, Maurizio Ricci, *J. Pharm. Innov.*, 8, 212–217, 2013.
- 35) Materiali inorganici mesoporosi. Agenti bioattivi**, Valeria Ambrogi, *Notiziario Chimico Farmaceutico*, 2013.
- 36) Efficacia e sicurezza del filtro UV-A Butylmethoxydibenzoylmethane**, Valeria Ambrogi, *Kosmetica*, maggio, 36-39, 2013.
- 37) Sostanze odorose di sintesi**, Valeria Ambrogi, *Laboratorio 2000*, marzo, 40-43, 2014.
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