

Bio-sketch

STEFANO GIOVAGNOLI PH.D.

CV Accademico

Dati personali	
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Data di nascita	28-06-1972
Interessi di ricerca e profilo	La ricerca del Prof. Giovagnoli comprende polveri respirabili per il trattamento delle malattie polmonari, nanoparticelle organiche e inorganiche per il rilascio mirato e locale e l'ingegneria delle cellule come sistemi di somministrazione di farmaci e strumenti terapeutici. Particolare attenzione è rivolta allo sviluppo di nuove strategie per il trattamento delle malattie infettive. Ha più di 100 pubblicazioni su riviste internazionali peer-reviewed e più di 120 presentazioni a congressi internazionali, H index scopus = 30, google scholar = 34.
Formazione	
2007 – 2008	Studi post-dottorato con il Prof. Patrick P. DeLuca presso l'Università del Kentucky, KY, USA. Temi di ricerca: microincapsulazione di farmaci antisclerotici e antipsicotici farmaci, film a rapida dissoluzione per il parto buccale.
2002-2003	Visiting PhD Student in Tecnologia Farmaceutica. School of Pharmacy, University of Kentucky, KY, USA, con il Professor Patrick P. DeLuca. Microincapsulazione di proteine e peptidi
2000-2003	PhD - Dottorato in Tecnologie Farmaceutiche: Consigliere Prof. Carlo Rossi, Università degli Studi di Perugia. Lavoro su "Nuove strategie di microincapsulazione"
1999-/2000	Ricercatore R&S, Glaxo Welcome, Ware, Regno Unito. Temi di ricerca: forme farmaceutiche iniettabili

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1992-1997

Laurea in Chimica presso l'Università degli Studi di Perugia - lavoro di tesi su: "Modi idrodinamici in acetonitrile mediante spettroscopia Brillouin"

Posizioni accademiche

2019-presente

Sottodelega per la Ricerca e Fund Raising
Università di Perugia

2017 - presente

Professore Associato di Tecnologie Farmaceutiche e Biotecnologie, Dipartimento di Scienze Farmaceutiche, Università di Perugia, Italia

2014- presente

Membro del Collegio dei Docenti di Dottorato,
Dipartimento di Scienze Farmaceutiche, Università di Perugia

2014-2017

Professore a contratto di Tecnologie farmaceutiche e biotecnologie, Dipartimento di Scienze Farmaceutiche, Università di Perugia.

2014

Visiting Professor di Tecnologia Farmaceutica,
Università Nazionale e Capodistriana di Atene, Atene,
Grecia

2014

in visita professoressa di farmaceutico Tecnologia, Università Jagellonica, Cracovia, Polonia

2009 – 2013

Professore a contratto di Tecnologie farmaceutiche e biotecnologie, Dipartimento di Chimica e Tecnologia del Farmaco, Università degli Studi di Perugia.

2004 – 2007

Ricercatore in Tecnologia Farmaceutica
Dipartimento di Chimica e Tecnologia del Farmaco,
Università degli Studi di Perugia

Premi

2004

AAPS Outstanding Graduate Student Award in Pharmaceutical Technology sponsorizzato da Solvay Pharmaceuticals e dall'American Association of Pharmaceutical Scientists (AAPS).

Attività editoriale

Editor in Chief di Recent Advances in Drug Delivery & Formulation
Associate Editor di Frontiers in Pharmacology
Guest Editor di Pharmaceutics
Guest Editor dell'International Journal of Molecular Sciences
Board member del Journal of Pharmaceutical Innovation, Pharmaceutics, Current Drug Discovery Technologies, Journal of Medicinal Chemistry and Research

Pubblicazioni, libri e brevetti

- 1 Puccetti M, Gomes dos Reis L, Pariano M, Costantini C, Renga G, Ricci M, Traini D, Giovagnoli S. Development and in vitro-in vivo performances of an inhalable indole-3-carboxaldehyde dry powder to target pulmonary inflammation and infection. *Int. J. Pharm.* 607 (2021) 121004.
- 2 Schiavi, D.; Balbi, R.; Giovagnoli, S.; Camaioni, E.; Botticella, E.; Sestili, F.; Balestra, G.M. A Green Nanostructured Pesticide to Control Tomato Bacterial Speck Disease. *Nanomaterials* 2021, 11, 1852.
- 3 Costantini C, Nunzi E, Spolzino A, Palmieri M, Renga G, Zelante T, Englmaier L, Coufalikova K, Spáčil Z, Borghi M, Bellet MM, Acerbi E, Puccetti M, Giovagnoli S, Spaccapelo R, Talesa VN, Lomurno G, Merli F, Facchini L, Spadea A, Melillo L, Codeluppi K, Marchesi F, Marchesini G, Valente D, Dragonetti G, Nadali G, Pagano L, Aversa F, Romani L. Pharyngeal Microbial Signatures Are Predictive of the Risk of Fungal Pneumonia in Hematologic Patients. *Infect Immun.* 2021 Jul 15;89(8):e0010521.
- 4 Caricato D, Primavilla S, Scuota S, Ricci M, Perioli L, Marrazzo M, Giovagnoli S. Rojo Duro Red Onion Extract Loaded Spray Thermogel as a Sustainable Platform for the Treatment of Oral Mucosa Lesions. *J Pharm Sci.* 2021 Aug;110(8):2974-2985.
- 5 Puccetti, M.; Pariano, M.; Renga, G.; Santarelli, I.; D’Onofrio, F.; Bellet, M.M.; Stincardini, C.; Bartoli, A.; Costantini, C.; Romani, L.; Ricci, M.; Giovagnoli, S. Targeted Drug Delivery Technologies Potentiate the Overall Therapeutic Efficacy of an Indole Derivative in a Mouse Cystic Fibrosis Setting. *Cells* 2021, 10, 1601.
- 6 Pariano, M.; Pieroni, S.; De Luca, A.; Iannitti, R.G.; Borghi, M.; Puccetti, M.; Giovagnoli, S.; Renga, G.; D’Onofrio, F.; Bellet, M.M.; Stincardini, C.; Della-Fazia, M.A.; Servillo, G.; van de Veerdonk, F.L.; Costantini, C.; Romani, L. Anakinra Activates Superoxide Dismutase 2 to Mitigate Inflammasome Activity. *Int. J. Mol. Sci.* 2021, 22, 6531.
- 7 D’Onofrio, F.; Renga, G.; Puccetti, M.; Pariano, M.; Bellet, M.M.; Santarelli, I.; Stincardini, C.; Mosci, P.; Ricci, M.; Giovagnoli, S.; Costantini, C.; Romani, L. Indole-3-Carboxaldehyde Restores Gut Mucosal Integrity and Protects from Liver Fibrosis in Murine Sclerosing Cholangitis. *Cells* 2021, 10, 1622.
- 8 Elisa Rampacci, Maria Luisa Marenzoni, Rolando Cannalire, Donatella Pietrella, Stefano Sabatini, Stefano Giovagnoli, Tommaso Felicetti, Marco Pepe, Fabrizio Passamonti, Ethidium bromide exposure unmasks an antibiotic efflux system in *Rhodococcus equi*, *Journal of Antimicrobial Chemotherapy*, Volume 76, Issue 8, August 2021, Pages 2040–2048
- 9 Matteo Puccetti, Marilena Pariano, Monica Borghi, Carolina Barola, Simone Moretti,

- Roberta Galarini, Paolo Mosci, Maurizio Ricci, Claudio Costantini, Stefano Giovagnoli (2021). Enteric formulated indole-3-carboxaldehyde targets the aryl hydrocarbon receptor for protection in a murine model of metabolic syndrome. *INTERNATIONAL JOURNAL OF PHARMACEUTICS*, vol. 602, ISSN: 0378-5173.
10. Zelante, Teresa, Puccetti, Matteo, Giovagnoli, Stefano, Romani, Luigina (2021). Regulation of host physiology and immunity by microbial indole-3-aldehyde. *CURRENT OPINION IN IMMUNOLOGY*, vol. 70, p. 27-32, ISSN: 0952-7915.
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12. Buratta, Sandra, Shimanaka, Y, Costanzi, E, Ni, S, Urbanelli, L, Kono, N, Morena, F, Sagini, K, Giovagnoli, S, Romani, R, Gargaro, M, Arai, H, Emiliani, C (2021). Lipotoxic stress alters the membrane lipid profile of extracellular vesicles released by Huh-7 hepatocarcinoma cells. *SCIENTIFIC REPORTS*, vol. 11, ISSN: 2045-2322.
13. Xiroudaki Stylianis, Ianni Federica, Sabbatini Samuele, Roselletti Elena, Monari Claudia, Sardella Roccaldo, Vecchiarelli Anna, Giovagnoli Stefano (2021). Initial In Vivo Evaluation of a Novel Amikacin-Deoxycholate Hydrophobic Salt Delivers New Insights on Amikacin Partition in Blood and Tissues. *PHARMACEUTICS*, vol. 13, ISSN: 1999-4923, doi: 10.3390/pharmaceutics13010085
14. Puccetti Matteo, Costantini Claudio, Ricci Maurizio, Giovagnoli Stefano (2021). Tackling Immune Pathogenesis of COVID-19 through Molecular Pharmaceutics. *PHARMACEUTICS*, vol. 13, ISSN: 1999-4923.
15. Arato Iva, Milardi Domenico, Giovagnoli Stefano, Grande Giuseppe, Bellucci Catia, Lilli Cinzia, Bartoli Sara, Corneli Sara, Mazzone Piera, Calvitti Mario, Baroni Tiziano, Calafiore Riccardo, Mancuso Francesca, Luca Giovanni (2021). In “Vitro” Lps-Stimulated Sertoli Cells Pre-Loaded With Microparticles: Intracellular Activation Pathways. *FRONTIERS IN ENDOCRINOLOGY*, vol. 11, ISSN: 1664-2392.
16. Pacławski, A.; Szlek, J.; Jachowicz, R.; Giovagnoli, S.; Wiśniowska, B.; Polak, S.; Czub, N.; Mendyk, A. Evolutionary Algorithms in Modeling Aerodynamic Properties of Spray-Dried Microparticulate Systems. *Appl. Sci.* 2020, 10, 7109.
17. Gambelunghe, A.; Giovagnoli, S.; Di Michele, A.; Boncompagni, S.; Dell’Omo, M.; Leopold, K.; Iavicoli, I.; Talesa, V.N.; Antognelli, C. Redox-Sensitive Glyoxalase 1 Up-Regulation Is Crucial for Protecting Human Lung Cells from Gold Nanoparticles Toxicity. *Antioxidants* 2020, 9, 697.
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19. Puccetti, M.; Xiroudaki, S.; Ricci, M.; Giovagnoli, S. Postbiotic-Enabled Targeting of the Host-Microbiota-Pathogen Interface: Hints of Antibiotic Decline? *Pharmaceutics* 2020, 12, 624.
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- mucosa diseases. European Journal of Pharmaceutical Sciences, 2020;142:105-125.
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- 23 Rampacci, E.; Marenzoni, M.L.; Giovagnoli, S.; Passamonti, F.; Coletti, M.; Pietrella, D. Phenotypic Characterization of Rhodococcus equi Biofilm Grown In Vitro and Inhibiting and Dissolving Activity of Azithromycin/Rifampicin Treatment. *Pathogens* 2019, 8, 284.
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- 25 Glaubitt, Krystyna, Ricci, Maurizio, Giovagnoli, Stefano (2019). Exploring the Nano Spray-Drying Technology as an Innovative Manufacturing Method for Solid Lipid Nanoparticle Dry Powders. *AAPSPharmSciTech*, vol. 20, 1.
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- 27 Puccetti, Matteo, Giovagnoli, Stefano, Zelante, Teresa, Romani, Luigina, Ricci, Maurizio (2018). Development of novel indole-3-aldehyde loaded gastro-resistant spray-dried microparticles for post-biotic small intestine local delivery. *Journal of Pharmaceutical Sciences*, vol. 107, p. 2341-2353, ISSN: 0022-3549, doi: 10.1016/j.xphs.2018.04.023
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- 29 Rampacci E, Marenzoni ML, Chiaradia E, Passamonti F, Ricci M, Pepe M, Coletti M, Giovagnoli S. In vitro performances of novel co-spray-dried azithromycin/rifampicin microparticles for Rhodococcus equi disease treatment. *Sci Rep.* 2018 Aug 14;8(1):12149.
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- 31 Matteo Puccetti, Giuseppe Paolicelli, Vasileios Oikonomou, Antonella De Luca, Giorgia Renga, Monica Borghi, Marilena Pariano, Claudia Stincardini, Lucia Scaringi, Stefano Giovagnoli, Maurizio Ricci, Luigina Romani, Teresa Zelante. Towards Targeting the Aryl Hydrocarbon Receptor in Cystic Fibrosis. *Mediators of Inflammation* 2018, 1601486.
- 32 Romani Luigina, Stincardini Claudia, Giovagnoli Stefano, Paci Maurizio, Villella Valeria R., Sforza Luigi, Renga Giorgia, Bellet Marina M., Costantini Claudio, Puccetti Paolo, Kroemer Guido, Maiuri Luigi, Pessia Mauro, Goldstein Allan, Garaci Enrico. Reply to

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40. Giovagnoli S, Cassano T, Pace L, Magini A, Polchi A, Tancini B, Perluigi M, De Marco F, Emiliani C, Dolcetta D. Evaluation of a LC-MS method for everolimus preclinical determination in brain by using [(13)C₂D₄]RAD001 internal standard. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2015; 985:155-163.
41. D Bartolini, M Piroddi, C Tidei, S Giovagnoli, D Pietrella, Y Manevich, KD Tew, D Giustarini, R Rossi, DM Townsend, C Santi, F Galli (2015). Reaction kinetics and targeting to cellular GST of the glutathione peroxidase mimetic PhSeZnCl and its D, L-polylactide microparticle formulation. *Free Radical Biology and Medicine* (ISSN:0891-5849) p. 56 - 65 Vol. 78.
42. Chiappalupi, S., Luca, G., Mancuso, F., Madaro, L., Fallarino, F., Nicoletti, C., Calvitti, M., Arato, I., Falabella, G., Salvadori, L., Di Meo, A., Bufalari, A., Giovagnoli, S., Calafiore, R., Donato, R., Sorci, G. Effects of intraperitoneal injection of microencapsulated Sertoli cells on chronic and presymptomatic dystrophic mice. (2015) *Data in Brief*, 5, pp. 1015-1021.
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- 54 Susan D'Souza, Jabar Faraj, Stefano Giovagnoli, Patrick P DeLuca (2014). IN VITRO IN VIVO CORRELATION FROM LACTIDE-CO-GLYCOLIDE POLYMERIC DOSAGE FORMS. PROGRESS IN BIOMATERIALS (ISSN:2194-0517) Vol. 2 December,

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