

**PERSONAL  
INFORMATION**

Giorgia Renga

**WORK EXPERIENCE**

- 01.03.2019 – 28.02.2022 **Postdoc Research fellow**  
Fondazione Celiachia, Genova and University of Perugia, Perugia, Italy  
Title project: "Exploiting the mast cells plasticity for predictive signatures of *Candida albicans* commensalism vs pathogenicity in celiac disease"
- 01.09.2018 – 28.02.2019 **Research fellow**  
Fondazione Fibrosi Cistica, Verona, Italy  
Title project: "Pharmacology and therapeutics of inhaled indoles, as aryl hydrocarbon receptor ligands, in cystic fibrosis"
- 01.11.2017 – 31.08.2018 **Research fellow**  
Fondazione Fibrosi Cistica, Verona, Italy  
Title project: "Anakinra in cystic fibrosis: from targeting pathogenic inflammation to correcting CFTR defect"
- 01.11.2014 – 30.10.2017 **PhD Student in Systems Biology in Immune and Infectious Diseases**  
University of Perugia, Perugia, Italy
- 01.05.2014 – 30.10.2014 **Research fellow**  
University of Perugia, Perugia, Italy  
Title project: "Genetic polymorphism in patients with invasive aspergillosis: a new frontier for diagnosis and therapy"

**EDUCATION AND  
TRAINING**

- 19.03.2021 – 24.09.2021 **Training course in Patologia molecolare diagnostica**  
University of Milano Statale, Milano, Italy
- 15.09.2021 **Training GCP (Good Clinical Practice) e GCLP (Good Clinical Laboratory Practice)**  
Sintesi Research, Milano, Italy
- 16.04.2018 **PhD in Systems Biology in Immune and Infectious Diseases**  
University of Perugia, Perugia, Italy  
Title of thesis: "IL-9 and mast cells as key players in fungal infections"
- 12.12.2016 – 14.12.2016 **2<sup>nd</sup> Course on Ethical and Legal Issues of Research and Innovation**  
University of Perugia, Perugia, Italy  
Lesson "Processing of Health Data"
- 06.06.2016 – 08.06.2016 **Training course in Corretto approccio alla sperimentazione animale**  
University of Perugia, Perugia, Italy
- 24.02.2014 **Master's Degree in Applied Biomolecular Sciences**  
University of Perugia, Perugia, Italy  
Title of the thesis: "Role of AIRE in murine models of candidiasis"
- 14.06.2012 **Training course in Informazione-Formazione sui rischi connessi all'attività svolta**  
University of Perugia, Perugia, Italy
- 14.10.2010 **Degree in Biological Sciences**  
University of Perugia, Perugia, Italy  
Title of the thesis: "Antimicrobial activity of purified compounds extracted from *Commiphora erythraea*"
- 08.07.2005 **Scientific high school degree**  
Liceo Scientifico "Galileo Galilei", Perugia, Italy

**FELLOWSHIPS AND AWARDS**

01.03.2019 – 28.02.2022 Postdoctoral research grant  
 Fondazione Celiachia, Genova, Italy  
 Title project: “Exploiting the mast cells plasticity for predictive signatures of *Candida albicans* commensalism vs pathogenicity in celiac disease”

**PERSONAL SKILLS**

**Mother tongue** Italian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Language proficiency certification – Centro Linguistico Di Ateneo (CLA)					
French	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	B1	B1	B1	B1	B1

**Technical skills**
**Animal Handling:**

- Handling of small rodents and their treatment;
- Acquisition of the methods for removal and collection of body fluids and tissues;
- Handling of the models for the induction of fungal infections (i.e. pulmonary aspergillosis, allergic bronchopulmonary aspergillosis, mucosal candidiasis, vaginal candidiasis) and bacterial infections (i.e. pulmonary infection with *Pseudomonas aeruginosa*, oral infection with *Porphyromonas gingivalis*);
- Handling of the models for the induction of vaccination, acute and chronic colitis, celiac disease and metabolic syndrome.

**Human Samples Handling:**

- Management of nasal and oropharyngeal swabs from hematological patients;
- Management of sputum and blood from cystic fibrosis patients;
- Cell purification from human blood and cultures in vitro.

**Biochemical and Molecular Biology:**

- Extraction of DNA and RNA from any biological samples;
- PCR, RT-PCR, qPCR;
- ELISA assay;
- Staining of the tissue sections: Hematoxylin-Eosin, Periodic acid-Schiff, Masson’s Trichrome, Gomori staining, Gram and May-Grünwald/Giemsastaining;
- Immunohistochemistry/immunofluorescence on tissues and cells.

**Cell Biology:**

- Evaluation of phagocytosis, killing and invasion of different fungal pathogens;
- Cell purification (macrophages, neutrophils, dendritic cells, innate lymphoid cells, T lymphocytes, mast cells);
- In vitro studies with adherent and suspension cell cultures;
- Techniques allowing for the maintenance and growth of bacterial and yeast cell cultures;
- Flow cytometry.

**Computer knowledge**

- Office (Word, Excel, Access, Publisher, PowerPoint);
- Adobe (Acrobat, Photoshop);
- Cell ^ P, software for creating and editing images captured using an optical microscope and fluorescence OLYMPUS DP71;
- EndNote X8, software for creating online bibliographic databases and organize bibliographies according to the standards required by the most important international journals;
- Fiji (Fiji Is Just Image.J) software processing and analysis of digital images;

- GraphPad Prism, basic biostatistics software;
- Editorial assistance.

## TEACHING ACTIVITIES

- Since 2017 Supervisor and mentor of graduate and PhD students:
- Dr. Andrea Federici, Master's Degree in Medical, Veterinary and Forensic Biotechnological Sciences. Thesis title: "Mast cells and IL-9 regulate intestinal permeability in *Candida albicans* infection"
  - Dr. Valentina Solito, Master's Degree in Biomolecular and Environmental Sciences. Thesis title: "Il ruolo dell'IL-9 nella vulvovaginite da *Candida*"
  - Dr. Maria Rosaria Maio, Degree in Biotechnology. Thesis title "Thymosin  $\beta$ 4 ameliorates lung pathology by restoring defective autophagy in CGD mice"
  - Dr. Camilla Bracalente, Master's Degree in Veterinary Medicine. Thesis title "Animal models of autoimmune hepatopathies and possible innovative treatments"
  - Dr. Fiorella D'Onofrio, PhD in Systems Biology in Immune and Infectious Diseases. Thesis title "Host and microbial regulation of tryptophan metabolism: from preclinical models to human diseases"

## MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- Since 2021 Italian Society of Pathology and Translational Medicine (SIPMeT), Italy

## ADDITIONAL INFORMATION

- Patents Patent application on "Method of treatment of immune checkpoint inhibitor-related immune adverse effects" by G. Renga, M.M. Bellet, M. Pariano, C. Costantini, L. Romani, and E. Garaci is pending (US20210077585A1).

## POSTER AT NATIONAL AND INTERNATIONAL MEETINGS

*VIII Italian Convention of Researchers in Cystic Fibrosis. Verona, Italy. 2-4 December 2010.* Iannitti G. R, De Luca A, Giovannini G, Casagrande A, Cunha C, Carvalho A, Puccetti M, Borghi M, **Renga G**, De Benedictis F.M, Romani L. Cystic fibrosis Th17/Treg imbalance to *Aspergillus fumigatus*: insights for novel anti-inflammatory strategies and immunogenetic screening.

*15<sup>th</sup> International Congress of Immunology (ICI) SM5 Satellite Meeting. Perugia, Italy. 29-30 August 2013.* Borghi M, Iannitti G. R, De Luca A, Puccetti M, Galosi C, Oikonomou V, **Renga G**, Casagrande A, Romani L. IL-1 blockade as a potential therapeutic target in aspergillosis.

*ALLFUN FINAL MEETING. Borgo Riccio, Torchiara, Salerno, Italy. 13-15 April 2014.*

- Oikonomou V, Moretti S, **Renga G**, De Luca A, Iannitti G. R, Borghi M, Palmerini C.A, Romani L. *Aspergillus fumigatus* induces an IFN- $\gamma$ /Death Associated Protein Kinase 1-dependent autophagy.
- Puccetti M, Borghi M, De Luca A, Renga G, Oikonomou V, Cunha C, Carvalho A, Romani L. Inflammasome activation in murine and human vaginal candidiasis.

*7<sup>th</sup> Advances against Aspergillosis. Manchester, UK. 3-5 March 2016.* Oikonomou V, Moretti S, **Renga G**, Galosi C, Iannitti G. R, Borghi M, Palmerini C.A, Carotti A, D'Amico L, Velardi A, Aversa F, Napolioni V and Romani L. Autophagy in *Aspergillus fumigatus* infection and immunity.

*XIV Italian Convention of Researchers in Cystic Fibrosis. Verona, Italy. 24-26 November 2016.* Pariano M, Puccetti M, Oikonomou V, Borghi M, **Renga G**, Moretti S, Romani L. Anakinra in Cystic fibrosis: from targeting pathogenic inflammation to correcting CFTR defects.

*Gordon Research Conferences. Galveston, Texas. 15-20 January 2017.*

- **Renga G**, Oikonomou V, Borghi M, Puccetti M, Pariano M, Romani L, Moretti S. IL-9's function in mucosal candidiasis: from allergic cytokine to key regulator.
- Oikonomou V, Moretti S, **Renga G**, Galosi C, Borghi M, Pariano M, Puccetti M, Palmerini C.A, Napolioni V, Romani L. Noncanonical fungal autophagy inhibits inflammation in response to IFN- $\gamma$  via DAPK1.
- Moretti S, **Renga G**, Oikonomou V, Galosi C, Pariano M, Iannitti RG, Borghi M, Puccetti M, Paolicelli G, Zelante T, Napolioni V, Romani L. A Mast Cell-ILC2-Th9 pathway promotes lung inflammation in Cystic fibrosis.

*XV Italian Convention of Researchers in Cystic Fibrosis. Verona, Italy. 26-28 October 2017.* Pariano M, Puccetti M, Oikonomou V, Borghi M, Vilella VR, Stincardini C, Sforza L, **Renga G**, Romani L. Anakinra in Cystic fibrosis: from targeting pathogenic inflammation to correcting CFTR defects.

*XVI Italian Convention of Researchers in Cystic Fibrosis. Verona, Italy. 22-24 November 2018.*

- Pariano M, Puccetti M, Oikonomou V, Borghi M, Vilella VR, Stincardini C, Sforza L, **Renga G**, Romani L. Anakinra in Cystic Fibrosis: from targeting pathogenic inflammation to correcting CFTR defects.
- Borghi M, Pariano M, Stincardini C, Sforza L, **Renga G**, Sellitto F, Pessia M, Romani L, Bellet MM. Thymosin alpha 1 in cystic fibrosis: from the lung to the gut.
- Stincardini C, Puccetti P, Borghi M, Sforza L, **Renga G**, Costantini C, Pessia M, Ricci M, Giovagnoli S, Romani L. Pharmacology and therapeutics of inhaled indoles, as aryl hydrocarbon receptor ligands, in cystic fibrosis.

*XVII Italian Convention of Researchers in Cystic Fibrosis. Verona, Italy. 14-16 November 2019.* Borghi M, Puccetti M, Pariano M, Stincardini C, Sforza L, **Renga G**, Costantini C, Ricci M, Giovagnoli S, Romani L. Pharmacology and therapeutics of inhaled indoles, as aryl hydrocarbon receptor ligands, in cystic fibrosis.

*XII National Congress SIICA Goes Virtual. 26-28 May 2021.*

- D'Onofrio F, **Renga G**, Bellet MM, Pariano M, Stincardini C, Santarelli I, Costantini C, Romani L. Tryptophan metabolic pathways in fungal diseases.
- Santarelli I, **Renga G**, Pariano M, D'Onofrio F, Bellet MM, Stincardini C, Costantini C, Romani L. Xenobiotic receptors cross-talk in lung infection and inflammation.

*85<sup>th</sup> Symposium: Biological Time Keeping (virtual). Cold Spring Harbor, NY, US. 1-5 June 2021.* Stincardini C, Pariano M, **Renga G**, Gatticchi L, D'Onofrio F. The circadian control of tryptophan metabolism in infectious diseases.

## NATIONAL AND INTERNATIONAL MEETINGS

15<sup>th</sup> International Congress of Immunology (ICI) SM5 satellite meeting: "Fungi in the setting of inflammation, allergy and autoimmune diseases: translating basic science into clinical practices" (All Fun). Perugia, Italy. August 29-30, 2013.

Gordon Research Conferences 2017: "Immunology of fungal infections - Fundamental Insights and Therapeutic Potential: Advances in Understanding the Host-Fungus Interaction", Galveston, Texas US. January 15-20, 2017.

5<sup>th</sup> International Symposium of Thymosins in health and disease, Washington DC, Maryland US. November 15-17, 2017. *Participation as invited speaker.*

8<sup>th</sup> Advances Against Aspergillosis, Lisbon, Portugal. February 1-3, 2018.

XVI Italian Convention of Researchers in Cystic Fibrosis. Verona, Italy. November 22-24, 2018.

Gordon Research Conferences 2019: "Immunology of fungal infections - Mechanisms of Fungal Immunopathology", Galveston, Texas US. January 13-18, 2019. *Participation as invited speaker.*

8<sup>th</sup> Associazione Italiana Celiachia National Congress: "The future of Celiac Disease", Milan, Italy. September 27, 2019.

SIPMeT Young Scientist Meeting 2021 "Molecular Pathology: from bench to bedside", Perugia, Italy. December 10-11, 2021. *Participation as invited speaker.*

## PUBLICATIONS

1. Moretti S, Bozza S, Oikonomou V, **Renga G**, Casagrande A, Iannitti RG, Puccetti M, Garlanda C, Kim S, Li S, van de Veerdonk FL, Dinarello CA, Romani L. IL-37 inhibits inflammasomes activation and disease severity in murine aspergillosis. *PLoS Pathog*, 2014.
2. Borghi M, **Renga G**, Puccetti M, Oikonomou V, Palmieri M, Galosi C, Bartoli A, Romani L. Antifungal Th immunity: growing up in family. *Front Immunol*, 2014.
3. Moretti S, Bartolommei L, Galosi C, **Renga G**, Oikonomou V, Zamparini F, Ricci G, Borghi M, Puccetti M, Piobbico D, Eramo S, Conti C, Lomurno G, Bartoli A, Napolioni V, Romani L. Fine-tuning of Th17 cytokines in periodontal disease by IL-10. *J Dent Res*, 2015.
4. Rizzetto L, Ifrim DC, Moretti S, Tocci N, Cheng SC, Quintin J, **Renga G**, Oikonomou V, De Filippo C, Weil T, Blok BA, Lenucci MS, Santos MA, Romani L, Netea MG, Cavalieri D. Fungal chitin induces trained immunity in human monocytes during cross-talk of the host with *Saccharomyces cerevisiae*. *J Biol Chem*, 2016.
5. Oikonomou V, Moretti S, **Renga G**, Galosi C, Borghi M, Pariano M, Puccetti M, Palmerini CA, Amico L, Carotti A, Prezioso L, Spolzino A, Finocchi A, Rossi P, Velardi A, Aversa F, Napolioni V, Romani L. Noncanonical fungal autophagy inhibits inflammation in response to IFN- $\gamma$  via DAPK1. *Cell Host Microbe*, 2016.
6. Moretti S, **Renga G**, Oikonomou V, Galosi C, Pariano M, Iannitti RG, Borghi M, Puccetti M, De Zuani M, Pucillo CE, Paolicelli G, Zelante T, Renaud JC, Bereshchenko O, Sportoletti P, Lucidi V, Russo MC, Colombo C, Fiscarelli E, Lass-Flörl C, Majo F, Ricciotti G, Ellemunter H, Ratclif L, Talesa VN, Napolioni V, Romani L. A mast cell-ILC2-Th9 pathway promotes lung inflammation in Cystic fibrosis. *Nat Commun*, 2017.
7. Puccetti M, Paolicelli G, Oikonomou V, De Luca A, **Renga G**, Borghi M, Pariano M, Stincardini C, Scaringi L, Giovagnoli S, Ricci M, Romani L, Zelante T. Towards targeting the Aryl hydrocarbon receptor in Cystic fibrosis. *Mediators Inflamm*, 2018.
8. Oikonomou V, **Renga G**, De Luca A, Borghi M, Pariano M, Puccetti M, Paolicelli G, Stincardini C, Costantini C, Bartoli A, Zelante T, Romani L. Autophagy and LAP in the fight against fungal infections: regulation and therapeutics. *Mediators Inflamm*, 2018.
9. **Renga G**, Moretti S, Oikonomou V, Borghi M, Zelante T, Paolicelli G, Costantini C, De Zuani M, Vilella VR, Raia V, Del Sordo R, Bartoli A, Baldoni M, Renaud J.C, Sidoni A, Garaci E, Maiuri L, Pucillo C and Romani L. IL-9 and mast cells are key players of *Candida albicans* commensalism and pathogenesis in the gut. *Cell Reports*, 2018.
10. **Renga G**, Oikonomou V, Stincardini C, Pariano M, Borghi M, Costantini C, Bartoli A, Garaci E, Goldstein AL, Romani L. Thymosin  $\beta$ 4 limits inflammation through autophagy. *Expert Opin Biol Ther*, 2018.
11. Stincardini C, **Renga G**, Vilella V, Pariano M, Oikonomou V, Borghi M, Bellet MM, Sforna L, Costantini C, Goldstein AL, Garaci E, Romani L. Cellular proteostasis: a new twist in the action of thymosin  $\alpha$ 1. *Expert Opin Biol Ther*, 2018.
12. Costantini C, **Renga G**, Oikonomou V, Paolicelli G, Borghi M, Pariano M, De Luca A, Puccetti M, Stincardini C, Mosci P, Bartoli A, Zelante T, Romani L. The mast cell-aryl hydrocarbon receptor interplay at the host-microbe interface. *Mediators Inflamm*, 2018.
13. **Renga G**, Borghi M, Oikonomou V, Mosci P, Bartoli A, Renaud JC, Romani L, Costantini C. IL-9 integrates the host-*Candida* cross-talk in vulvovaginal candidiasis to balance inflammation and tolerance. *Front Immunol*, 2018.
14. Vilella VR, Venerando A, Cozza G, Esposito S, Ferrari E, Monzani R, Spinella MC, Oikonomou V, **Renga G**, Tosco A, Rossin F, Guido S, Silano M, Garaci E, Chao YK, Grimm C, Luciani A, Romani L, Piacentini M, Raia V, Kroemer G, Maiuri L. A pathogenic role for cystic fibrosis transmembrane conductance regulator in celiac disease. *EMBO Journal*, 2018.

15. De Zuani M, Paolicelli G, Zelante T, **Renga G**, Romani L, Arzese A, Pucillo C, Frossi B. Mast cells respond to *Candida albicans* infections and modulate macrophages phagocytosis of the fungus. *Front Immunol*, 2018.
16. Napolioni V, Pariano M, Borghi M, Oikonomou V, Galosi C, De Luca A, Stincardini C, Vacca C, **Renga G**, Lucidi V, Colombo C, Fiscarelli EV, Lass-Flörl C, Carotti A, D'Amico L, Majo F, Russo MC, Ellemunter H, Spolzino S, Mosci P, Brancorsini S, Aversa F, Velardi A, Romani L, Costantini C. Genetic Polymorphisms Affecting IDO1 or IDO2 Activity Differently Associate with Aspergillosis in Humans. *Front Immunol*, 2019.
17. Costantini C, Bellet MM, Pariano M, **Renga G**, Stincardini C, Goldstein AL, Garaci E, Romani L. A Reappraisal of Thymosin Alpha1 in Cancer Therapy. *Front Oncol*, 2019.
18. Borghi M, Pariano M, Solito V, Puccetti M, Bellet MM, Stincardini C, **Renga G**, Vacca C, Sellitto F, Mosci P, Brancorsini S, Romani L, Costantini C. Targeting the Aryl Hydrocarbon Receptor protects from vulvovaginal candidiasis via the IL-22-IL-18 cross-talk. *Front Immunol*, 2019.
19. **Renga G**, Oikonomou V, Moretti S, Stincardini C, Bartoli A, Brancorsini S, Mosci P, Finocchi A, Rossi P, Costantini C, Garaci E, Goldstein AL and Romani L. Thymosin  $\beta$ 4 promotes autophagy and repair via HIF-1 $\alpha$  stabilization in chronic granulomatous disease. *Life Sci Alliance*, 2019.
20. Gressler M, Heddergott C, N'Go IC, **Renga G**, Oikonomou V, Moretti S, Coddeville B, Gaifem J, Silvestre R, Romani L, Latgé JP, Fontaine T. Definition of the Anti-inflammatory Oligosaccharides Derived From the Galactosaminogalactan (GAG) From *Aspergillus fumigatus*. *Front Cell Infect Microbiol*. 2019.
21. **Renga G**, Bellet MM, Stincardini C, Pariano M, Oikonomou V, Villella VR, Brancorsini S, Clerici C, Romani L, Costantini C. To Be or Not to Be a Pathogen: *Candida albicans* and Celiac Disease. *Front Immunol*. 2019
22. Costantini C, Bellet MM, **Renga G**, Stincardini C, Borghi M, Pariano M, Cellini B, Keller N, Romani L, Zelante T. Tryptophan Co-Metabolism at the Host-Pathogen Interface. *Front Immunol*. 2020
23. Costantini C, **Renga G**, Sellitto F, Borghi M, Stincardini C, Pariano M, Zelante T, Chiarotti F, Bartoli A, Mosci P, Romani L, Brancorsini S, Bellet MM. Microbes in the Era of Circadian Medicine. *Front Cell Infect Microbiol*. 2020
24. Chiappalupi S, Sorci G, Vukasinovic A, Salvadori L, Sagheddu R, Coletti D, **Renga G**, Romani L, Donato R, Riuzzi F. Targeting RAGE prevents muscle wasting and prolongs survival in cancer cachexia. *J Cachexia Sarcopenia Muscle*. 2020
25. Borghi M, Puccetti M, Pariano M, **Renga G**, Stincardini C, Ricci M, Giovagnoli S, Costantini C, Romani L. Tryptophan as a Central Hub for Host/Microbial Symbiosis. *Int J Tryptophan Res*. 2020
26. Castellano-González G, McGuire HM, Luciani F, Clancy LE, Li Z, Avdic S, Hughes B, Singh M, Fazekas de St Groth B, **Renga G**, Pariano M, Bellet MM, Romani L, Gottlieb DJ. Rapidly expanded partially HLA DRB1-matched fungus-specific T cells mediate in vitro and in vivo antifungal activity. *Blood Adv*. 2020
27. **Renga G**, Bellet MM, Pariano M, Gargaro M, Stincardini C, D'Onofrio F, Mosci P, Brancorsini S, Bartoli A, Goldstein AL, Garaci E, Romani L, Costantini C. Thymosin  $\alpha$ 1 protects from CTLA-4 intestinal immunopathology. *Life Sci Alliance*. 2020
28. Costantini C, Puccetti M, Pariano M, **Renga G**, Stincardini C, D'Onofrio F, Bellet MM, Cellini B, Giovagnoli S, Romani L. Selectively targeting key inflammatory pathways in cystic fibrosis. *Eur J Med Chem*. 2020
29. Cellini B, Zelante T, Dindo M, Bellet MM, **Renga G**, Romani L, Costantini C. Pyridoxal 5'-Phosphate-Dependent Enzymes at the Crossroads of Host-Microbe Tryptophan Metabolism. *Int J Mol Sci*. 2020
30. Di Stadio A, Costantini C, Renga G, Pariano M, Ricci G, Romani L. The Microbiota/Host Immune System Interaction in the Nose to Protect from COVID-19. *Life (Basel)*. 2020

31. Bellet MM, Borghi M, Pariano M, **Renga G**, Stincardini C, D'Onofrio F, Brancorsini S, Garaci E, Costantini C, Romani L. Thymosin alpha 1 exerts beneficial extrapulmonary effects in cystic fibrosis. *Eur J Med Chem*. 2021
32. Klionsky D.J et al. **Renga G**. Guidelines for the use and interpretation of assays for monitoring autophagy 4th edition. *Autophagy*. 2021
33. Bozza S, Iannitti RG, Pariano M, **Renga G**, Costantini C, Romani L, Bayry J. Small Molecule CCR4 Antagonists Protect Mice from *Aspergillus* Infection and Allergy. *Biomolecules*. 2021
34. Puccetti M, Pariano M, **Renga G**, Santarelli I, D'Onofrio F, Bellet MM, 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
35. Pariano M, Pieroni S, De Luca A, Iannitti RG, Borghi M, Puccetti M, Giovagnoli S, **Renga G**, D'Onofrio F, Bellet MM, Stincardini C, Della-Fazia MA, Servillo G, van de Veerdonk FL, Costantini C, Romani L. Anakinra Activates Superoxide Dismutase 2 to Mitigate Inflammasome Activity. *Int J Mol Sci*. 2021
36. D'Onofrio F, **Renga G**, Puccetti M, Pariano M, Bellet MM, Santarelli I, Stincardini C, Mosci P, Ricci M, Giovagnoli S, Costantini C and Romani L. Indole-3-Carboxaldehyde Restores Gut Mucosal Integrity and Protects from Liver Fibrosis in Murine Sclerosing Cholangitis. *Cells*. 2021
37. 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
38. Pariano M, Pieroni S, De Luca A, Iannitti RG, Borghi M, Puccetti M, Giovagnoli S, **Renga G**, D'Onofrio F, Bellet MM, Stincardini C, Della-Fazia MA, Servillo G, van de Veerdonk FL, Costantini C, Romani L. Anakinra Activates Superoxide Dismutase 2 to Mitigate Inflammasome Activity. *Int J Mol Sci*. 2021
39. Nunzi E, **Renga G**, Palmieri M, Pieraccini G, Pariano M, Stincardini C, D'Onofrio F, Santarelli I, Bellet MM, Bartoli A, Costantini C, Romani L. A Shifted Composition of the Lung Microbiota Conditions the Antifungal Response of Immunodeficient Mice. *Int J Mol Sci*. 2021
40. Rubbiani R, Weil T, Tocci N, Mastrobuoni L, Jeger S, Moretto M, Ng J, Lin Y, Hess J, Ferrari S, Kaech A, Young L, Spencer J, Moore AL, Cariou K, **Renga G**, Pariano M, Romani L, Gasser G. In vivo active organometallic-containing antimycotic agents. *RSC Chem Biol*. 2021
41. van de Veerdonk FL, **Renga G**, Pariano M, Bellet MM, Servillo G, Fallarino F, De Luca A, Iannitti RG, Piobbico D, Gargaro M, Manni G, D'Onofrio F, Stincardini C, Sforna L, Borghi M, Castelli M, Pieroni S, Oikonomou V, Villella VR, Puccetti M, Giovagnoli S, Galarini R, Barola C, Maiuri L, Maria Agnese DF, Cellini B, Talesa V, Dinarello CA, Costantini C, Romani L. Anakinra restores cellular proteostasis by coupling mitochondrial redox balance to autophagy. *J Clin Invest*. 2021
42. **Renga G**, Nunzi E, Pariano M, Puccetti M, Bellet MM, Pieraccini G, D'Onofrio F, Santarelli I, Stincardini C, Aversa F, Riuzzi F, Antognelli C, Gargaro M, Bereshchenko O, Ricci M, Giovagnoli S, Romani L, Costantini C. Optimizing therapeutic outcomes of immune checkpoint blockade by a microbial tryptophan metabolite. *J Immunother Cancer*. 2022

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