Prof. **GIOVANNA RICCARDI**

PERSONAL DATA

Nationality: Italian.
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EDUCATION

1972- High School Diploma, Scientific Liceum "T. Taramelli" - Pavia.
1976 - Doctoral Degree *cum laude* in Biology (University of Pavia).

PROFESSIONAL POSITIONS

From October 2002 - Full Professor of Microbiology, at the Department of Genetics and Microbiology, University of Pavia.
From January 2010 to December 2012 - President of the SIMGBM (Italian Society of General Microbiology and Microbial Biotechnologies).
From August 2011 - Member of the European Academy of Microbiology.

RESEARCH

Two main lines of research are actually pursuing:

1) Identification of targets for new drugs in *Mycobacterium tuberculosis*

2) Deciphering the role of RND efflux transporters in *Burkholderia cenocepacia,* a deadly cystic fibrosis opportunistic pathogen

MOST PROMINENT PUBLICATIONS

1. CHIARELLI LR, MORI G, ORENA BS, ESPOSITO M, LANE T, DE JESUS LOPES RIBEIRO AL, DEGIACOMI G, ZEMANOVÁ J, SZÁDOCKA S, HUSZÁR S, PALČEKOVÁ Z, MANFREDI M, GOSETTI F, LELIÈVRE J, BALLELL L, KAZAKOVA E, MAKAROV V, MARENGO E, MIKUSOVA K, COLE ST, RICCARDI G, EKINS S, PASCA MR. (2018). A multitarget approach to drug discovery inhibiting *Mycobacterium tuberculosis* PyrG and PanK. **SCI REP**. 8:3187. DOI: 10.1038/S41598-018-21614-4.
2. ESPOSITO M, SZADOCKA S, DEGIACOMI G, ORENA BS, MORI G, PIANO V, BOLDRIN F, ZEMANOVÁ J, HUSZÁR S, BARROS D, EKINS S, LELIÈVRE J, MANGANELLI R, MATTEVI A, PASCA MR, RICCARDI G, BALLELL L, MIKUŠOVÁ K, CHIARELLI LR. A (2017). Phenotypic Based Target Screening Approach Delivers New Antitubercular CTP Synthetase Inhibitors. **ACS INFECT DIS**. doi: 10.1021/acsinfecdis.7b00006.
3. SCOFFONE VC, CHIARELLI LR, MAKAROV V, BRACKMAN G, ISRAYILOVA A, AZZALIN A, FORNERIS F, RIABOVA O, SAVINA S, COENYE T, RICCARDI G, BURONI S. (2016) Discovery of new diketopiperazines inhibiting *Burkholderia cenocepacia* quorum sensing *in vitro* and *in vivo*. **SCI REP**. 1;6:32487. doi: 10.1038/srep32487.
4. ISRAYILOVA A, BURONI S, FORNERIS F, SCOFFONE VC, SHIXALIYEV NQ, RICCARDI G, CHIARELLI LR. (2016) Biochemical Characterization of Glutamate Racemase-A New Candidate Drug Target against *Burkholderia cenocepacia* Infections. PLoS One. 11:e0167350. doi: 10.1371/journal.pone.0167350.
5. ALBESA-JOVÉ D, COMINO N, TERSA M, MOHORKO E, URRESTI S, DAINESE E, CHIARELLI LR, PASCA MR, MANGANELLI R, MAKAROV V, RICCARDI G, SVERGUN DI, GLOCKSHUBER R, GUERIN ME (2015). The redox state regulates the conformation of Rv2466c to activate the antitubercular prodrug TP053. **JOURNAL OF BIOLOGICAL CHEMISTRY**, ISSN: 1083-351X, doi: pii: jbc.M115.677039
6. MORI G, CHIARELLI LR, ESPOSITO M, MAKAROV V, BELLINZONI M, HARTKOORN RC, DEGIACOMI G, BOLDRIN F, EKINS S, DE JESUS LOPES RIBEIRO AL, MARINO LB, CENTÁROVÁ I, SVETLÍKOVÁ Z, BLAŠKO J, KAZAKOVA E, LEPIOSHKIN A, BARILONE N, ZANONI G, PORTA A, FONDI M, FANI R, BAULARD AR, MIKUŠOVÁ K, ALZARI PM, MANGANELLI R, DE CARVALHO LP, RICCARDI G, COLE ST, PASCA MR (2015). Thiophenecarboxamide Derivatives Activated by EthA Kill *Mycobacterium tuberculosis* by Inhibiting the CTP Synthetase PyrG.. **CHEMISTRY & BIOLOGY**, vol. 22, p. 917-927, ISSN: 1074-5521, doi: 10.1016/j.chembiol.2015.05.016
7. BURONI S, MATTHIJS N, SPADARO F, VAN ACKER H, SCOFFONE VC, PASCA M, RICCARDI G, COENYE T (2014). Differential role of RND efflux pumps in antimicrobial drug resistance of sessile and planktonic *Burkholderia cenocepacia* cells. **ANTIMICROBIAL AGENTS AND CHEMOTHERAPY**, vol. 58, p. 7424-7429, ISSN: 0066-4804, doi: 10.1128/AAC.03800-14
8. SCOFFONE VC, SPADARO F, UDINE C, MAKAROV V, FONDI M, FANI R, DE ROSSI E, RICCARDI G, BURONI S (2014). Mechanism of resistance to an antitubercular 2-thiopyridine derivative that is also active against *Burkholderia cenocepacia*. **ANTIMICROBIAL AGENTS AND CHEMOTHERAPY**, vol. 58, p. 2415-2417, ISSN: 0066-4804, doi: 10.1128/AAC.02438-13
9. HARTKOORN R, RYABOVA O, CHIARELLI L, RICCARDI G, MAKAROV V, COLE ST. (2014). The mechanism of action of 5-nitrothiophenes against Mycobacterium

BALGANESH T, TYAGI S, GROSSET J, RICCARDI G, COLE ST. (2009). Benzothiazinones Kill *Mycobacterium tuberculosis* by Blocking Arabinan Synthesis. **SCIENCE**, vol. 324, p. 801-804, ISSN: 0036-8075, doi: 10.1126/science.1171583

19. CHRISTOPHE T, JACKSON M, JEON HK, FENISTEIN D, CONTRERAS-DOMINGUEZ M, KIM J, GENOVESIO A, CARRALOT JP, EWANN F, KIM EH, LEE SY, KANG S, SEO MJ, PARK EJ, SKOVIEROVÁ H, PHAM H, RICCARDI G, NAM JY, MARSOLLIER L, KEMPF M, JOLY-GUILLOU ML, OH T, SHIN WK, NO Z, NEHRBASS U, BROSCH R, COLE ST, BRODIN P. (2009). High content screening identifies decaprenyl-phosphoribose 2' epimerase as a target for intracellular antimycobacterial inhibitors..**PLOS PATHOGENS**, vol. 5, ISSN: 1553-7374, doi: 10.1371/journal.ppat.1000645