



Curriculum Vitae

Adriana Rosato

Experienced clinical microbiologist/molecular biologist scientist with special interests in the area of infectious diseases/antimicrobial development and resistance. My works in Infectious Diseases have extended for more than 24 years covering both aspects clinical, basic the translational aspects of related diseases. I have been conducting clinical and basic research on antimicrobials and multidrug-resistant (MDR) Gram-negative and Gram-positive bacterial pathogens to which treatment options are limited. Specifically, in the last nineteen years, my research goals have been to characterize evolutionary and molecular mechanisms underlying antibiotic resistance during the dynamic process of host/pathogen infections. Multi-drug resistant (MDR) organisms are important human pathogens responsible for infections to which antimicrobial options are limited. I have been fortunate enough to contribute in many areas of the field, with the personal conviction that the strategy in combating antimicrobial resistance needs to be directed from the view of multiple and coordinate efforts, basic and clinical research, collaborative studies with the pharmaceutical industry to speed up the discovery of new antibiotics, policies and measures to control the spread of resistance (hospital and community settings) and by increasing scientific collaborations with diverse parts including USA, South America and Europe. My research interests during the last years have been extended to the impact of antibiotics in the gut microbiota leading to dybiosis leading to selection of antimicrobial resistant pathogens. My activities include as a group leader, pre-clinical and correlative clinical studies, writing protocols, presenting at scientific meetings and conferences developing collaborative relationships. I have a great deal of expertise in microbiology testing, molecular biology, diagnostics, genomic, transcriptomic analysis and in-vivo models. Moreover, working in close collaboration as advisor consultant of pharmaceutical companies/drug discovery, NIH-NIAID, and WHO division antimicrobial resistance. I have invested timeless efforts in contributing and advising the field of Antimicrobial resistance by participating in revision of scientific advances and discoveries at the NIH and European Agencies, having had the opportunity of contributing my input to important decisions of funding and studies in the area of Antimicrobial Resistance. In addition, I have been contributing to the identification of antibacterial approaches and their execution, trained in areas of GCP, clinical trials, and CRO relationships. More important, over the years I have strongly committed to mentoring young investigators and I have served and I`m serving as a primary mentor for several individuals. This extended experience has also helped me to grow as a scientist, mentor, and team leader, and making me better suited for the tasks as the evolution in the field requires.

Identificação

IDENTIFICAÇÃO PESSOAL

Nome completo

Adriana Rosato

NOMES DE CITAÇÃO

Rosato, Adriana

IDENTIFICADORES DE AUTOR

Ciência ID

B61A-36C3-2A39

Scopus Author Id

[55947430200](#)

DOMÍNIOS DE ATUAÇÃO

Ciências Naturais - Ciências Biológicas - Microbiologia

IDIOMAS

Idioma	Conversa ção	Leitura	Escrita	Compreen são	Peer- review
Inglês	Utilizado r proficien te (C2)				
Francês	Utilizado r proficien te (C2)				
Espanhol; Castelhano	Utilizado r	Utilizado r	Utilizado r	Utilizado r	Utilizado r

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Formação

	Grau	Classificação
1993/09/01 - 1997/04/04 Concluído	Microbiology and antimicrobials (Doctor of Philosophy) Université Paris-Saclay Faculté de Pharmacie, França	
1992/09/01 - 1993/07/01 Concluído	Microbiology (Master) Université Paris-Saclay Faculté de Pharmacie, França	
1982/02/01 - 1988/03/31 Concluído	Biochemistry (Bachelor) Universidad Nacional de San Luis, Argentina	

Percurso profissional

CIÊNCIA

	Categoria Profissional Instituição de acolhimento	Empregador
2010/08/01 - 2020/05/01	Investigador principal (carreira) (Investigação) Houston Methodist Academic Institute, Estados Unidos	Houston Methodist Academic Institute, Estados Unidos
2004/08 - 2010/08	Investigador principal (carreira) (Investigação) Virginia Commonwealth University, Estados Unidos	Virginia Commonwealth University, Estados Unidos

1998/09/01 - 2002/10/01	Pós-doutorado (Investigação)	Virginia Commonwealth University, Estados Unidos
1997/04/02 - 1999/05/08	Pós-doutorado (Investigação)	University of Southern California, Estados Unidos

DOCÊNCIA NO ENSINO SUPERIOR

	Categoria Profissional Instituição de acolhimento	Empregador
2020/05/01 - Atual	Professor Catedrático (Docente Universitário)	University of California Riverside, Estados Unidos
2010/08 - 2020/05	Professor Associado (Docente Universitário)	Weill Cornell Medicine, Estados Unidos
2002/10/01 - 2006/01/01	Professor Auxiliar (Docente Universitário)	Virginia Commonwealth University, Estados Unidos

OUTROS

	Categoria Profissional Instituição de acolhimento	Empregador
2020/04/08 - Atual	Executive Director Molecular Microbiology and Research Riverside University Health System, Estados Unidos	Riverside University Health System, Estados Unidos
2001/01/28 - 2006/01/01	Clinical microbiologist	Virginia Commonwealth University Medical Center, Estados Unidos

Projetos

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BOLSA

	Designação	Financiadores
2017 - Atual	Newly Identified mechanisms of Ceftaroline Resistance in Cystic Fibrosis MRSA R56 AI1187566-NIAID	National Institutes of Health Concluído
	Investigador responsável	
2015 - 2016	Identification of Mode of Action and Activity against MRSA skin infections of a natural pecan extract product N/A	Gillson Longenbaugh Foundation Concluído
	Investigador responsável	
2014 - 2015	Molecular Bases of DAP-mediated sensitization to β -lactams in MRSA R56AI102503-01A1NIH-NIAID	National Institutes of Health Concluído
	Investigador responsável	
2014 - 2015	Efficacy of Daptomycin/ ζ -lactams against VISA and homogenous DAPR/MRSA clinical strains N/A	Merck & Co Inc Concluído
	Investigador responsável	
2010 - 2015	SOS mediated Beta-lactam response and Development of Homogeneous Expression of Resistance in Methicillin Resistant S. aureus clinical isolates AIA080688-01A2	National Institutes of Health
	Investigador responsável	
2012 - 2013	Signal Pathways responsible of “see – saw” effect between Daptomycin and ζ -lactams in MRSA strains N/A	Merck & Co Inc
	Investigador responsável	

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	Designação	Financiadores
2007 - 2009	A Study of Passage-Related Pathways Daptomycin and Vancomycin Resistance in S.aureus N/A	Merck & Co Inc Concluído
Investigador responsável		
2004 - 2006	Regulation of mecA expression in S.aureus Clinical Isolates K22AI057724-01AI	Concluído
Investigador responsável National Institutes of Health, Estados Unidos		

OUTRO

	Designação	Financiadores
2010 - 2013	Start-up funding N01 AI-15447	
Investigador responsável		
2004 - 2006	Start Package N/A	
Investigador responsável		

Produções

PUBLICAÇÕES

Artigo em
conferência

- Costa, SS; Rosato, Adriana E.; Viveiros, Miguel; Couto, Isabel. "Development of multidrug resistance in staphylococci driven by efflux". 2018.

- Tabuenca, Arnold; Rosato, Roberto R.. "Rapid detection of the widely circulating B.1.617.2 (Delta) SARS-CoV-2 variant". *Pathology* (2022): <http://dx.doi.org/10.1016/j.pathol.2022.01.001>.
Acesso aberto · Publicado · 10.1016/j.pathol.2022.01.001
- 2 Gagetti, Paula; Rosato, Roberto R.; Rosato, Adriana E.. "Staphylococcus pseudintermedius's PBP4 Is Directly Associated with the Dissociated Oxacillin and Cefoxitin Phenotype". *Antibiotics* 10 11 (2021): 1299. <http://dx.doi.org/10.3390/antibiotics10111299>.
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Publicado · 10.1038/s42003-020-01313-5
- 6 Greber, Katarzyna E.; Roch, Melanie; Rosato, Mauro A.; Martinez, Maria P.; Rosato, Adriana E.. "Efficacy of newly generated short antimicrobial cationic lipopeptides against methicillin-resistant Staphylococcus aureus (MRSA)". *International Journal of Antimicrobial Agents* 55 3 (2020): 105827. <http://dx.doi.org/10.1016/j.ijantimicag.2019.10.008>.
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- Staphylococcus aureus infections in cystic fibrosis patients". *Journal of Antimicrobial Chemotherapy* 75 1 (2019): 126-134. <http://dx.doi.org/10.1093/jac/dkz418>
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- 8 Gagetti, Paula; Wattam, Alice R.; Giacoboni, Gabriela; De Paulis, Adriana; Bertona, Eugenia; Corso, Alejandra; Rosato, Adriana E.. "Identification and molecular epidemiology of methicillin resistant Staphylococcus pseudintermedius strains isolated from canine clinical samples in Argentina". *BMC Veterinary Research* 15 1 (2019): <http://dx.doi.org/10.1186/s12917-019-1990-x>.
Acesso aberto · 10.1186/s12917-019-1990-x
- 9 Gagetti, Paula; Wattam, Alice R.; Giacoboni, Gabriela; De Paulis, Adriana; Bertona, Eugenia; Corso, Alejandra; Rosato, Adriana E.. "Identification and molecular epidemiology of methicillin resistant Staphylococcus pseudintermedius strains isolated from canine clinical samples in Argentina". *BMC Veterinary Research* 15 1 (2019): <http://dx.doi.org/10.1186/s12917-019-1990-x>.
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- 12 Roch, Melanie; Varela, Maria Celeste; Taglialegna, Agustina; Rose, Warren E.; Rosato, Adriana E.. "Activity of Telavancin against Staphylococcus aureus Isolates, Including Those with Decreased Susceptibility to Ceftaroline, from Cystic Fibrosis Patients". *Antimicrobial Agents and Chemotherapy* 62 9 (2018):
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- 14 Roch, Melanie; Gagetti, Paula; Davis, James; Ceriana, Paola; Errecalde, Laura; Corso, Alejandra; Rosato, Adriana E.. "Daptomycin Resistance in Clinical MRSA Strains Is Associated with a High Biological Fitness Cost". *Frontiers in Microbiology* 8 (2017):
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- 16 Gagetti, P.; Pasteran, F.; Martinez, M. P.; Fatouraei, M.; Gu, J.; Fernandez, R.; Paz, L.; et al. "Modeling Meropenem Treatment, Alone and in Combination with Daptomycin, for KPC-Producing Klebsiella pneumoniae Strains with Unusually Low Carbapenem MICs". *Antimicrobial Agents and Chemotherapy* 60 8 (2016): 5047-5050.
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Publicado • 10.1086/664045

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- 54 "Inducible and constitutive expression of resistance to glycopeptides and vancomycin dependence in glycopeptide-resistant *Enterococcus avium*". *Antimicrobial Agents and Chemotherapy* 39 4 (1995): 830-833. <http://www.scopus.com/inward/record.url?eid=2-s2.0-0028932504&partnerID=MN8TOARS>.
Publicado
- 55 Goldstein, F. W.; Péan, Y.; Rosato, A.; Gertner, J.; Gutmann, L.. "Characterization of ceftriaxone-resistant Enterobacteriaceae: a multicentre study in 26 French hospitals". *Journal of Antimicrobial Chemotherapy* 32 4 (1993): 595-603. <http://dx.doi.org/10.1093/jac/32.4.595>.
Publicado · 10.1093/jac/32.4.595

APRESENTAÇÃO ORAL DE TRABALHO

	Título da apresentação	Nome do evento Anfitrião (Local do evento)
2016/09	Rosato AE. Cross-talks between mutated-MprF and PrsA proteins contribute to β -lactam sensitization (see-saw effect) and synergy during daptomycin resistance in MRSA"	3rd International Conference Pathophysiology of Staphylococci
2016/06	Rosato AE. Genetic Determinants and Role of Carbapenems in Acquisition of Ceftaroline Resistance in Cystic fibrosis- MRSA strains	ASM/ICAAC
2015/07	Rosato AE. Daptomycin resistance re-sensitize MRSA to β -lactams by modulating cell membrane and cell wall interactions.	Gordon Conference in Staphylococcal Diseases
2012/03	Rosato, AE. "Mechanisms associated to Methicillin Resistant Staphylococcus aureus (MRSA) clinical strains: going beyond mecA gene"	University of Texas, Department of Pathology and Laboratory Medicine, Houston, TX University of Texas, Department of Pathology and Laboratory Medicine, Houston, TX
2011/08	Plata K, Rosato R and Rosato A. Modulation of β -lactam resistance expression in MRSA by the accessory gene regulator agr.	Gordon Conference in S. aureus.
2010/09	Mehta S, Silverman J, Rubio A, and Rosato A. Increased expression of the VraSR two-component regulator contributes to decreased susceptibility to daptomycin in-vivo selected MRSA clinical strains.	International Symposium on Staphylococci and Staphylococcal Infections

2010/09	Mehta S, Silverman J, Rubio A, and Rosato A. Daptomycin resistance in MRSA clinical strains.	48th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)
2008/10	Plata, K.; Cuirolo A. and Rosato A. Characterization of a ceftobiprole-resistant mutant selected in vitro from a clinical MRSA isolate	48th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)
2005/08	Rosato, AE. Mechanism of β -lactam dependence in a clinical S.aureus isolate	Gordon Conferences, Staphylococcal Diseases
2001/12	Rosato A; Kreiswirth B, Craig W, Eisner W, Climo M., and Archer G. Identification and Characterization of mecA/blaZ Corepressors Among Clinical Staphylococcus aureus Isolates.	41th. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)
1993/10	Rosato, A.; Pierre, J.; Buu-Hoi, A.; Collatz, E. and Gutmann, L. Low level glycopeptide resistance in Enterococcus avium.	33th. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) American society for microbiology

COMISSÃO DE AVALIAÇÃO

	Descrição da atividade Tipo de assessoria	Instituição / Organização	Entidade financiadora
2017 - Atual	Grant Reviewer: ZRG1 IDM-Y 82S-DDR. Exploration of Antimicrobial Resistance Microbes and Antimicrobial Therapeutics. Avaliador		

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2017 - Atual	Present Grant Reviewer: BACP (Bacterial Pathogenesis) NIAID. Avaliador	
2015 - Atual	Grant Reviewer- British Society of Antimicrobial Chemotherapy, UK Avaliador	
2015 - Atual	Grant Reviewer:- European Society of Clinical Microbiology and Infectious Diseases (ESCMID) Avaliador	
2013 - Atual	Grant Reviewer- Leadership Group for a Clinical Research Network on Antibacterial Resistance (UM1) Avaliador	
2012 - Atual	Grant Reviewer - French National Research Antimicrobial Resistance Agency Avaliador	Agence nationale de la recherche, França
2012 - Atual	Grant Reviewer- Maryland Industrial Partnerships Program (MIPS) University of Maryland Avaliador	University of Maryland Baltimore, Estados Unidos
2012 - Atual	Grant Reviewer-The Portuguese Foundation for	Fundação para a Ciência e a

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	Descrição da atividade	Instituição / Entidade
	Science and Technology (FCT), Portugal Avaliador	Tecnologia, Portugal
2011/02 - Atual	I serve as a grant reviewer for NIAID /NIH and I play a substantial role in grant funds decision for research project of national institutions working in the field of Antimicrobial Discovery and Resistance , as well as microbiology and pathogenesis of MDR .	National Institutes of Health, Estados Unidos

CONSULTORIA / PARECER

	Descrição da atividade	Instituição / Organização
2018/05 - Atual	Consultant in clinical studies/development a consultant of clinical studies, design of Phase I , II and III protocols.	
2017 - Atual	Consultant at WHO- Pan American Health Organization (PAHO) – Antimicrobial Resistance	Pan American Health Organization, Estados Unidos
2016/03 - Atual	Consultant of WHO mission , design, planning and execution of National Plan of Antimicrobial Resistance.	

MEMBRO DE ASSOCIAÇÃO

Nome da associação

Tipo de participação

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2017 - Atual	Gulf Coast Consortia (GCC) Cluster for Antimicrobial Resistance (GCC AMR)
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2004 - Atual	Present Member Core Investigator of NARSA (Network of Antimicrobial Resistance in S.aureus)
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Distinções

PRÉMIO

2012	Journal highlights, Microbe Magazine (Best Publication of the year 2012) American Society for Microbiology, Estados Unidos
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2008	Faculty Award, Outstanding service as a mentor of ASM Minorities American Society for Microbiology, Estados Unidos
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2006	Faculty Award for Distinguished Research, VCU (Best Faculty based in research and NIH awards) Virginia Commonwealth University, Estados Unidos
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