

PUBLICAÇÕES DE 2020
CENTRO DE BACTERIOLOGIA – Instituto Adolfo Lutz

[Silent mutations in ribosomal protein genes are associated with high-risk clones of carbapenem-resistant *Acinetobacter baumannii* prevalent in Brazil.](#)

Barcellos TAF, Bueno MS, Cunha MPV, Nagamori FO, de Carvalho E, Takagi EH, Moreno LZ, Moreno AM, Chimara E, Tiba-Casas MR, Camargo CH.
Infect Genet Evol. 2020; 88:104686. doi: 10.1016/j.meegid.2020.104686.
PMID: 33359045

[Genomic surveillance of *Neisseria meningitidis* serogroup B invasive strains: Diversity of vaccine antigen types, Brazil, 2016-2018.](#)

de Lemos APS, Sacchi CT, Gonçalves CR, Camargo CH, Andrade AL.
PLoS One. 2020; 15(12):e0243375.
doi: 10.1371/journal.pone.0243375.
PMID: 33347452

[Hypervirulent *Klebsiella pneumoniae* as Unexpected Cause of Fatal Outbreak in Captive Marmosets, Brazil.](#)

Guerra JM, Fernandes NCCA, Morales Dos Santos AL, Barrel JSP, Petri BSS, Milanelo L, Tiba-Casas MR, Liserre AM, Gonçalves CR, Sacchi CT, Catão-Dias JL, Camargo CH.
Emerg Infect Dis. 2020;26(12):3039-3043. doi: 10.3201/eid2612.191562.
PMID: 33219810

[4CMenB Immunization Induces Serum Bactericidal Antibodies Against Non-Serogroup B Meningococcal Strains in Adolescents.](#)

Biolchi A, Tomei S, Brunelli B, Giuliani M, Bambini S, Borrow R, Claus H, Gorla MCO, Hong E, Lemos APS, Lucidarme J, Taha MK, Vogel U, Budroni S, Giuliani MM, Rappuoli R, Boucher P, Pizza M.
Infect Dis Ther. 2020 13. doi: 10.1007/s40121-020-00370-x.
PMID: 33185849

[Identification of a novel protein in the genome sequences of *Leptospira interrogans* with the ability to interact with host's components.](#)

Rossini AD, Teixeira AF, Souza Filho A, Souza GO, Vasconcellos SA, Heinemann MB, Romero EC, Nascimento ALTO.
J Microbiol Immunol Infect. 2020;53(1):163-175.
doi: 10.1016/j.jmii.2018.12.012.
PMID: 30713004

[Transmission of *Mycobacterium tuberculosis* presenting unusually high discordance between genotypic and phenotypic resistance to rifampicin in an endemic tuberculosis setting.](#)

Brandao AP, Pinhata JMW, Simonsen V, Oliveira RS, Ghisi KT, Rabello MCS, Fukasava S, Ferrazoli L.
Tuberculosis (Edinb). 2020 Sep 28;125:102004.
doi: 10.1016/j.tube.2020.102004.
PMID: 33017720

[Frequency of first and second-line drug resistance-associated mutations among resistant *Mycobacterium tuberculosis* clinical isolates from São Paulo, Brazil.](#)

Matsui T, Pinhata JMW, Rabello MCDS, Brandão AP, Ferrazoli L, Leão SC, Viana-Niero C, Oliveira RS.
Mem Inst Oswaldo Cruz. 2020;115:e200055. doi: 10.1590/0074-02760200055.
PMID: 32401997

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[Comparison of cell invasion, macrophage survival and inflammatory cytokines profiles between *Salmonella enterica* serovars Enteritidis and Dublin from Brazil.](#)

Campioni F, Gomes CN, Bergamini AMM, Dos Prazeres Rodrigues D, Tiba-Casas MR, Falcão JP.

J Appl Microbiol. 2020 Nov 4. doi: 10.1111/jam.14924.

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[The direct effect of pneumococcal conjugate vaccines on invasive pneumococcal disease in children in the Latin American and Caribbean region \(SIREVA 2006-17\): a multicentre, retrospective observational study.](#)

Agudelo CI, Castañeda-Orjuela C, Brandileone MCC, Echániz-Aviles G, Almeida SCG, Carnalla-Barajas MN, Rgueira M, Fossati S, Alarcón P, Araya P, Duarte C, Sánchez J, Novas M, Toraño-Peraza G, Rodríguez-Ortega M, Chamorro-Cortesi G, Kawabata A, García-Gabarrot G, Camou T, Spadola E, Payares D, Andrade AL, Di Fabio JL, Castañeda E; SIREVA Working Group.

Lancet Infect Dis. 2020 Sep 25:S1473-3099(20)30489-8. doi: 10.1016/S1473-3099(20)30489-8.

PMID: 32986996

[Multicomponent meningococcal serogroup B vaccination elicits cross-reactive immunity in infants against genetically diverse serogroup C, W and Y invasive disease isolates.](#)

Biolchi A, De Angelis G, Moschioni M, Tomei S, Brunelli B, Giuliani M, Bambini S, Borrow R, Claus H, Gorla MCO, Hong E, Lemos APS, Lucidarme J, Taha MK, Vogel U, Comanducci M, Budroni S, Giuliani MM, Rappuoli R, Pizza M, Boucher P.

Vaccine. 2020 Oct 6:S0264-410X(20)31220-2. doi:

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PMID: 33036804

[Genomic and phenotypic characterization of antimicrobial resistance in carbapenem-resistant *Acinetobacter baumannii* hyperendemic clones CC1, CC15, CC79, and CC25.](#)

Camargo CH, Cunha MPV, de Barcellos TAF, Bueno MS, Bertani AMJ, Dos Santos CA, Nagamori FO, Takagi EH, Chimara E, de Carvalho E, Tiba-Casas MR.

Int J Antimicrob Agents. 2020 Oct 9:106195. doi:

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PMID: 33045346

[Multidrug Resistance and Virulence Profiles of *Salmonella* Isolated from Swine Lymph Nodes.](#)

de Azevedo EC, Martins BTF, Tiba Casas MR, Possebon FS, Araújo Junior JP, Nero LA, Yamatogi RS.

Microb Drug Resist. 2020 Aug 28. doi: 10.1089/mdr.2020.0120.

PMID: 32865485

PUBLICAÇÕES DE 2020
CENTRO DE BACTERIOLOGIA – Instituto Adolfo Lutz

[Incidence and characteristics of methicillin-resistant coagulase-negative *Staphylococcus* in peritoneal dialysis-associated peritonitis in a single center using molecular methods.](#)

Camargo CH, de Souza da Cunha MLR, Caramori JCT, Mondelli AL, Montelli AC, Barretti P.

Int Urol Nephrol. 2020 Aug 17. doi: 10.1007/s11255-020-02605-9.

PMID: 32804344

[Transmission and prevalence of drug-resistant tuberculosis in a Brazilian setting under a directly observed therapy short-course strategy.](#)

Latriilha FO, Simonsen V, Pinhata JMW, Brandão AP, Galesi VMN, Waldman EA, Ferrazoli L.

Rev Soc Bras Med Trop. 2020 Jun 22;53:e20190404. doi: 10.1590/0037-8682-0404-2019.

PMID: 32578701

[Detection of pandrug-resistant ST15 *Acinetobacter baumannii* causing bloodstream infection in an HSCT patient in Brazil.](#)

Bueno MS, Freire MP, Cunha MPV, de Barcellos TAF, Bertani AMJ, Dos Santos CA, Chimara E, Nagamori FO, Takagi EH, Costa SF, Ito RKL, Abdala E, de Carvalho E, Tiba-Casas MR, Camargo CH.

J Antimicrob Chemother. 2020 Jun 16;dkaa218. doi: 10.1093/jac/dkaa218.

PMID: 32544227

[Genotypic and phenotypic characterization of enteroaggregative *Escherichia coli* \(EAEC\) isolates from diarrheic children: An unresolved diagnostic paradigm exists.](#)

Helalat H, Rezatofighi SE, Roayaei Ardakani M, Dos Santos LF, Askari Badouei M.

Iran J Basic Med Sci. 2020 Jul;23(7):915-921. doi:

10.22038/ijbms.2020.42119.9959.

PMID: 32774814

[Comparative genomic analysis provides insight into the phylogeny and virulence of atypical enteropathogenic *Escherichia coli* strains from Brazil.](#)

Hernandes RT, Hazen TH, Dos Santos LF, Richter TKS, Michalski JM, Rasko DA.

PLoS Negl Trop Dis. 2020 Jun 1;14(6):e0008373. doi:

10.1371/journal.pntd.0008373. eCollection 2020 Jun.

PMID: 32479541

[Prevalence, antibiotic resistance, PFGE and MLST characterization of *Salmonella* in swine mesenteric lymph nodes.](#)

Possebon FS, Tiba Casas MR, Nero LA, Yamatogi RS, Araújo JP Jr, Pinto JPAN.

Prev Vet Med. 2020 Jun;179:105024. doi: 10.1016/j.prevetmed.2020.105024.

Epub 2020 May 5.

PMID: 32417637

[Frequency of first and second-line drug resistance-associated mutations among resistant *Mycobacterium tuberculosis* clinical isolates from São Paulo, Brazil.](#)

Matsui T, Pinhata JMW, Rabello MCDS, Brandão AP, Ferrazoli L, Leão SC, Viana-Niero C, Oliveira RS.

Mem Inst Oswaldo Cruz. 2020;115:e200055. doi: 10.1590/0074-02760200055.

Epub 2020 May 8.

PMID: 32401997 .

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CENTRO DE BACTERIOLOGIA – Instituto Adolfo Lutz

[Analysis of the Virulence Profile and Phenotypic Features of Typical and Atypical Enteroaggregative *Escherichia coli* \(EAEC\) Isolated From Diarrheal Patients in Brazil.](#)

Dias RCB, Tanabe RHS, Vieira MA, Cergole-Novella MC, Dos Santos LF, Gomes TAT, Elias WP, Hernandez RT.

Front Cell Infect Microbiol. 2020 Apr 22;10:144. doi: 10.3389/fcimb.2020.00144. eCollection 2020.

PMID: 32391284

[Visualizing variation within Global Pneumococcal Sequence Clusters \(GPSCs\) and country population snapshots to contextualize pneumococcal isolates.](#)

Gladstone RA, Lo SW, Goater R, Yeats C, Taylor B, Hadfield J, Lees JA, Croucher NJ, van Tonder AJ, Bentley LJ, Quah FX, Blaschke AJ, Pershing NL, Byington CL, Balaji V, Hryniewicz W, Sigauque B, Ravikumar KL, Almeida SCG, Ochoa TJ, Ho PL, du Plessis M, Ndlangisa KM, Cornick JE, Kwambana-Adams B, Benisty R, Nzenze SA, Madhi SA, Hawkins PA, Pollard AJ, Everett DB, Antonio M, Dagan R, Klugman KP, von Gottberg A, Metcalf BJ, Li Y, Beall BW, McGee L, Breiman RF, Aanensen DM, Bentley SD, The Global Pneumococcal Sequencing Consortium.

Microb Genom. 2020 May;6(5). doi: 10.1099/mgen.0.000357. Epub 2020 Apr 29.

PMID: 32375991

[Partial Correlation Between Phenotypic and Genotypic Antimicrobial Resistance of *Salmonella enterica* Serovar Enteritidis Strains from Brazil.](#)

Campioni F, Gomes CN, Bergamini AMM, Rodrigues DP, Falcão JP.

Microb Drug Resist. 2020 Apr 20. doi: 10.1089/mdr.2019.0477.

PMID: 32311302

[Upper respiratory tract colonization with *Streptococcus pneumoniae* in adults.](#)

Arguedas A, Trzcinski K, O'Brien KL, Ferreira DM, Wyllie AL, Weinberger D, Danon L, Pelton SI, Azzari C, Hammitt LL, Sá-Leão R, Brandileone MC, Saha S, Suaya J, Isturiz R, Jodar L, Gessner BD.

Expert Rev Vaccines. 2020 Apr;19(4):353-366. doi:

10.1080/14760584.2020.1750378. Epub 2020 Apr 17.

PMID: 32237926

[High occurrence of \$\beta\$ -lactamase-producing *Salmonella* Heidelberg from poultry origin.](#)

Souza AIS, Saraiva MMS, Casas MRT, Oliveira GM, Cardozo MV, Benevides VP, Barbosa FO, Freitas Neto OC, Almeida AM, Berchieri A Junior.

PLoS One. 2020 Mar 31;15(3):e0230676. doi: 10.1371/journal.pone.0230676.

eCollection 2020.

PMID: 32231395 .

[Molecular characterization of Latin American invasive *Streptococcus pneumoniae* serotype 19A isolates.](#)

Moreno J, Duarte C, Cassiolato AP, Chacón GC, Alarcon P, Sánchez J, Martín YNS, Valenzuela C, Castillo W, Gabarrot GG; SIREVA II Group.

Vaccine. 2020 Apr 23;38(19):3524-3530. doi: 10.1016/j.vaccine.2020.03.030.

Epub 2020 Mar 20.

PMID: 32204942

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[Genomic and Clinical Characterization of IMP-1-Producing Multidrug-Resistant *Acinetobacter bereziniae* Isolates from Bloodstream Infections in a Brazilian Tertiary Hospital.](#)

Tavares LCB, Cunha MPV, Vasconcellos FM, Bertani AMJ, Barcellos TAF, Bueno MS, Santos CA, Sant'Ana DA, Ferreira AM, Mondelli AL, Montelli AC, Sadatsune T, Sacchi CT, Gonçalves CR, Tiba-Casas MR, Camargo CH.

Microb Drug Resist. 2020 Mar 9. doi: 10.1089/mdr.2019.0210. Online ahead of print.

PMID: 32155381

[Detection of multidrug- and colistin-resistant *Salmonella Choleraesuis* causing bloodstream infection.](#)

Dos Santos CA, Cunha MPV, Bertani AMJ, de Almeida EA, Gonçalves CR, Sacchi CT, de Paiva JB, Camargo CH, Tiba-Casas MR.

J Antimicrob Chemother. 2020 Jul 1;75(7):2009-2010. doi: 10.1093/jac/dkaa076.

PMID: 32155258

[Environmental persistence and virulence of *Salmonella* spp. Isolated from a poultry slaughterhouse.](#)

Dantas STA, Camargo CH, Tiba-Casas MR, Vivian RC, Pinto JPAN, Pantoja JCF, Hernandez RT, Fernandes Júnior A, Rall VLM.

Food Res Int. 2020 Mar;129:108835. doi: 10.1016/j.foodres.2019.108835. Epub 2019 Nov 29.

PMID: 32036904

[Virulence traits and expression of *bstA*, *fliC* and *sopE2* in *Salmonella* Dublin strains isolated from humans and animals in Brazil.](#)

Vilela FP, Gomes CN, Paziani MH, Braz VS, Rodrigues DDP, Costa RG, Tiba-Casas MR, Kress MRVZ, Falcão JP, Campioni F.

Infect Genet Evol. 2020 Jun;80:104193. doi: 10.1016/j.meegid.2020.104193. Epub 2020 Jan 10.

PMID: 31931258

[Virulence Profiling and Molecular Typing of Shiga Toxin-Producing *E. coli* \(STEC\) from Human Sources in Brazil.](#)

Cavalcanti AMF, Hernandez RT, Takagi EH, Guth BEC, Ori ÉL, Pinheiro SRS, Andrade TS, Oliveira SL, Cergole-Novella MC, Francisco GR, Santos LFD.

Microorganisms. 2020 Jan 25;8(2):171. doi: 10.3390/microorganisms8020171.

PMID: 31991731

[High similarity and high frequency of virulence genes among *Salmonella* Dublin strains isolated over a 33-year period in Brazil.](#)

Vilela FP, Dos Prazeres Rodrigues D, Costa RG, Casas MRT, Falcão JP, Campioni F.

Braz J Microbiol. 2020 Jun;51(2):497-509. doi: 10.1007/s42770-019-00156-5.

Epub 2019 Nov 8.

PMID: 31701384

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CENTRO DE BACTERIOLOGIA – Instituto Adolfo Lutz

[A mosaic tetracycline resistance gene tet\(S/M\) detected in an MDR pneumococcal CC230 lineage that underwent capsular switching in South Africa.](#)

Lo SW, Gladstone RA, van Tonder AJ, Du Plessis M, Cornick JE, Hawkins PA, Madhi SA, Nzenze SA, Kandasamy R, Ravikumar KL, Elmdaghri N, Kwambana-Adams B, Almeida SCG, Skoczynska A, Egorova E, Titov L, Saha SK, Paragi M, Everett DB, Antonio M, Klugman KP, Li Y, Metcalf BJ, Beall B, McGee L, Breiman RF, Bentley SD, von Gottberg A; Global Pneumococcal Sequencing Consortium .
J Antimicrob Chemother. 2020 Mar 1;75(3):512-520. doi: 10.1093/jac/dkz477.
PMID: 31789384

[Two Cases of Newly Characterized *Neisseria* Species, Brazil.](#)

Mustapha MM, Lemos APS, Griffith MP, Evans DR, Marx R, Coltro ESF, Siebra CA, Timm L, Ribeiro H, Monteiro A, Pasculle AW, Marsh JW, Van Tyne D, Harrison LH, Sacchi CT.
Emerg Infect Dis. 2020 Feb;26(2):366-369. doi: 10.3201/eid2602.190191.
PMID: 31961306

[Frequency and expression of st313-td gene and virulence of *Salmonella* Dublin strains isolated from humans and animals in Brazil.](#)

Vilela FP, Gomes CN, Paziani MH, Braz VS, Dos Prazeres Rodrigues D, Costa RG, Casas MRT, von Zeska Kress MR, Falcão JP, Campioni F.
Infect Genet Evol. 2020 Jan 10:104193. doi: 10.1016/j.meegid.2020.104193.
PMID: 31931258