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## Antimicrobial resistance of staphylococci isolated from bovine mastitis in Argentina

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Bovine mastitis causes important economic losses in the dairy industry. Staphylococcus aureus and coagulase-negative staphylococci (CNS) are commonly isolated from bovine mastitis.  $\beta$ -lactams and macrolides-lincosamides (ML) antibiotics are frequently used in intramammary therapy. CNS can be considered reservoir of antimicrobial resistance genes. The gene blaZ confer resistance to some  $\beta$ -lactam antimicrobials whereas the mecA and mecC genes confer resistance to all  $\beta$ -lactams. The genes ermA, ermB, ermC, mefA, msrA, mphC and lnuA confer resistance to ML antimicrobials. S. aureus resistance to  $\beta$ -lactams in Argentina is 23.1%. Among 80 S. aureus isolates, 32 (40%) were positive to blaZ gene and 15 (18.75%) were carriers of ML resistant genes: ermB and mefA (n=4), ermB (n=2) ermB (n=2), ermB, ermC and ermA (n=1), ermA, ermB, ermC and ermA (n=1), ermA, ermB, ermC and ermA (n=1), ermA, ermB, ermC and ermA (n=1). Among 90 CNS isolates, 12 (13.3%), 4 (4.4%), and 1 (1.1%) were positive for blaZ, ermA and ermA (n=1). Both ermA and ermA (n=2), ermB, ermC and ermA (n=1), ermB and ermC (n=2), ermB, ermC and ermA (n=1), ermB and ermA (n=1). The recently described ermA ermB and ermA (n=2), ermB, ermC and ermA (n=1), ermB and ermA (n=1). The recently described ermA ermB and ermA (n=2), ermB, ermC and ermA (n=1), ermB, ermA and ermA (n=1). The recently described ermA and ermA (n=2), ermB, ermA and ermA (n=1), ermB and ermA (n=2), ermB, ermA and ermA (n=1), ermB and ermA (n=2), ermB, ermA and ermA (n=1), ermB and ermA (n=2), ermB, ermA and ermA (n=1), ermB and ermA (n=2), ermB, ermA and ermA (n=1), ermB and ermA (n=2), ermB, ermA and ermA (n=1), ermB and ermA (n=2), ermB,

## **Biography**

Srednik Mariela Elizabeth is currently pursuing her PhD at the University of Buenos Aires (UBA). She is a Veterinarian and has completed her Specialization in Quality and Food Control and her Master's in Biotechnology at UBA. She is also an Assistant Teacher in Microbiology at the Faculty of Veterinary Sciences at UBA. She did several Internships at Université de Montreal, Canada. She has published 3 papers, one in a national journal and two in reputed international journals. She had submitted 2 more manuscripts in collaboration with the Université de Montréal.

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