

**Non-aureus staphylococci and mammaliicocci isolated from bovine milk in Italian dairy farms: a retrospective investigation.**

Maria Filippa Addis<sup>1,2\*</sup>, Clara Locatelli<sup>1</sup>, Martina Penati<sup>1</sup>, Sara Fusar Poli<sup>1</sup>, Valentina Monistero<sup>1</sup>, Lucia Zingale<sup>1</sup>, Nicola Rota<sup>3</sup>, Claudia Gusmara<sup>1</sup>, Renata Piccinini<sup>1</sup>, Paolo Moroni<sup>1,2,4</sup>, Valerio Bronzo<sup>1,2</sup>

<sup>1</sup>Department of Veterinary Medicine and Animal Science - DIVAS, University of Milan, Lodi, Italy

<sup>2</sup>Laboratorio di Malattie Infettive degli Animali - MiLab, University of Milan, Lodi, Italy

<sup>3</sup>Agribovis s.r.l., Meda, Italy

<sup>4</sup>Quality Milk Production Services (QMPS), Cornell University, Ithaca, USA

**Supplementary Table** Results of the application of a multinomial logistic regression model, using as a reference category the subclinical outcome, estimating the parameters with Wald statistics, for assessing the relationships with the NASM species.

| Mast_cod <sup>a</sup> |                                  | b      | Std. Err. | Wald   | Ggl | P value      | Exp(b) | 95% conf. interval for Exp(b) |             |
|-----------------------|----------------------------------|--------|-----------|--------|-----|--------------|--------|-------------------------------|-------------|
|                       |                                  |        |           |        |     |              |        | Lower limit                   | Upper limit |
| CM                    | Intercept                        | 0.226  | 0.155     | 2.127  | 1   | 0.145        |        |                               |             |
|                       | [NASM = <i>S. arlettae</i> ]     | -0.072 | 0.357     | 0.040  | 1   | 0.841        | 0.931  | 0.463                         | 1.872       |
|                       | [NASM = <i>S. capitis</i> ]      | -1.835 | 1.106     | 2.752  | 1   | 0.097        | 0.160  | 0.018                         | 1.395       |
|                       | [NASM = <i>S. chromogenes</i> ]  | -0.651 | 0.178     | 13.439 | 1   | <b>0.000</b> | 0.522  | 0.368                         | 0.739       |
|                       | [NASM = <i>S. cohnii</i> ]       | -0.919 | 1.234     | 0.554  | 1   | 0.457        | 0.399  | 0.035                         | 4.484       |
|                       | [NASM = <i>S. epidermidis</i> ]  | -1.531 | 0.260     | 34.587 | 1   | <b>0.000</b> | 0.216  | 0.130                         | 0.360       |
|                       | [NASM = <i>S. equorum</i> ]      | 0.011  | 0.379     | 0.001  | 1   | 0.978        | 1.011  | 0.481                         | 2.122       |
|                       | [NASM = <i>S. gallinarum</i> ]   | 0.180  | 0.926     | 0.038  | 1   | 0.846        | 1.197  | 0.195                         | 7.348       |
|                       | [NASM = <i>S. haemolyticus</i> ] | -0.797 | 0.186     | 18.385 | 1   | <b>0.000</b> | 0.451  | 0.313                         | 0.649       |
|                       | [NASM = <i>S. hyicus</i> ]       | -1.237 | 0.604     | 4.196  | 1   | <b>0.041</b> | 0.290  | 0.089                         | 0.948       |
|                       | [NASM = <i>S. microti</i> ]      | -2.577 | 0.756     | 11.620 | 1   | <b>0.001</b> | 0.076  | 0.017                         | 0.334       |
|                       | [NASM = <i>M. sciuri</i> ]       | -0.026 | 0.204     | 0.016  | 1   | 0.898        | 0.974  | 0.654                         | 1.452       |
|                       | [NASM = <i>S. simulans</i> ]     | -0.551 | 0.396     | 1.942  | 1   | 0.163        | 0.576  | 0.265                         | 1.251       |
|                       | [NASM = <i>S. warneri</i> ]      | 0.467  | 0.880     | 0.282  | 1   | 0.595        | 1.596  | 0.285                         | 8.950       |
|                       | [NASM = <i>S. xylosus</i> ]      | 0.072  | 0.357     | 0.04   | 1   | 0.841        | 1.074  | 0.534                         | 2.161       |