Variation in blood serum proteins and association with somatic cell count in dairy cattle from multi-breed herds

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**Supplementary Table S5** *Descriptive statistics of milk yield and composition by breed of cows on 41 mixed breed farms in north-eastern Italy1*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | HF | BS | | JER | SI | REN | AG |
| Number of cows | 471 | 663 | | 40 | 158 | 103 | 73 |
| Milk yield, kg/d2 | 28.4±9.8 | 25.0±7.7 | | 21.1±4.8 | 20.2±6.8 | 16.9±5.7 | 13.1±4.8 |
| Milk composition2 | | |  | |  |  |  |
| Fat, % | 4.02±1.00 | 4.12±0.84 | | 6.04±0.65 | 4.17±1.12 | 3.28±0.64 | 3.57±0.76 |
| protein, % | 3.51±0.56 | 3.80±0.44 | | 4.09±0.74 | 3.49±0.43 | 3.26±0.36 | 3.49±0.38 |
| Casein, % | 2.75±0.42 | 2.98±0.33 | | 3.23±0.54 | 2.74±0.32 | 2.57±0.28 | 2.75±0.28 |
| Casein/protein ratio | 0.79±0.01 | 0.78±0.01 | | 0.79±0.02 | 0.79±0.01 | 0.79±0.01 | 0.79±0.02 |
| Lactose, % | 4.83±0.26 | 4.84±0.22 | | 4.77±0.19 | 4.83±0.21 | 4.91±0.28 | 4.89±0.22 |
| Urea, mg/100g | 21.5±7.9 | 25.8±9.8 | | 37.5±11.0 | 27.7±10.9 | 25.2±6.8 | 30.5±9.7 |
| pH | 6.51±0.09 | 6.51±0.10 | | 6.48±0.09 | 6.49±0.13 | 6.53±0.09 | 6.52±0.10 |
| SCS3, units | 3.05±1.94 | 2.89±1.80 | | 2.70±1.73 | 2.37±1.78 | 2.61±1.75 | 2.60±2.12 |
| 1Holstein Friesian (HF), Brown Swiss (BS), Jersey (JER), Simmental (SI), Rendena (REN) and Alpine Grey (AG).  2Mean±SD.  3SCS = log2 (SCC/100000) + 3 | | | | | | | |