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Discriminant Analysis of Colour Measurements Reveals Allele Dosage Effect of *ASIP/MC1R* in Bay Horses

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Supplementary Online Material (SOM)

Supplementary Table S1. Pearson correlation coefficients and their level of significance for the measured L*, a*, and b* values at the body regions neck (prefix H), shoulder (prefix S), armpit (prefix A), belly (prefix B), and croup (prefix K)

	HL	Ha	Hb	SL	Sa	Sb	AL	Aa	Ab	BL	Ba	Bb	KL	Ka	Kb
HL	1	0.8798 < 0.0001	0.9578 < 0.0001	0.9208 < 0.0001	0.8018 < 0.0001	0.9138 < 0.0001	0.8025 < 0.0001	0.6766 < 0.0001	0.8134 < 0.0001	0.8922 < 0.0001	0.8077 < 0.0001	0.8954 < 0.0001	0.9212 < 0.0001	0.8756 < 0.0001	0.9315 < 0.0001
Ha	0.8798 < 0.0001	1	0.9595 < 0.0001	0.8826 < 0.0001	0.9527 < 0.0001	0.9645 < 0.0001	0.8662 < 0.0001	0.7598 < 0.0001	0.8551 < 0.0001	0.9091 < 0.0001	0.9213 < 0.0001	0.9206 < 0.0001	0.8486 < 0.0001	0.9501 < 0.0001	0.9229 < 0.0001
Hb	0.9578 < 0.0001	0.9595 < 0.0001	1	0.9131 < 0.0001	0.8761 < 0.0001	0.9521 < 0.0001	0.856 < 0.0001	0.7277 < 0.0001	0.8528 < 0.0001	0.9137 < 0.0001	0.8735 < 0.0001	0.9252 < 0.0001	0.8992 < 0.0001	0.9287 < 0.0001	0.948 < 0.0001
SL	0.9208 < 0.0001	0.8826 < 0.0001	0.9131 < 0.0001	1	0.8374 < 0.0001	0.943 < 0.0001	0.8186 < 0.0001	0.6666 < 0.0001	0.7913 < 0.0001	0.9048 < 0.0001	0.8061 < 0.0001	0.881 < 0.0001	0.923 < 0.0001	0.8739 < 0.0001	0.9254 < 0.0001
Sa	0.8018 < 0.0001	0.9527 < 0.0001	0.8761 < 0.0001	0.8374 < 0.0001	1	0.9584 < 0.0001	0.8463 < 0.0001	0.7539 < 0.0001	0.8313 < 0.0001	0.8727 < 0.0001	0.9436 < 0.0001	0.8943 < 0.0001	0.7876 < 0.0001	0.9234 < 0.0001	0.877 < 0.0001
Sb	0.9138 < 0.0001	0.9645 < 0.0001	0.9521 < 0.0001	0.943 < 0.0001	0.9584 < 0.0001	1	0.8807 < 0.0001	0.7309 < 0.0001	0.8491 < 0.0001	0.9387 < 0.0001	0.9252 < 0.0001	0.9431 < 0.0001	0.8949 < 0.0001	0.9434 < 0.0001	0.9479 < 0.0001
AL	0.8025 < 0.0001	0.8662 < 0.0001	0.856 < 0.0001	0.8186 < 0.0001	0.8463 < 0.0001	0.8807 < 0.0001	1	0.7157 < 0.0001	0.8856 < 0.0001	0.8932 < 0.0001	0.888 < 0.0001	0.8924 < 0.0001	0.7371 < 0.0001	0.7799 < 0.0001	0.7819 < 0.0001
Aa	0.6766 < 0.0001	0.7598 < 0.0001	0.7277 < 0.0001	0.6666 < 0.0001	0.7539 < 0.0001	0.7309 < 0.0001	0.7157 < 0.0001	1	0.9293 < 0.0001	0.7017 < 0.0001	0.8192 < 0.0001	0.7788 < 0.0001	0.5379 < 0.0001	0.7269 < 0.0001	0.6955 < 0.0001
Ab	0.8134 < 0.0001	0.8551 < 0.0001	0.8528 < 0.0001	0.7913 < 0.0001	0.8313 < 0.0001	0.8491 < 0.0001	0.8856 < 0.0001	0.9293 < 0.0001	1	0.8353 < 0.0001	0.912 < 0.0001	0.9025 < 0.0001	0.7368 < 0.0001	0.8013 < 0.0001	0.7929 < 0.0001
BL	0.8922 < 0.0001	0.9091 < 0.0001	0.9137 < 0.0001	0.9048 < 0.0001	0.8727 < 0.0001	0.9387 < 0.0001	0.8932 < 0.0001	0.7017 < 0.0001	0.8353 < 0.0001	1	0.9082 < 0.0001	0.9676 < 0.0001	0.845 < 0.0001	0.8733 < 0.0001	0.8893 < 0.0001
Ba	0.8077 < 0.0001	0.9213 < 0.0001	0.8735 < 0.0001	0.8061 < 0.0001	0.9436 < 0.0001	0.9252 < 0.0001	0.888 < 0.0001	0.8192 < 0.0001	0.912 < 0.0001	0.9082 < 0.0001	1	0.9618 < 0.0001	0.7564 < 0.0001	0.8824 < 0.0001	0.847 < 0.0001
Bb	0.8954 < 0.0001	0.9206 < 0.0001	0.9252 < 0.0001	0.881 < 0.0001	0.8943 < 0.0001	0.9431 < 0.0001	0.8924 < 0.0001	0.7788 < 0.0001	0.9025 < 0.0001	0.9676 < 0.0001	0.9618 < 0.0001	1	0.8327 < 0.0001	0.8839 < 0.0001	0.8934 < 0.0001
KL	0.9212 < 0.0001	0.8486 < 0.0001	0.8992 < 0.0001	0.923 < 0.0001	0.7876 < 0.0001	0.8949 < 0.0001	0.7371 < 0.0001	0.5379 < 0.0001	0.7368 < 0.0001	0.845 < 0.0001	0.7564 < 0.0001	0.8327 < 0.0001	1	0.8894 < 0.0001	0.9531 < 0.0001
Ka	0.8756 < 0.0001	0.9501 < 0.0001	0.9287 < 0.0001	0.8739 < 0.0001	0.9234 < 0.0001	0.9434 < 0.0001	0.7799 < 0.0001	0.7269 < 0.0001	0.8013 < 0.0001	0.8733 < 0.0001	0.8824 < 0.0001	0.8839 < 0.0001	0.8894 < 0.0001	1	0.9699 < 0.0001
Kb	0.9315 < 0.0001	0.9229 < 0.0001	0.948 < 0.0001	0.9254 < 0.0001	0.877 < 0.0001	0.9479 < 0.0001	0.7819 < 0.0001	0.6955 < 0.0001	0.7929 < 0.0001	0.8893 < 0.0001	0.847 < 0.0001	0.8934 < 0.0001	0.9531 < 0.0001	0.9699 < 0.0001	1

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