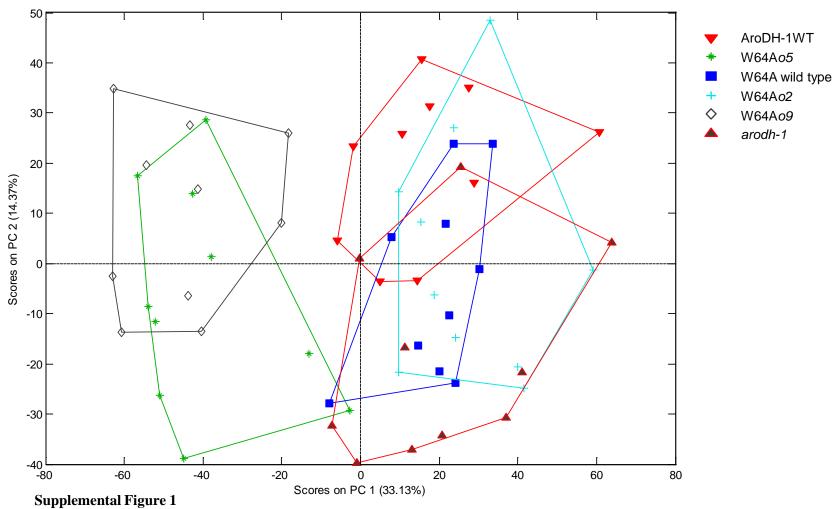
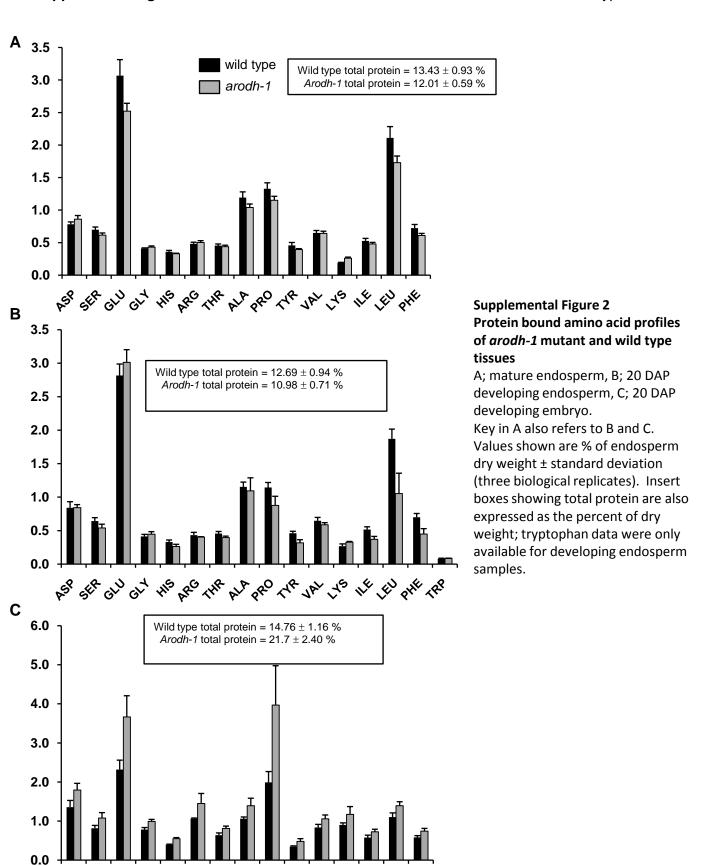
Identification and characterization of the maize arogenate dehydrogenase gene family

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Principle Component Analysis (PCA) scores plot of leaf tissue metabolite profiles obtained from W64A *arodh-1*, W64A *AroDH-1* wild-type isoline, W64A*o2*, W64A*o5*, W64*o9* and W64A wild type.

PCA was performed on the m/z value x retention time matrix of metabolite fingerprinting data following Z-scoring using the Eigenvector PLS Toolbox software. Group boundaries for samples of each genotype are shown with solid lines. The W64Ao5 and W64Ao9 sample groups form a cluster that is distinct from W64Aarodh-1, which overlaps with sample groups of W64A wild type and W64Ao2.



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	Chrm Seed Endospern Chalazal endospern Far neristem Chrm Chrm															· om	
	<u>Chrm</u>	sees	Enge	Ale	Stall	Chia	Entr	6 _{6,}	Fai	Silk	195°	801.	Ant	SAI	\ec	40°	ste
AroDH-1	5	233	129	74	28	240	23	178	133	89	0	0	128	175	274	534	286
AroDH-2	5	-	-	-	-	-	-	-	30	30	-	-	-	-	33	-	22
AroDH-3	6	49	27	82	-	96	-	72	-	24	112	-	187	11	448	459	336
AroDH-4	9	20	78	-	-	75	-	-	13	-	-	-	-	-	79	113	-