

宁夏枸杞果实响应干旱胁迫的代谢组学分析

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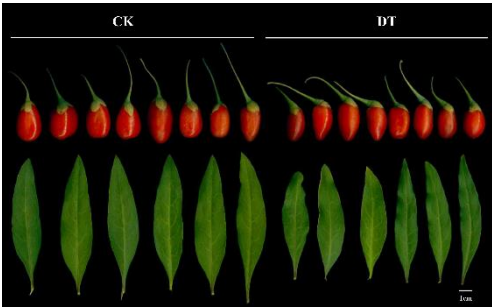
Metabolomic Analysis of *Lycium barbarum* Fruit in Response to Drought Stress

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‘宁杞 1 号’果实和叶片在对照组（CK）与干旱处理组（DT）之间的表型比较。DT 组叶片明显缩小并发生一定程度的卷曲，而果实大小和形态也发生轻微变化，表明干旱胁迫对植株营养生长和果实发育产生了影响。标尺为 1 cm。
Phenotypic comparison of ‘Ningqi 1’ fruits and leaves between the control (CK) and drought treatment (DT) groups. Leaves in the DT group exhibited pronounced size reduction and partial curling, whereas fruit size and morphology displayed slight alterations, indicating that drought stress affected both vegetative growth and fruit development. Scale bar = 1 cm.

附图 1 干旱胁迫下 ‘宁杞 1 号’果实和叶片表型

Supplementary Figure1 Phenotypic characteristics of fruits and leaves of ‘Ningqi 1’ under drought stress

附表 1 干旱胁迫下‘宁杞 1 号’果实和叶片表型

Table S1. Fruit and leaf phenotypes of ‘Ningqi 1’ under drought stress

指标	CK 组	DT 组	显著性
Parameter	CK group	DT group	Significance
果实纵径	16.81 ± 1.39	16.72 ± 1.54	0.90012500
果实横径	10.74 ± 1.35	8.84 ± 0.60	0.00065025

果实纵横比	1.58 ± 0.22	1.90 ± 0.21	0.00387527
果实圆度	0.65 ± 0.04	0.54 ± 0.05	0.01569742
叶片长度/mm	56.07 ± 8.43	45.94 ± 6.06	0.00000224
叶片宽度/mm	12.54 ± 1.85	10.01 ± 1.64	0.00000084
叶面积/mm²	442.11 ± 114.46	286.95 ± 68.15	0.00000005
叶片周长/mm	128.87 ± 22.95	107.26 ± 13.22	0.00001208
叶片长宽比	4.51 ± 0.60	4.69 ± 0.83	0.33929519
叶片厚度/mm	0.29 ± 0.05	0.31 ± 0.07	0.16710567
果实 RGB (R)	183.5 ± 9.08	192.6 ± 9.74	0.04447716
果实 RGB (G)	63.5 ± 6.60	64.7 ± 5.91	0.67353672
果实 RGB (B)	27.8 ± 3.94	25.4 ± 5.83	0.29521911
叶片 RGB (R)	44.87 ± 8.65	52.60 ± 7.64	0.00053069
叶片 RGB (G)	95.67 ± 5.31	98.63 ± 5.01	0.02993236
叶片 RGB (B)	14.87± 6.70	13.23 ± 6.62	0.34615886