**Table S4 The 16 main metabolite content of 27 *R. rugosa***

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| Compounds  | Class  | ‘Guo’ | ‘Hanxiang’ | ‘Baizizhi’ | 'Pekingwhite' | ‘FenZiZhi’ | ‘Tancity’ | ‘Mici’ | ‘Jingyou2’ | 'Pingyin11' | 'Pingyin12' | 'FanHua' | R.sertate×R.rugosa | ‘Jingyou1’ | ‘Purple Branch’ |
| 1 | terpene | 0.21  | 0.08  | 0.19  | 0.13  | 0.04  | 0.05  | 0.13  | 0.14  | 0.20  | 0.20  | 0.08  | 0.06  | 0.14  | 0.22  |
| 2 | terpene | 0.15  | 0.02  | 0.02  | 0.02  | 0.02  | 0.02  | 0.02  | 0.02  | 0.03  | 0.02  | 0.05  | 0.03  | 0.02  | 0.03  |
| 3 | terpene | 3.43  | 3.21  | 1.09  | 0.34  | 1.04  | 2.46  | 1.90  | 1.99  | 1.32  | 2.31  | 1.59  | 1.31  | 2.05  | 2.01  |
| 4 | ester | 0.11  | 0.03  | 0.02  | 0.01  | 0.01  | 0.02  | 0.03  | 0.03  | 0.03  | 0.04  | 0.04  | 0.02  | 0.03  | 0.07  |
| 5 | terpene | 2.33  | 1.22  | 1.22  | 1.20  | 1.21  | 1.21  | 1.21  | 1.23  | 1.26  | 1.19  | 1.41  | 1.26  | 1.21  | 1.23  |
| 6 | terpene | 0.69  | 0.37  | 0.20  | 0.23  | 0.15  | 0.76  | 0.61  | 0.45  | 0.88  | 0.57  | 0.25  | 0.44  | 0.56  | 0.01  |
| 7 | ester | 0.28  | 0.20  | 0.17  | 0.02  | 0.01  | 0.03  | 0.19  | 0.21  | 0.12  | 0.30  | 0.04  | 0.03  | 0.21  | 0.16  |
| 8 | ester | 0.00  | 0.03  | 0.04  | 0.09  | 0.02  | 0.02  | 0.06  | 0.07  | 0.01  | 0.14  | 0.07  | 0.00  | 0.05  | 0.03  |
| 9 | terpene | 0.12  | 0.10  | 0.03  | 0.02  | 0.02  | 0.06  | 0.09  | 0.07  | 0.11  | 0.07  | 0.07  | 0.07  | 0.07  | 0.02  |
| 10 | terpene | 5.43  | 12.39  | 4.92  | 0.98  | 1.73  | 3.72  | 7.17  | 8.18  | 2.31  | 6.27  | 1.29  | 1.66  | 7.67  | 3.40  |
| 11 | phenol | 0.69  | 0.29  | 0.78  | 0.19  | 0.63  | 0.27  | 0.33  | 0.15  | 0.62  | 0.82  | 0.44  | 0.25  | 0.27  | 0.45  |
| 12 | ester | 0.80  | 0.25  | 0.06  | 0.09  | 0.02  | 0.04  | 0.27  | 0.27  | 0.37  | 0.37  | 0.48  | 0.12  | 0.28  | 0.39  |
| 13 | terpene | 0.99  | 1.36  | 0.27  | 0.22  | 0.20  | 0.58  | 0.56  | 0.64  | 0.62  | 0.68  | 0.73  | 0.69  | 0.69  | 0.47  |
| 14 | phenol | 0.25  | 0.13  | 0.44  | 0.15  | 0.08  | 0.20  | 0.15  | 0.07  | 0.07  | 0.27  | 0.07  | 0.02  | 0.12  | 0.16  |
| 15 | alcohol | 0.00  | 14.35  | 23.17  | 10.38  | 13.83  | 12.29  | 9.60  | 12.61  | 3.34  | 15.83  | 14.84  | 0.85  | 12.63  | 17.74  |
| 16 | heterocyclic compound | 0.04  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  |

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| Compounds  | Class  | 'Hezeyang' | 'ZhongYuan' | ‘Yilanxiao’ | 'TianEHuang' | 'Pekingred' | 'Pingyin8' | 'XihuⅡ' | 'XihuⅢ' | ‘LiangYeHong’ | ‘DaGuo’ | 'GaoHong' | 'albo-plena' | ‘Lufthansa’ |
| 1 | terpene | 0.05  | 0.03  | 0.22  | 0.04  | 0.15  | 0.07  | 0.23  | 0.17  | 0.17  | 0.07  | 0.03  | 0.11  | 0.18  |
| 2 | terpene | 0.02  | 0.02  | 0.02  | 0.02  | 0.02  | 0.04  | 0.02  | 0.03  | 0.02  | 0.04  | 0.02  | 0.02  | 0.03  |
| 3 | terpene | 3.53  | 0.71  | 1.69  | 0.20  | 2.23  | 1.78  | 1.66  | 1.32  | 1.17  | 1.87  | 0.64  | 2.61  | 2.27  |
| 4 | ester | 0.11  | 0.01  | 0.03  | 0.00  | 0.01  | 0.02  | 0.07  | 0.03  | 0.02  | 0.02  | 0.01  | 0.02  | 0.07  |
| 5 | terpene | 1.22  | 1.19  | 1.23  | 1.19  | 1.17  | 1.34  | 1.22  | 1.25  | 1.19  | 1.34  | 1.20  | 1.20  | 1.28  |
| 6 | terpene | 0.01  | 0.10  | 0.34  | 0.00  | 0.50  | 0.22  | 0.21  | 0.31  | 0.33  | 0.22  | 0.14  | 0.31  | 0.36  |
| 7 | ester | 0.08  | 0.06  | 0.15  | 0.01  | 0.02  | 0.08  | 0.14  | 0.12  | 0.09  | 0.08  | 0.00  | 0.06  | 0.12  |
| 8 | ester | 0.07  | 0.32  | 0.06  | 0.09  | 0.02  | 0.05  | 0.12  | 0.01  | 0.13  | 0.08  | 0.03  | 0.03  | 0.01  |
| 9 | terpene | 0.03  | 0.01  | 0.05  | 0.00  | 0.05  | 0.07  | 0.04  | 0.05  | 0.05  | 0.06  | 0.05  | 0.05  | 0.06  |
| 10 | terpene | 1.47  | 1.46  | 5.53  | 0.00  | 1.84  | 4.35  | 2.10  | 2.63  | 4.65  | 4.05  | 1.21  | 3.61  | 1.60  |
| 11 | phenol | 0.05  | 0.05  | 0.25  | 0.60  | 0.40  | 0.52  | 0.66  | 0.49  | 0.14  | 0.66  | 0.16  | 0.43  | 0.35  |
| 12 | ester | 0.35  | 0.03  | 0.23  | 0.01  | 0.02  | 0.09  | 0.51  | 0.35  | 0.08  | 0.12  | 0.01  | 0.14  | 0.40  |
| 13 | terpene | 0.76  | 0.19  | 0.53  | 0.09  | 0.25  | 0.68  | 0.41  | 0.62  | 0.25  | 0.68  | 0.13  | 0.56  | 0.37  |
| 14 | phenol | 0.00  | 0.01  | 0.21  | 0.00  | 0.01  | 0.13  | 0.20  | 0.10  | 0.10  | 0.11  | 0.03  | 0.19  | 0.11  |
| 15 | alcohol | 5.73  | 10.12  | 12.73  | 24.31  | 3.61  | 17.13  | 16.22  | 3.28  | 16.27  | 15.78  | 10.29  | 16.21  | 4.42  |
| 16 | heterocyclic compound | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  | 0.03  |

注：单位为μg/g：1α-法尼烯；2橙花叔醇；3橙花醇；4金合欢醇；5玫瑰醚；6香茅醛；7香茅醇；8芳樟醇；9乙酸橙花酯；10乙酸香茅酯；11乙酸苯乙酯；12乙酸香叶酯；13丁香酚；14甲基丁香酚；15苯乙醇；16反式-芳樟醇氧化物