**Supplementary Table A.1**-Table represents similarity coefficient among different accessions of *Rosa* using Neighbor-joining and Nei-Li matching coefficient. Serial number 1-29 denotes 1. Lovers Meeting, 2. Careless Love, 3. Avalanche, 4. Black Lady, 5. Eiffel Tower, 6. Sunset Blend, 7. Gold Strike, 8. Candy Stripe, 9. Tajmahal, 10. Claude Monet, 11. Paradise, 12. Double Delight, 13. Kaiser Wilhelm I, 14. Yellow Patio, 15. Strawberry Romance, 16. All Gold, 17. Pleasure, 18. Love, 19. Tangerine Jewel, 20. William Shakespeare, 21. Henry Hundson, 22. Black Baccara, 23. Pope John Paul II, 24. Radnectar, 25. Baimir, 26. Apricot nectar, 27. First red, 28. Mundi, 29.Mozart.

