

Supplementary Figure S2: Compositional distances between sample means per tomato fruit tissue and stage of development based on the absolute contents in 39 metabolites and starch. Euclidian distance calculated using mean centred and unit-variance scaled data of five tissues and four stages of development. In bold, distances lower than 0.5 between sample means per tissue and stage mapped in figure 5.

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| Exocarp | | | | Pericarp | | | | Columella | | | | Locular tissue | | | | Seeds | | | | | |
|---------|--------------|--------------|--------|--------------|--------------|--------------|--------|--------------|--------------|--------------|--------------|----------------|--------------|--------|--------|--------------|--------------|--------------|--------------|--------|----------------|
| 12DPA | 20 DPA | 35 DPA | 45 DPA | 12 DPA | 20 DPA | 35 DPA | 45 DPA | 12 DPA | 20 DPA | 35 DPA | 45 DPA | 12 DPA | 20 DPA | 35 DPA | 45 DPA | 12 DPA | 20 DPA | 35 DPA | 45 DPA | | |
| | 0.251 | 0.394 | 0.598 | 0.498 | 0.654 | 0.585 | 0.888 | 0.567 | 0.652 | 0.647 | 0.861 | 0.617 | 0.516 | 0.781 | 0.808 | 0.476 | 0.459 | 0.518 | 0.659 | 12 DPA | Exocarp |
| | | 0.393 | 0.600 | 0.584 | 0.666 | 0.602 | 0.904 | 0.611 | 0.653 | 0.681 | 0.910 | 0.755 | 0.588 | 0.829 | 0.863 | 0.624 | 0.513 | 0.526 | 0.641 | 20 DPA | |
| | | | 0.520 | 0.679 | 0.758 | 0.514 | 0.897 | 0.637 | 0.685 | 0.597 | 0.880 | 0.790 | 0.613 | 0.787 | 0.837 | 0.594 | 0.500 | 0.328 | 0.536 | 35 DPA | |
| | | | | 0.809 | 0.905 | 0.718 | 0.680 | 0.710 | 0.772 | 0.707 | 0.707 | 0.870 | 0.709 | 0.838 | 0.809 | 0.662 | 0.583 | 0.483 | 0.535 | 45 DPA | |
| | | | | | 0.352 | 0.555 | 0.803 | 0.382 | 0.490 | 0.669 | 0.868 | 0.587 | 0.536 | 0.853 | 0.848 | 0.663 | 0.555 | 0.765 | 0.913 | 12 DPA | Pericarp |
| | | | | | | 0.483 | 0.806 | 0.425 | 0.420 | 0.671 | 0.900 | 0.671 | 0.547 | 0.863 | 0.880 | 0.789 | 0.664 | 0.870 | 1.000 | 20 DPA | |
| | | | | | | | 0.717 | 0.478 | 0.489 | 0.419 | 0.747 | 0.686 | 0.518 | 0.689 | 0.735 | 0.713 | 0.620 | 0.670 | 0.823 | 35 DPA | |
| | | | | | | | | 0.747 | 0.782 | 0.824 | 0.456 | 0.914 | 0.783 | 0.881 | 0.732 | 0.947 | 0.832 | 0.943 | 0.992 | 45 DPA | |
| | | | | | | | | | 0.224 | 0.452 | 0.758 | 0.564 | 0.402 | 0.696 | 0.748 | 0.592 | 0.475 | 0.639 | 0.798 | 12 DPA | Columella |
| | | | | | | | | | | 0.449 | 0.813 | 0.676 | 0.454 | 0.702 | 0.785 | 0.713 | 0.577 | 0.694 | 0.842 | 20 DPA | |
| | | | | | | | | | | | 0.722 | 0.663 | 0.489 | 0.540 | 0.725 | 0.651 | 0.573 | 0.587 | 0.756 | 35 DPA | |
| | | | | | | | | | | | | 0.861 | 0.761 | 0.778 | 0.567 | 0.866 | 0.807 | 0.890 | 0.946 | 45 DPA | |
| | | | | | | | | | | | | | 0.369 | 0.707 | 0.826 | 0.425 | 0.582 | 0.817 | 0.975 | 12 DPA | Locular tissue |
| | | | | | | | | | | | | | | 0.507 | 0.691 | 0.436 | 0.418 | 0.616 | 0.784 | 20 DPA | |
| | | | | | | | | | | | | | | | 0.606 | 0.746 | 0.708 | 0.733 | 0.880 | 35 DPA | |
| | | | | | | | | | | | | | | | | 0.833 | 0.784 | 0.838 | 0.928 | 45 DPA | |
| | | | | | | | | | | | | | | | | | 0.416 | 0.563 | 0.736 | 12 DPA | Seeds |
| | | | | | | | | | | | | | | | | | | 0.414 | 0.614 | 20 DPA | |
| | | | | | | | | | | | | | | | | | | | 0.424 | 35 DPA | |
| | | | | | | | | | | | | | | | | | | | | 45 DPA | |