Fatty Acids in Subcutaneous Adipose Tissue of Pregnant Women with and without Polycystic Ovary Syndrome Are Associated with Genes Related to Steroidogenesis: A Case-Control Study

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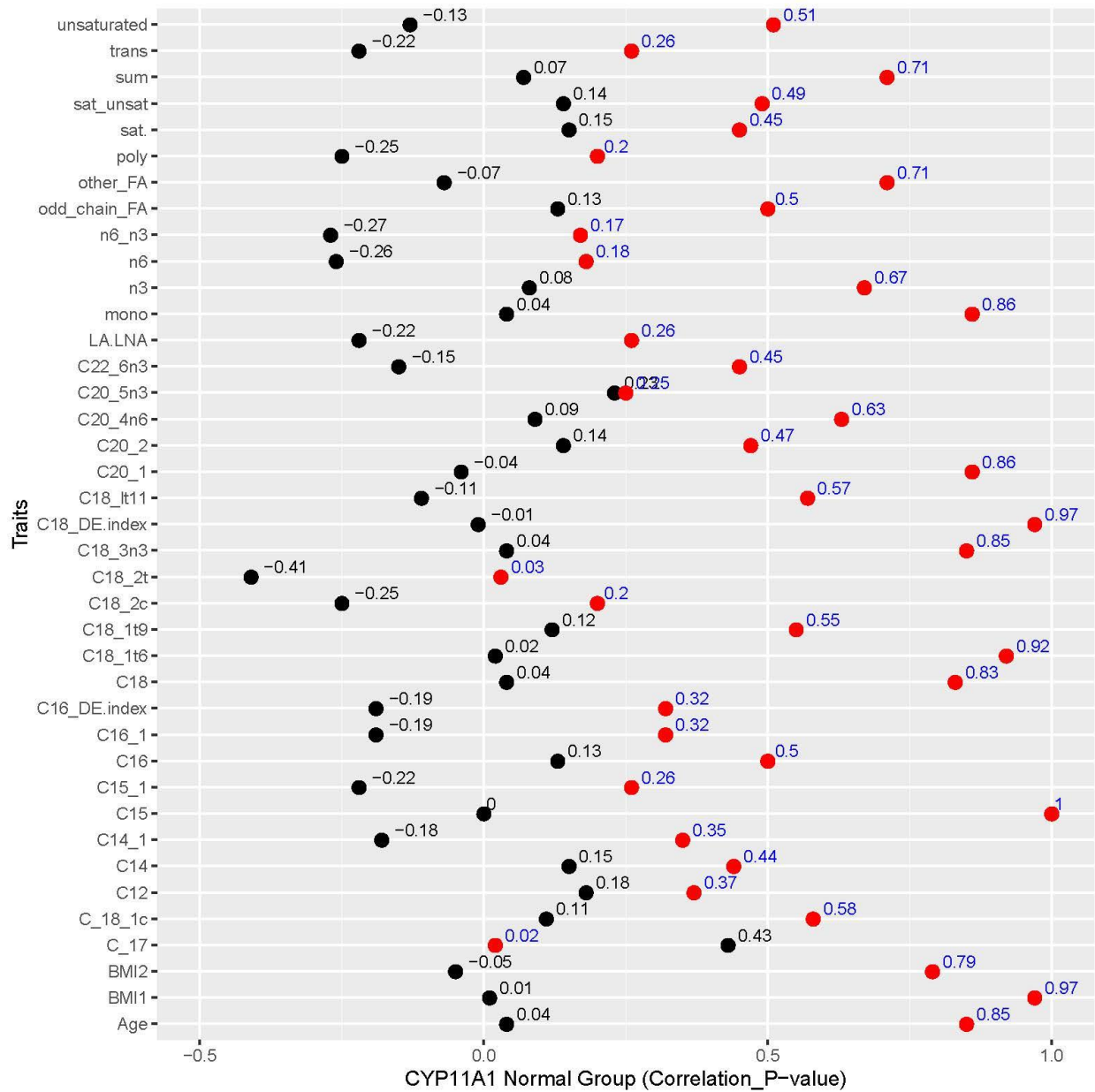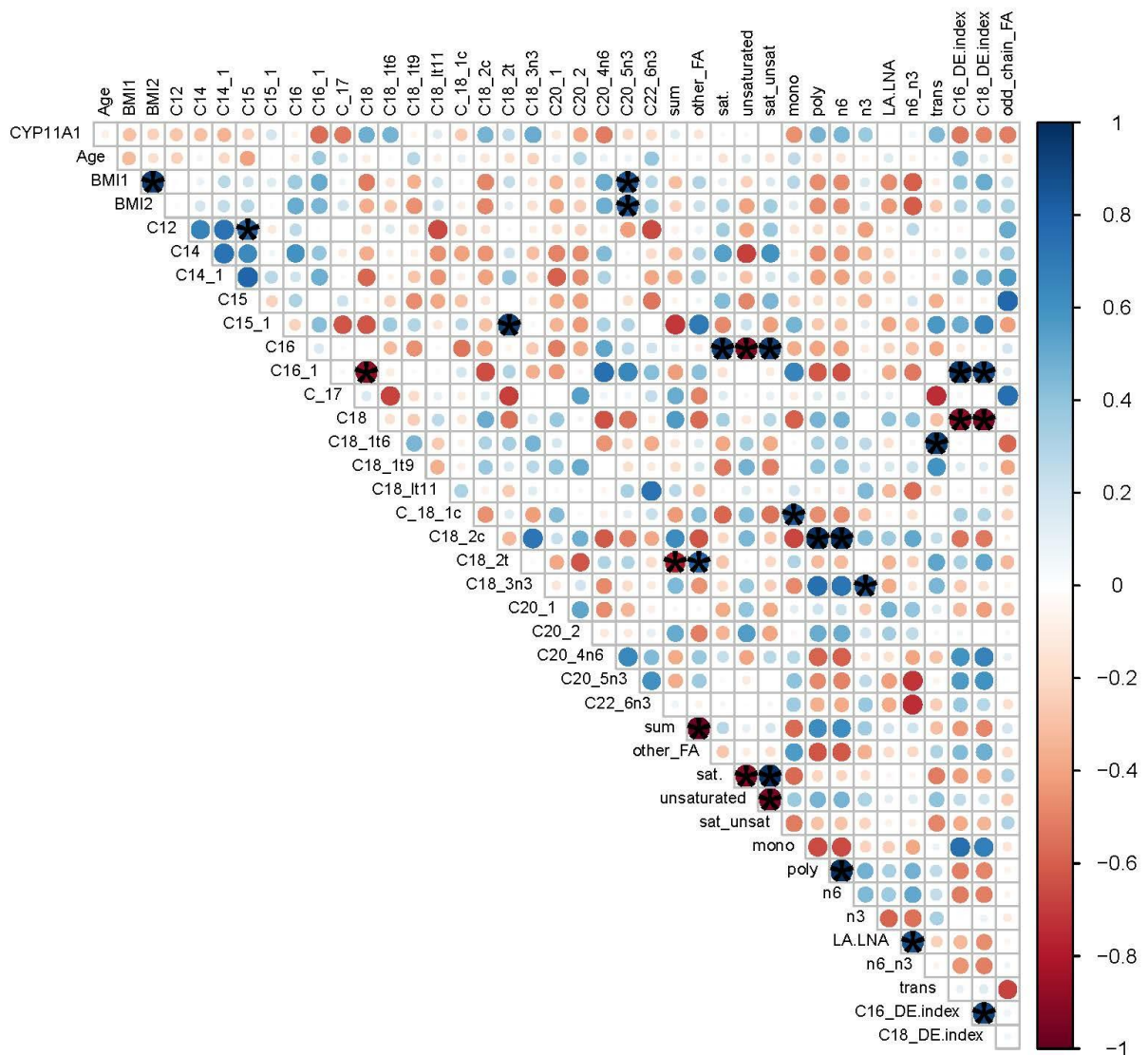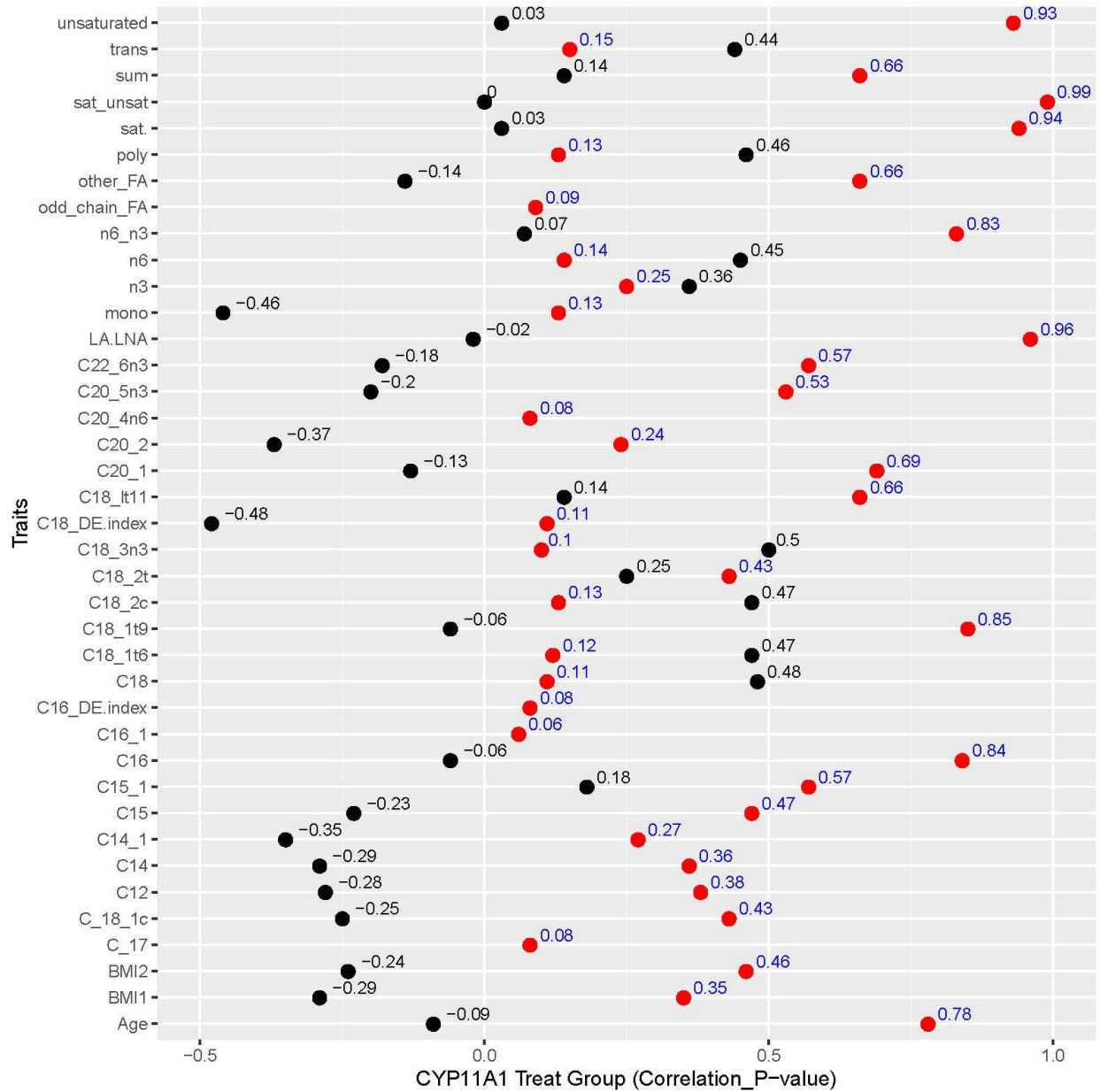10. Gyn-medicum, Center for Reproductive Medicine, Göttingen, Germany
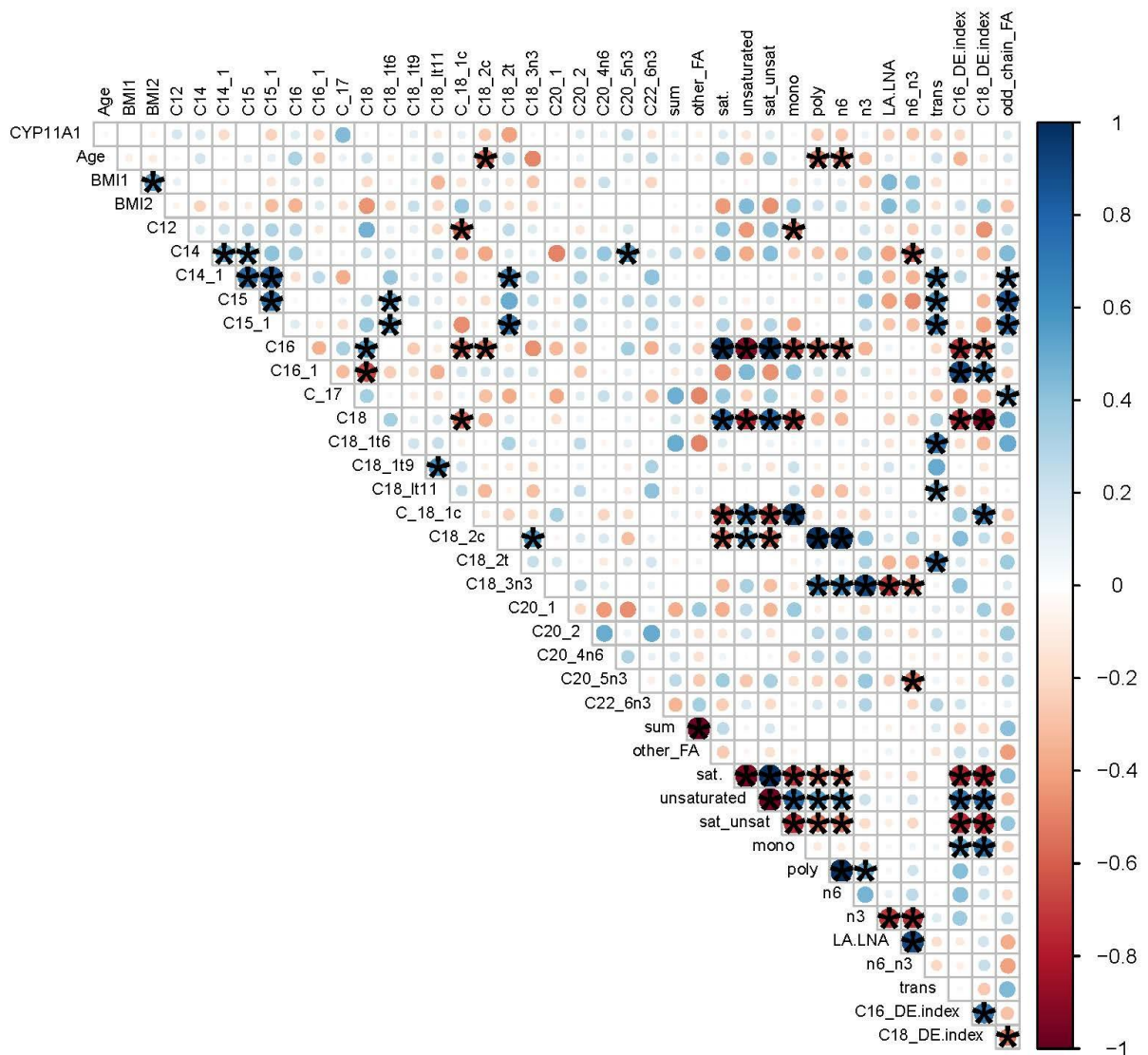
Figure S1.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
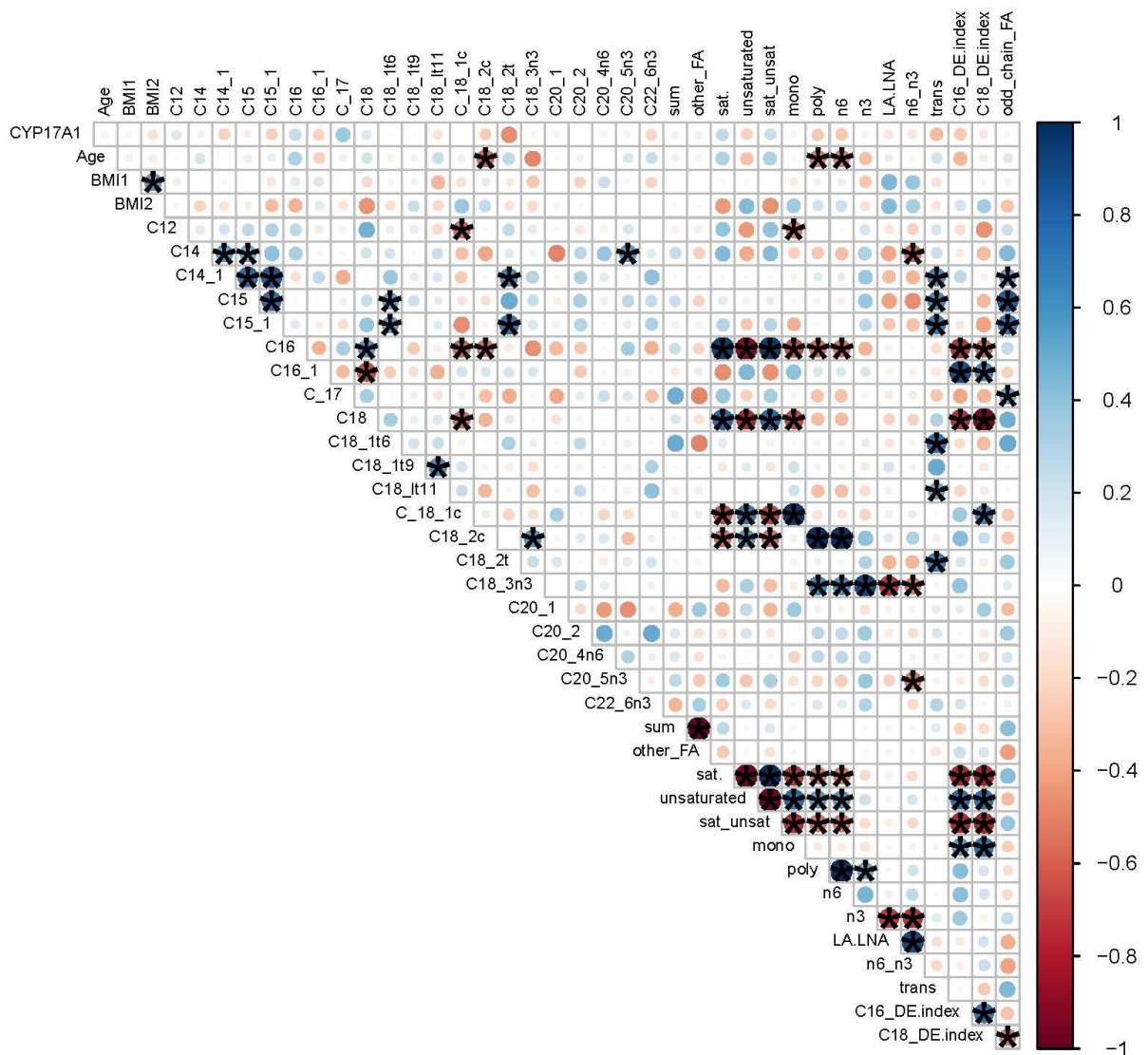
Figure S1.2 Dot plot of correlations between expression of *CYP11A1* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.
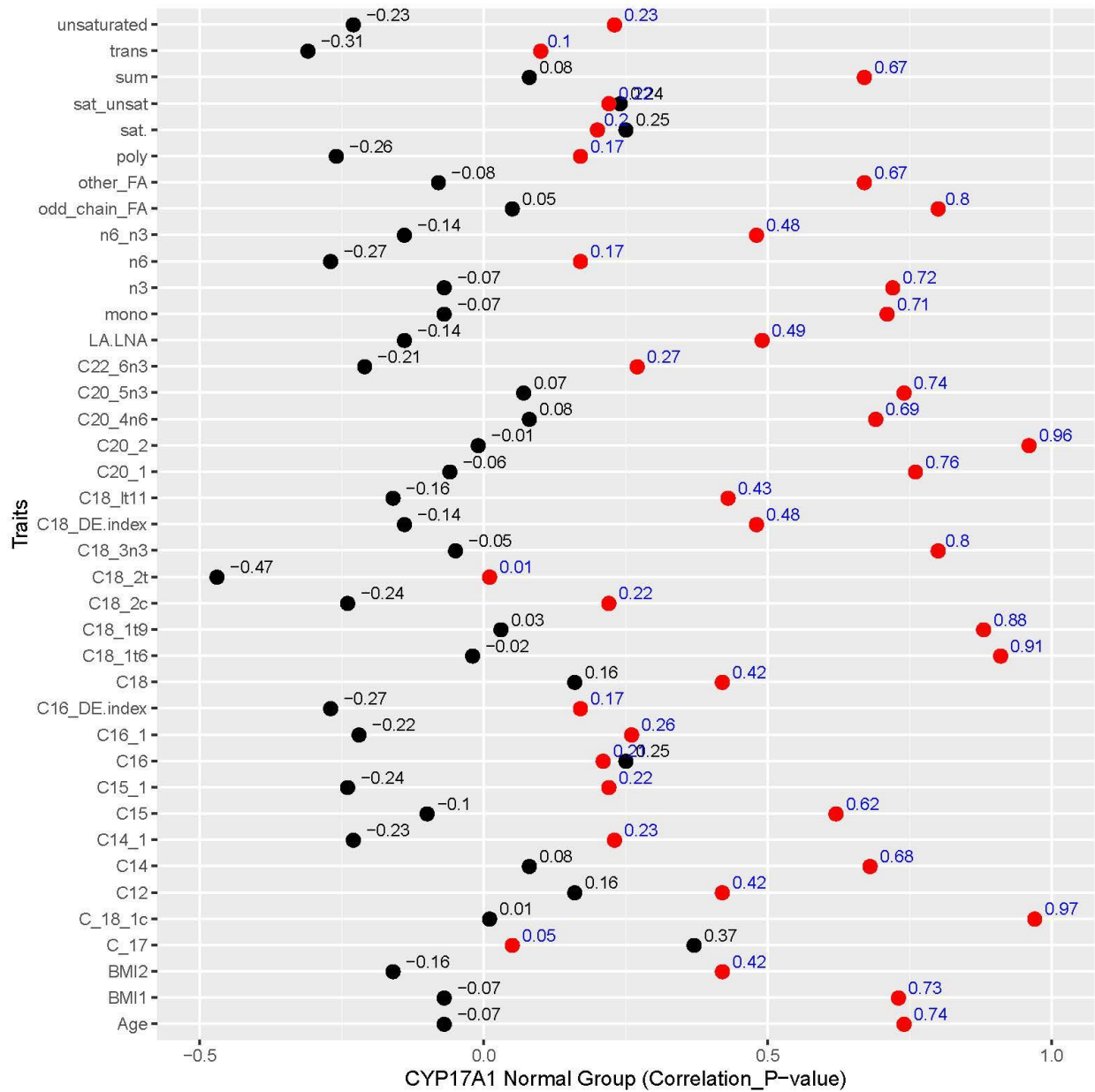
Figure S2.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
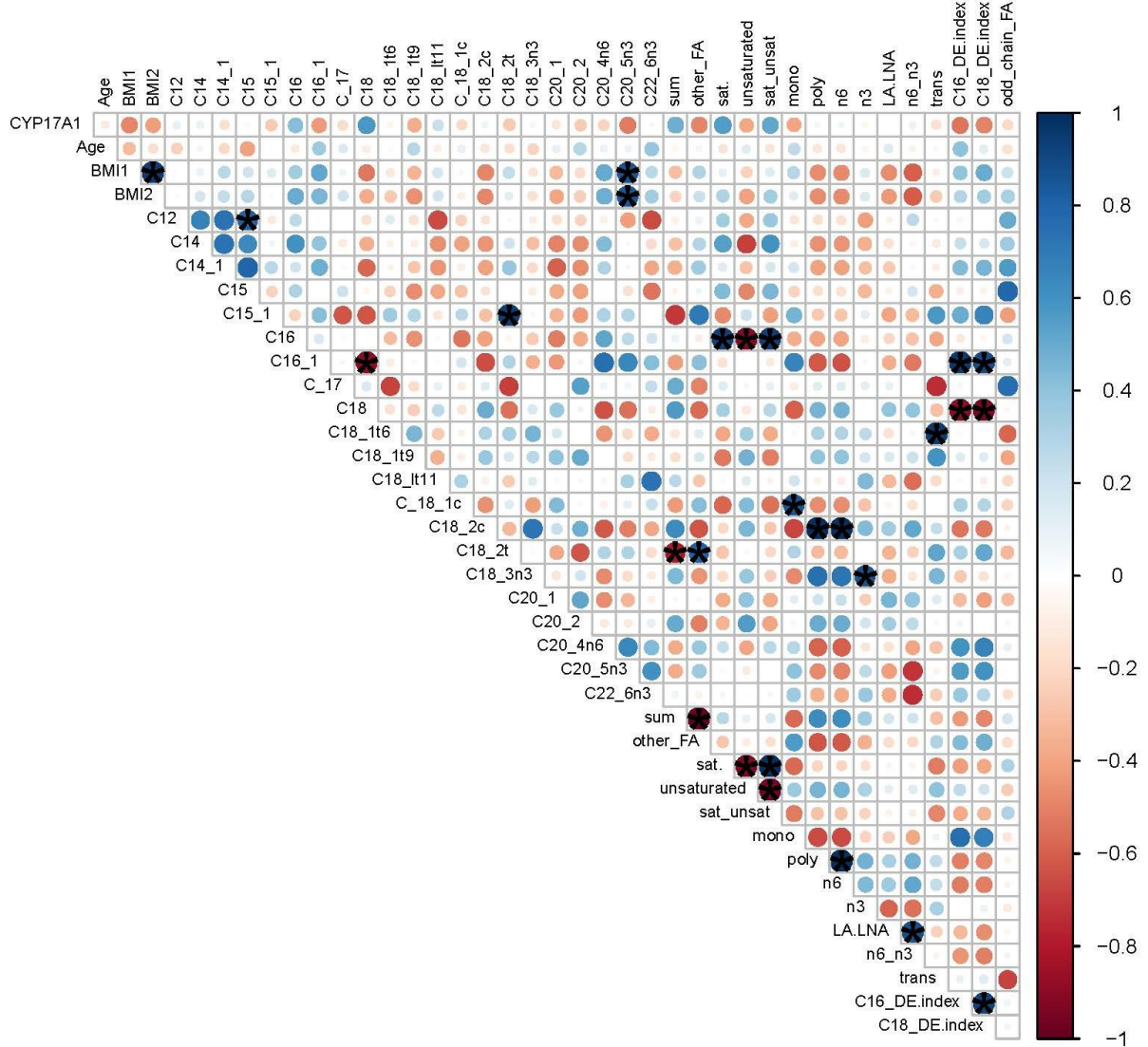
Figure S2.2. Dot plot of correlations between expression of *CYP11A1* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.
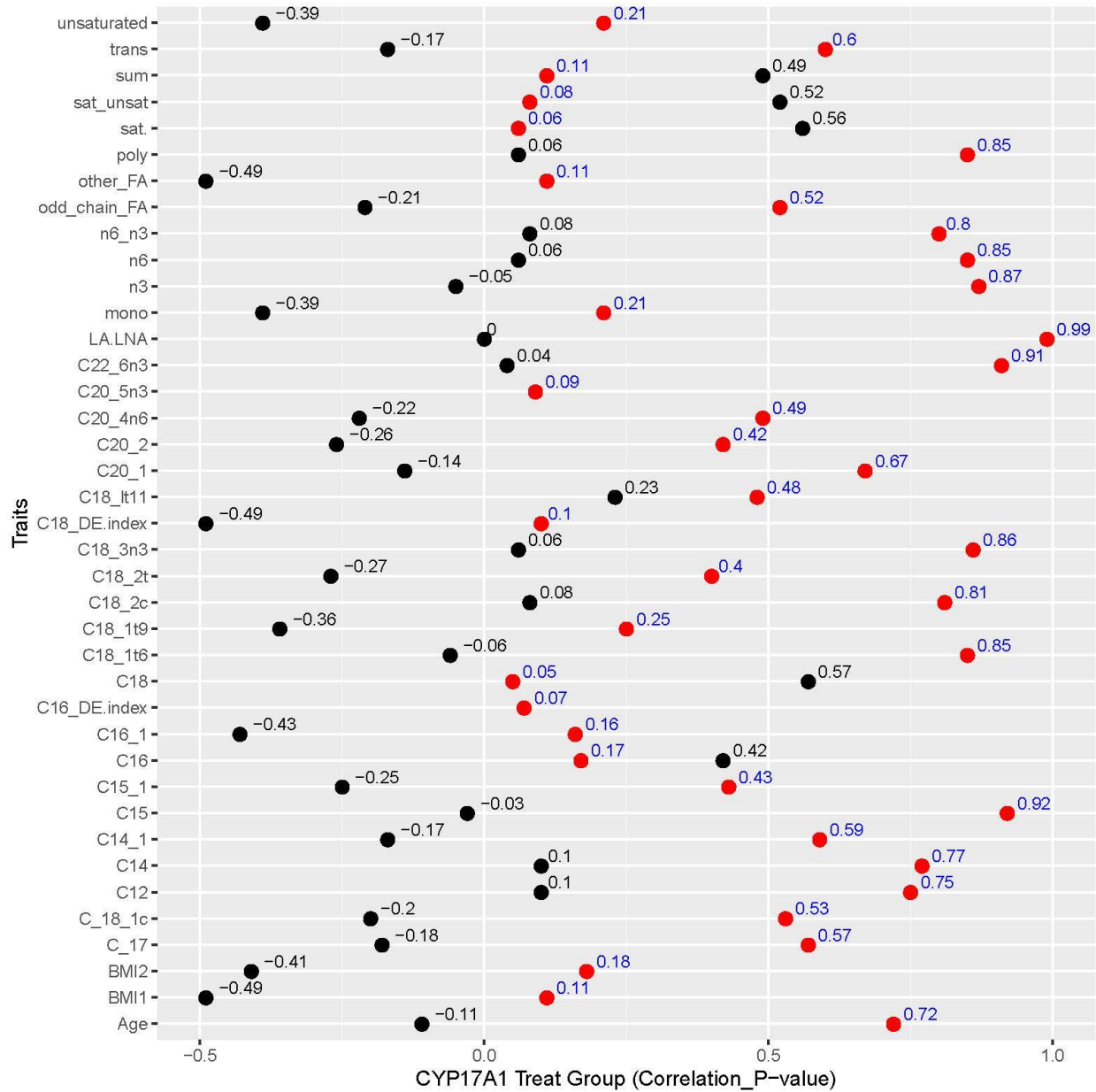
Figure S3.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
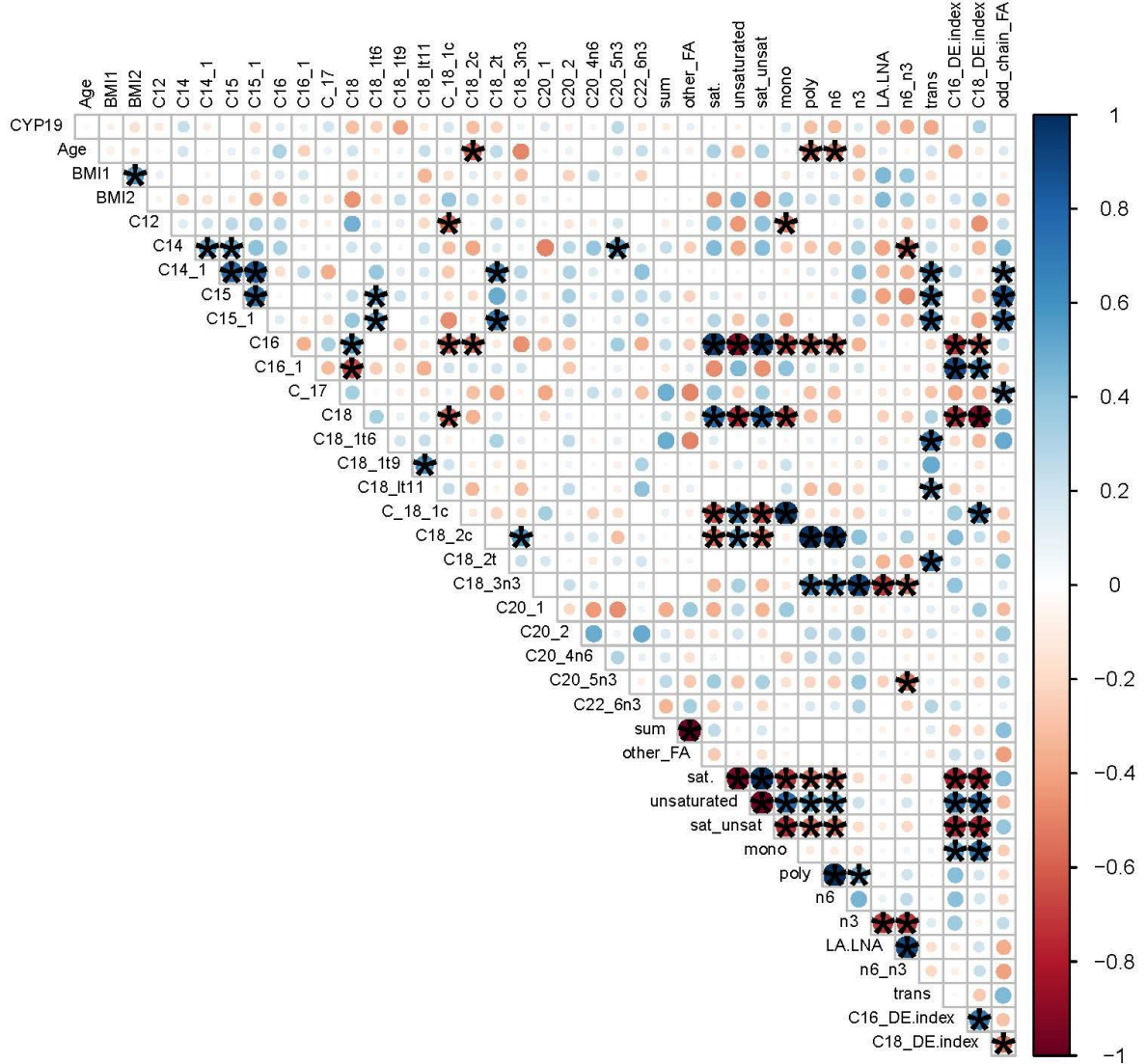
Figure S3.2 Dot plot of correlations between expression of *CYP17A1* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.
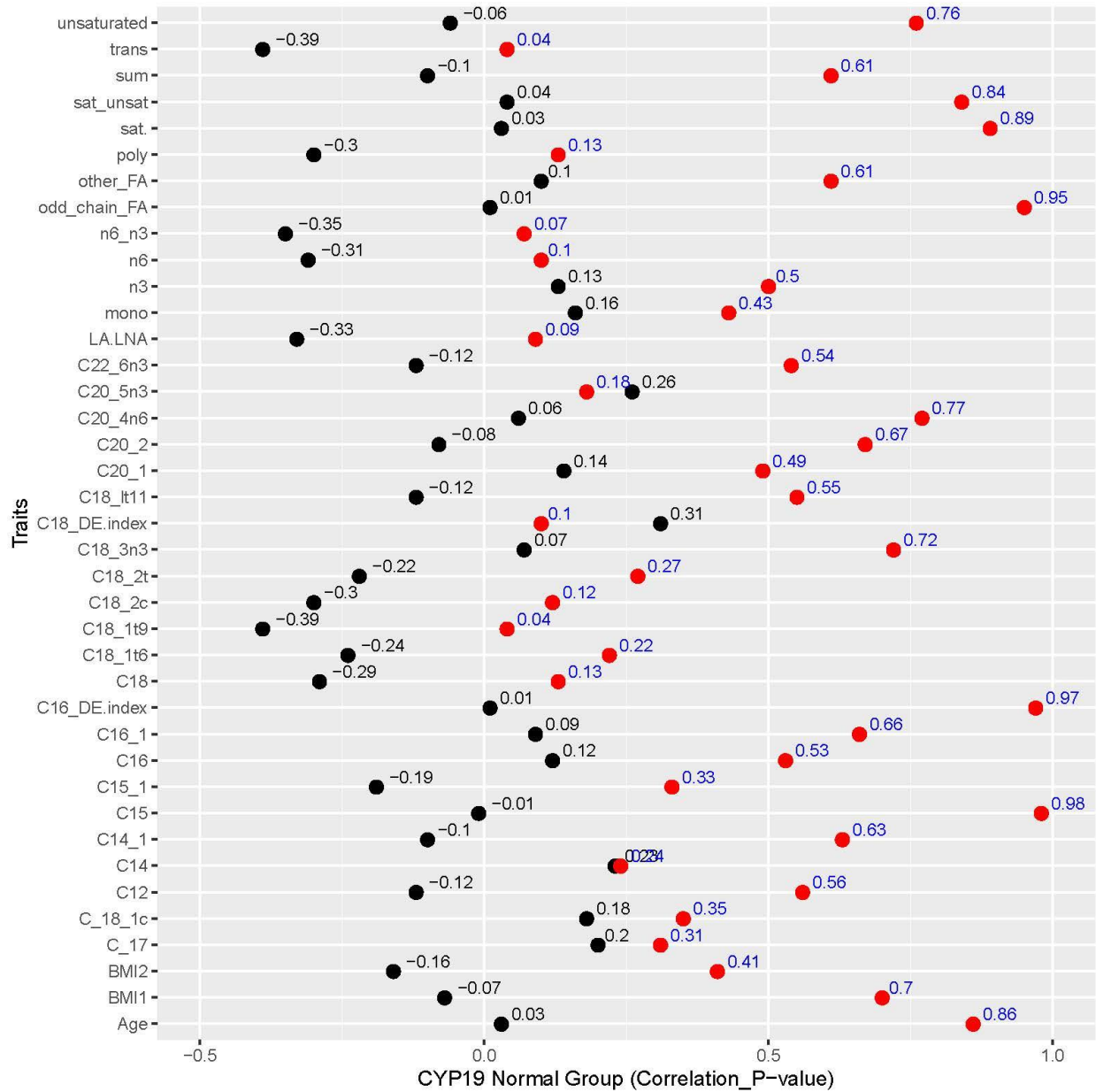
Figure S4.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
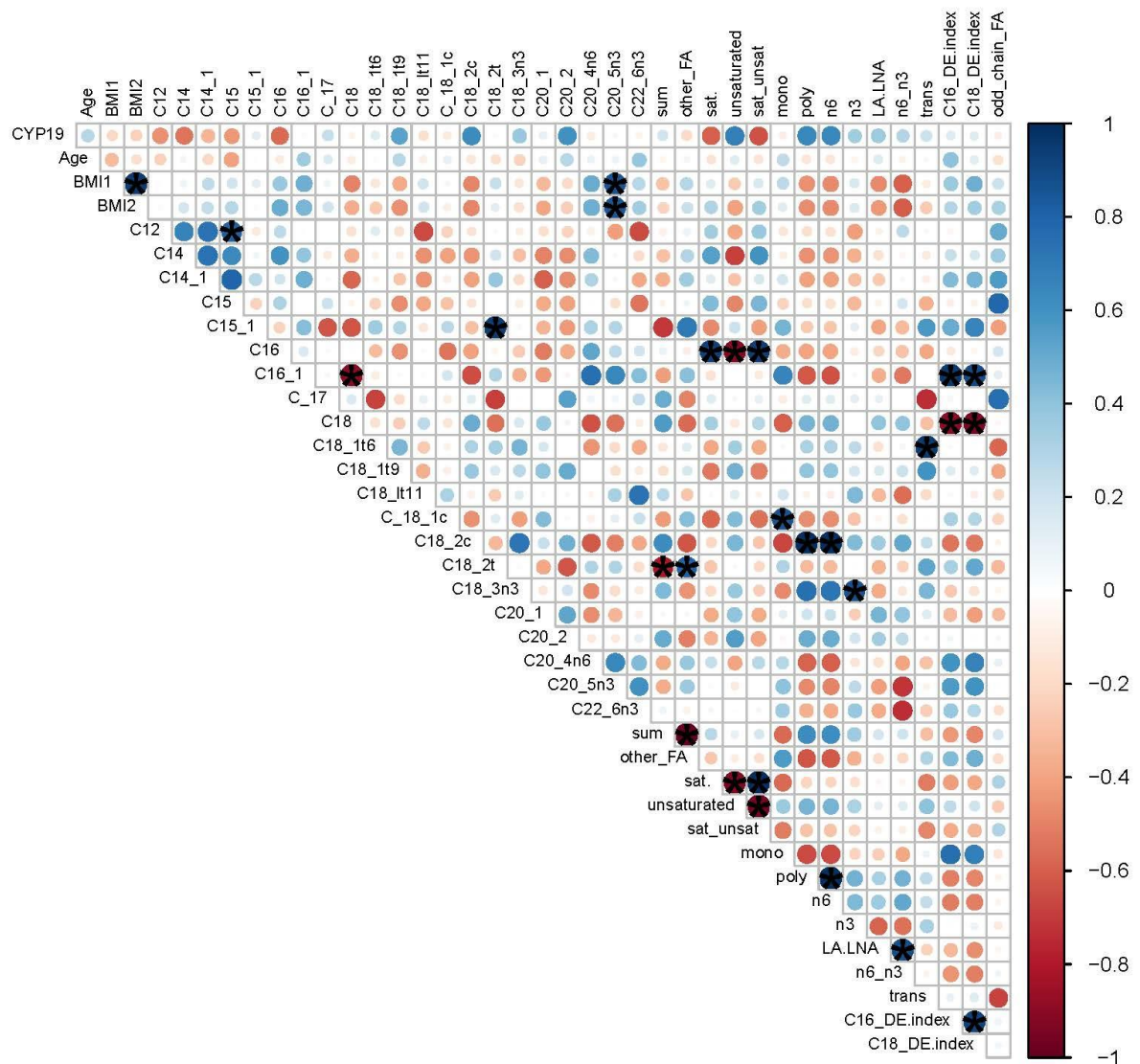
Figure S4.2. Dot plot of correlations between expression of *CYP17A1* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.
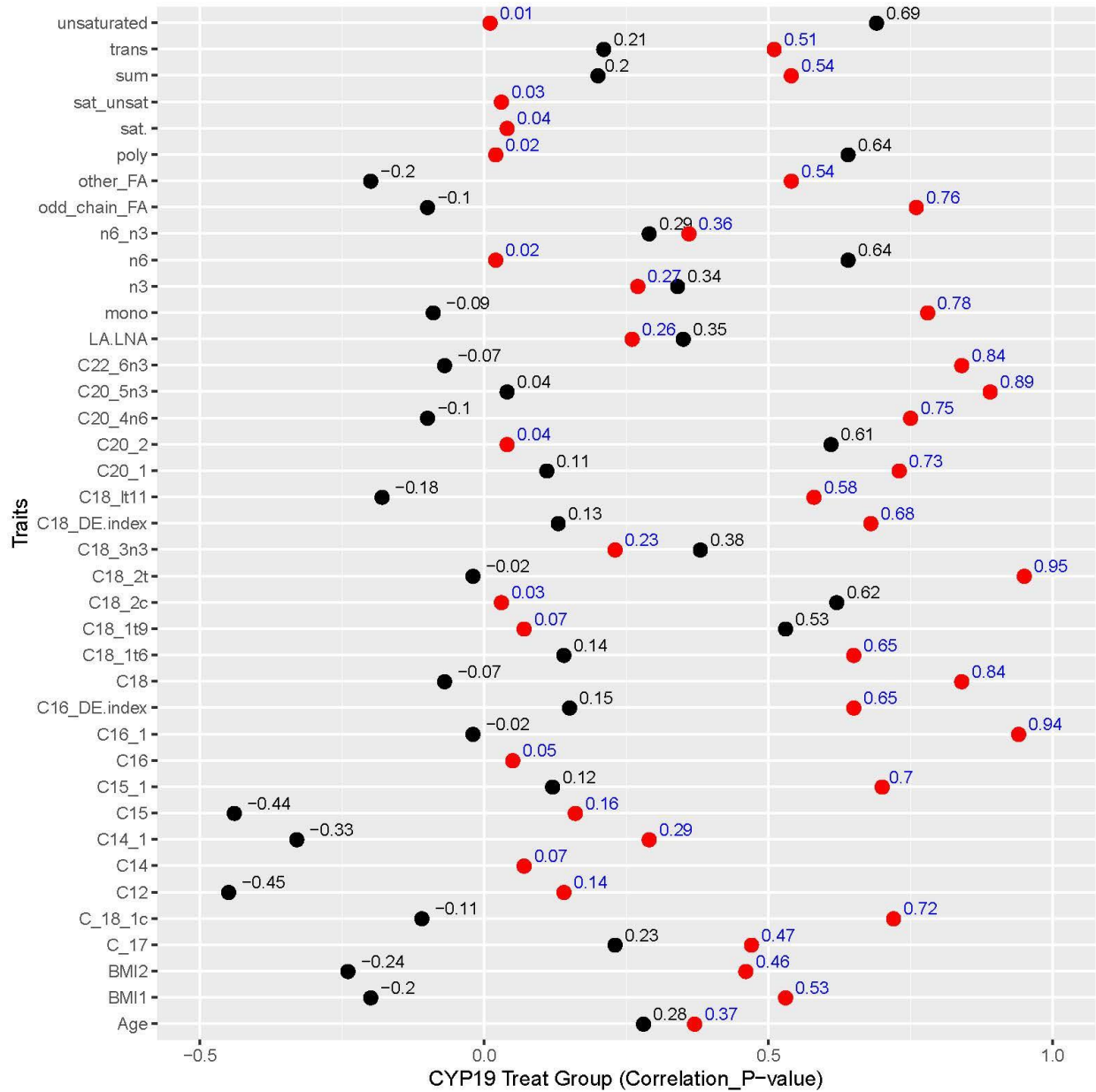
Figure S5.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
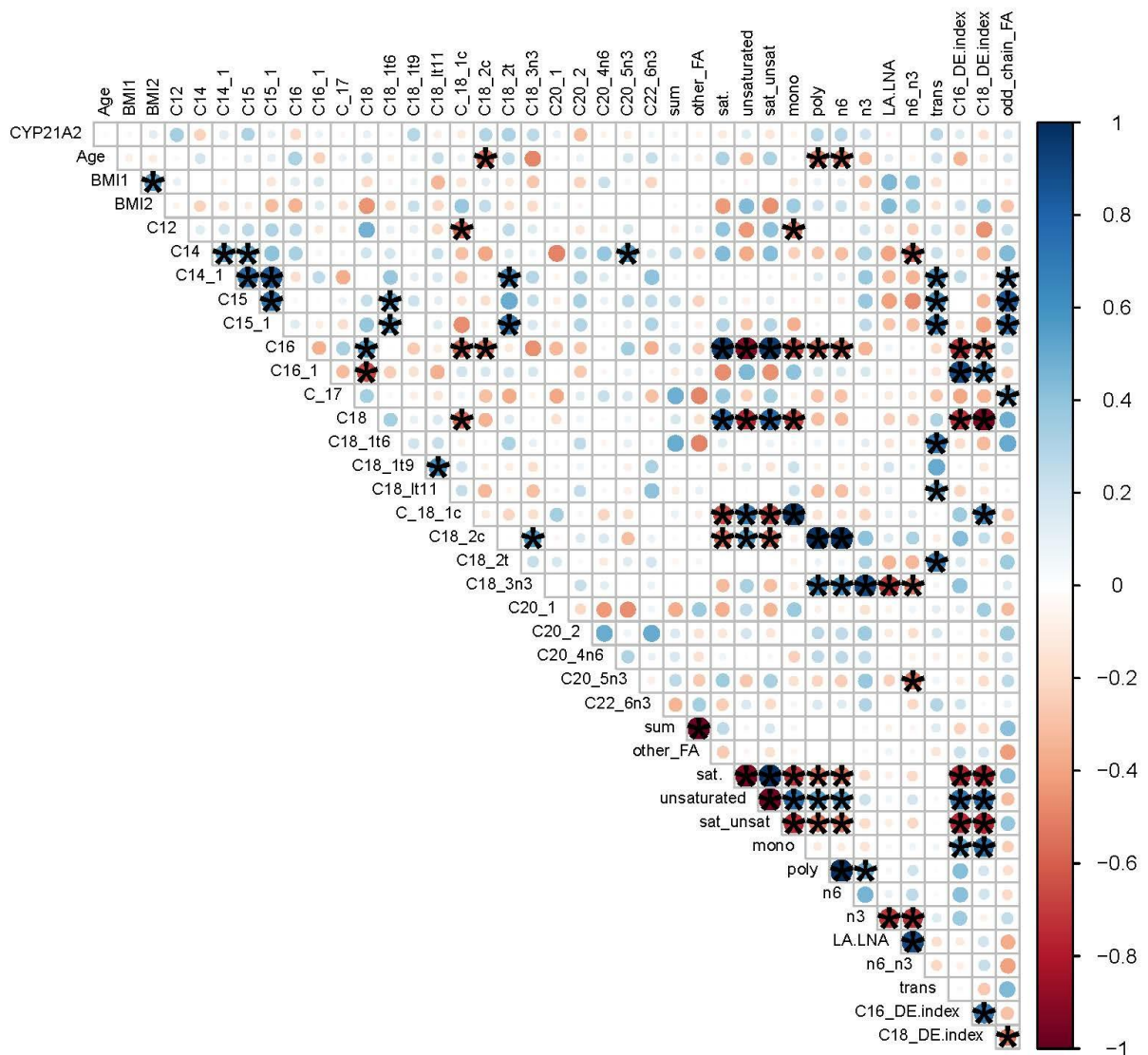
Figure S5.2. Dot plot of correlations between expression of *CYP19* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.
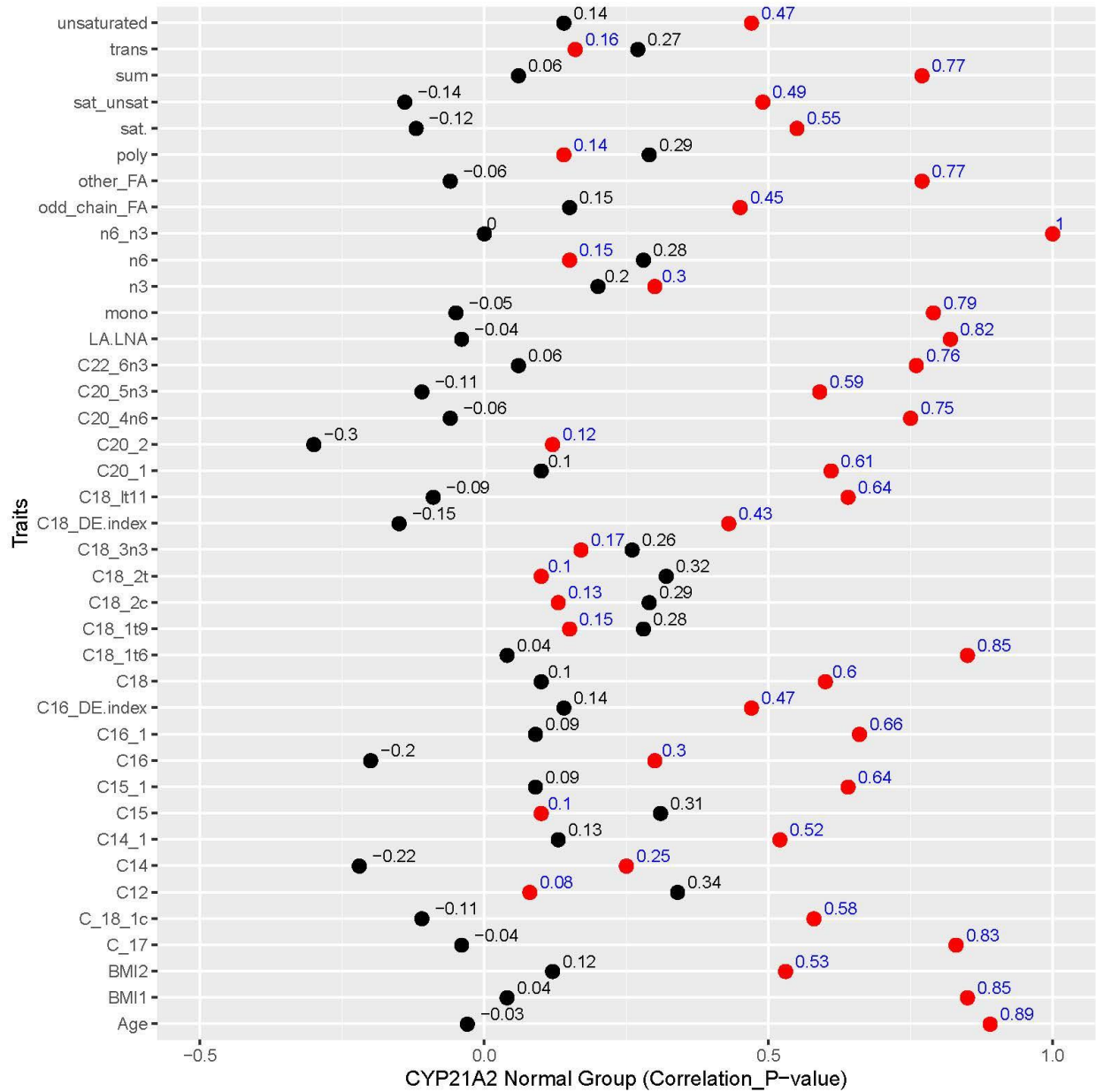
Figure S٢.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
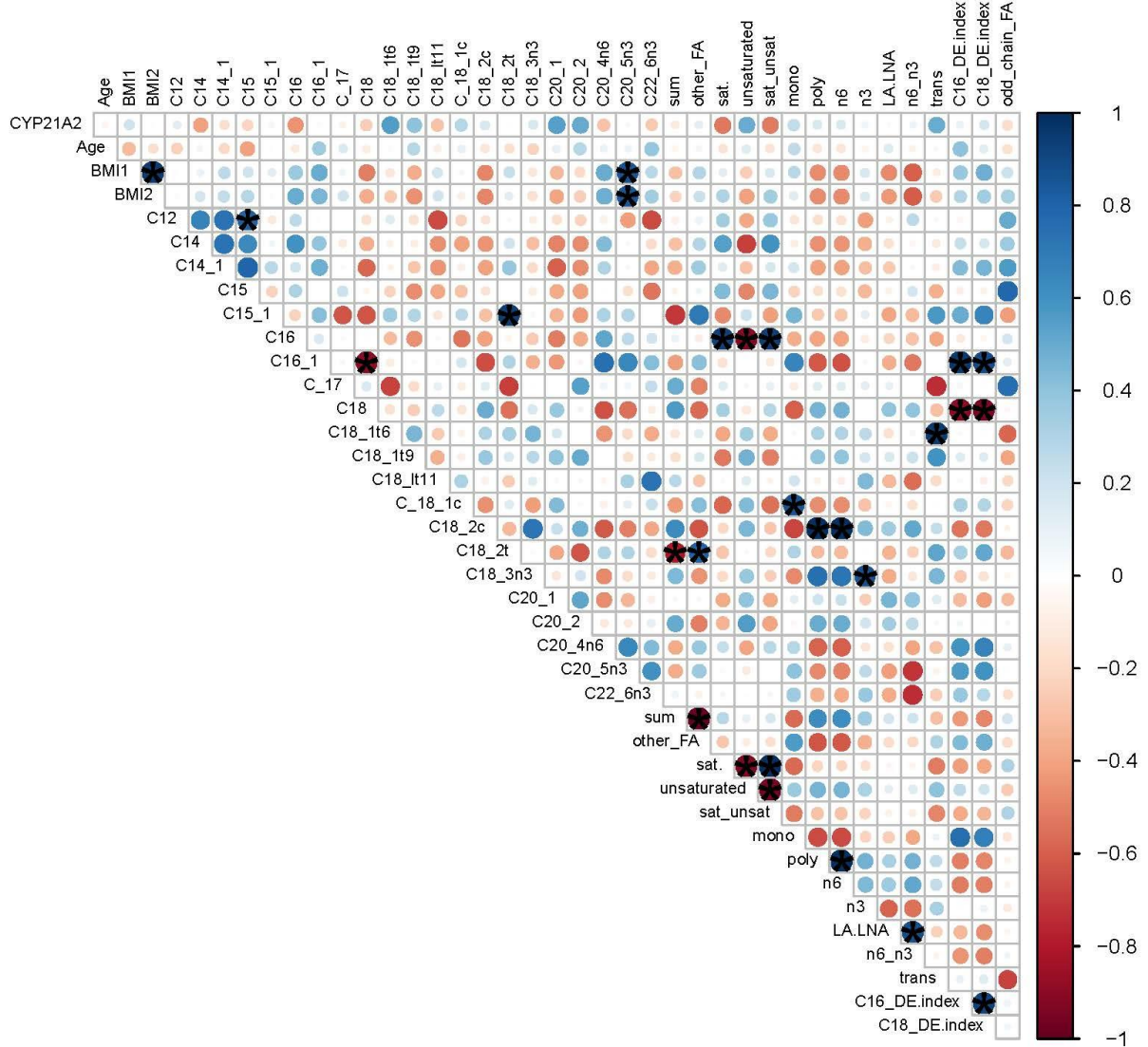
Figure S٦.2. Dot plot of correlations between expression of *CYP1٩* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.
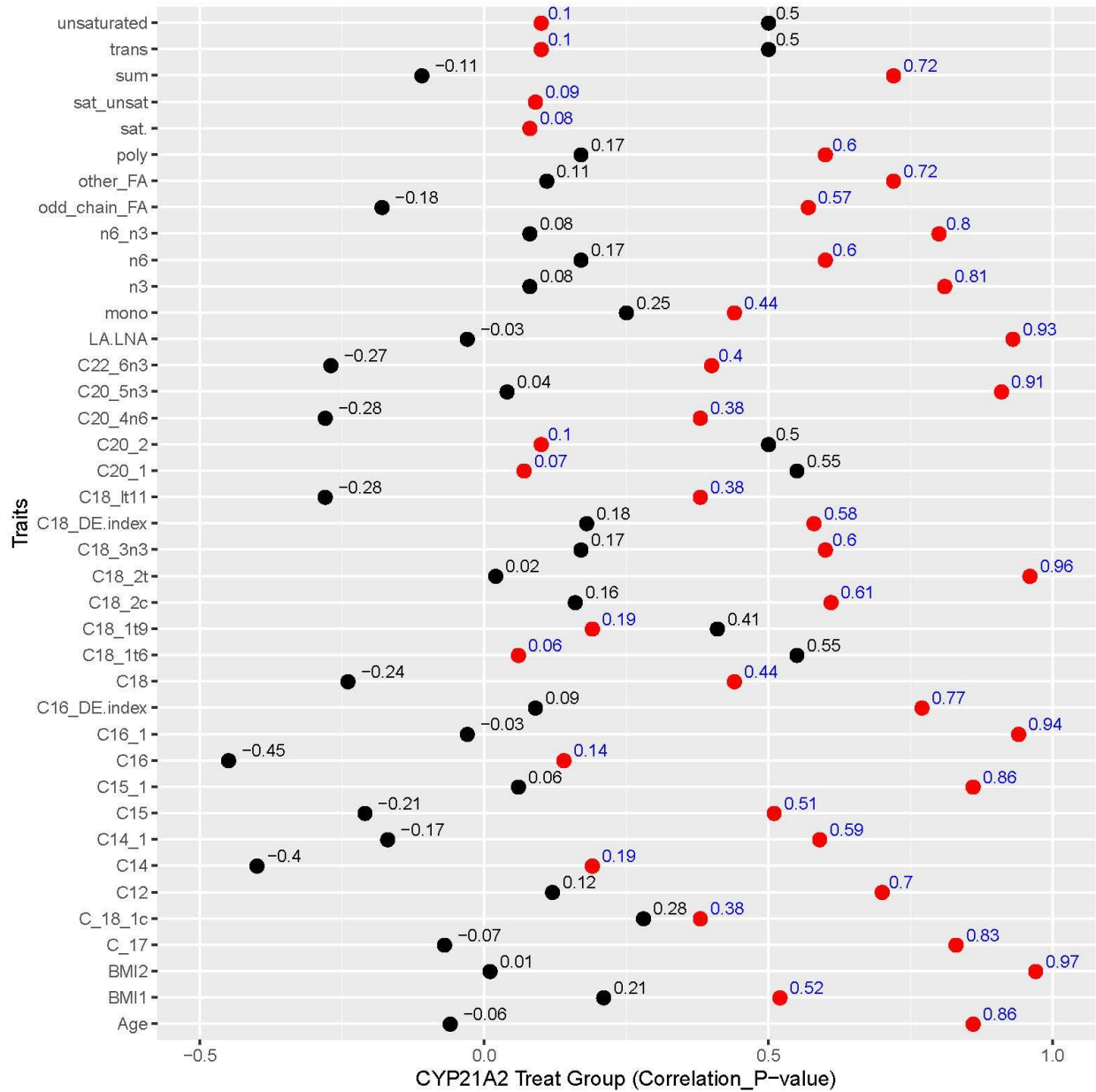
Figure S⌄.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
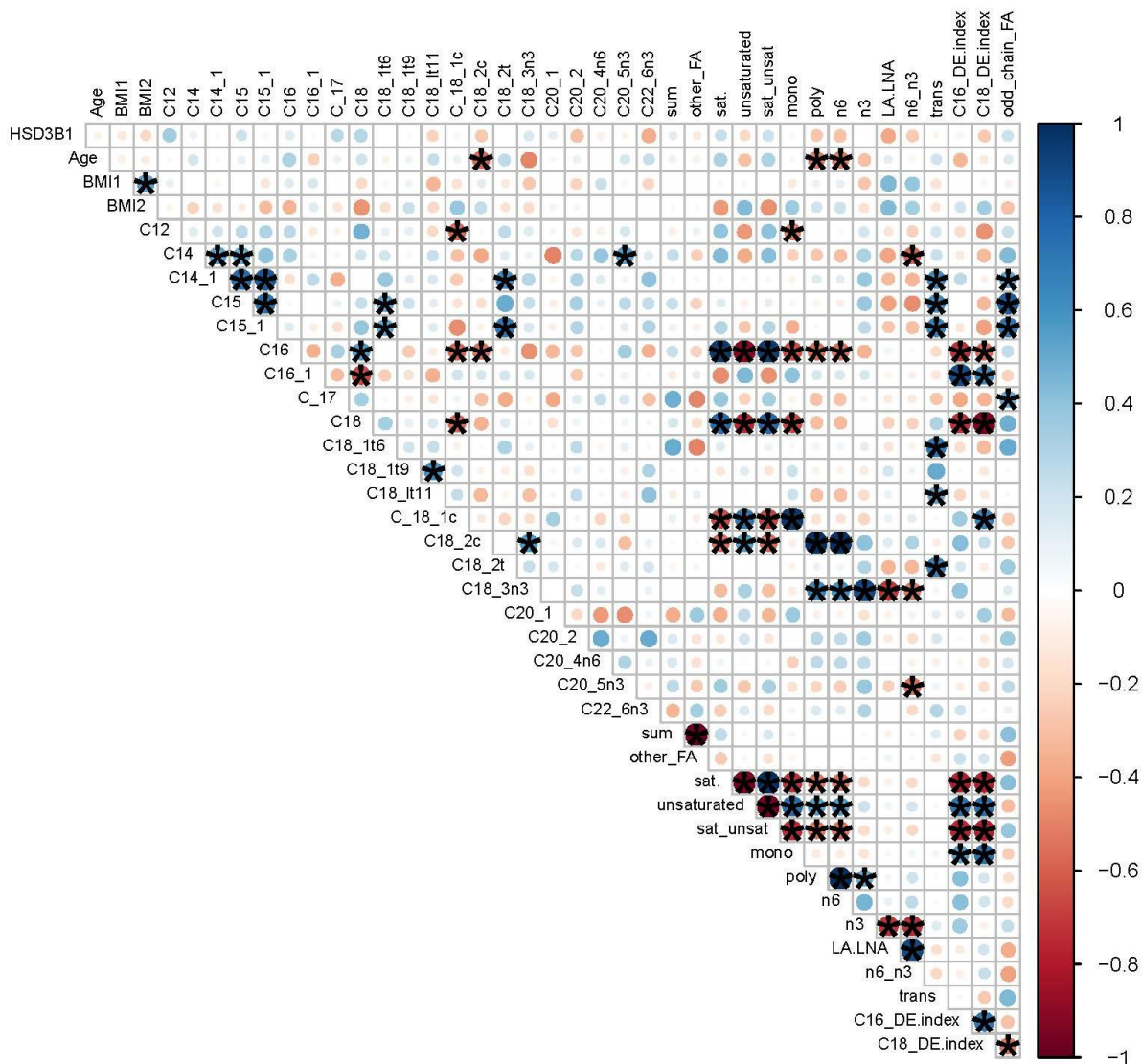
Figure S٧.2. Dot plot of correlations between expression of _CYP ٢١_ and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.
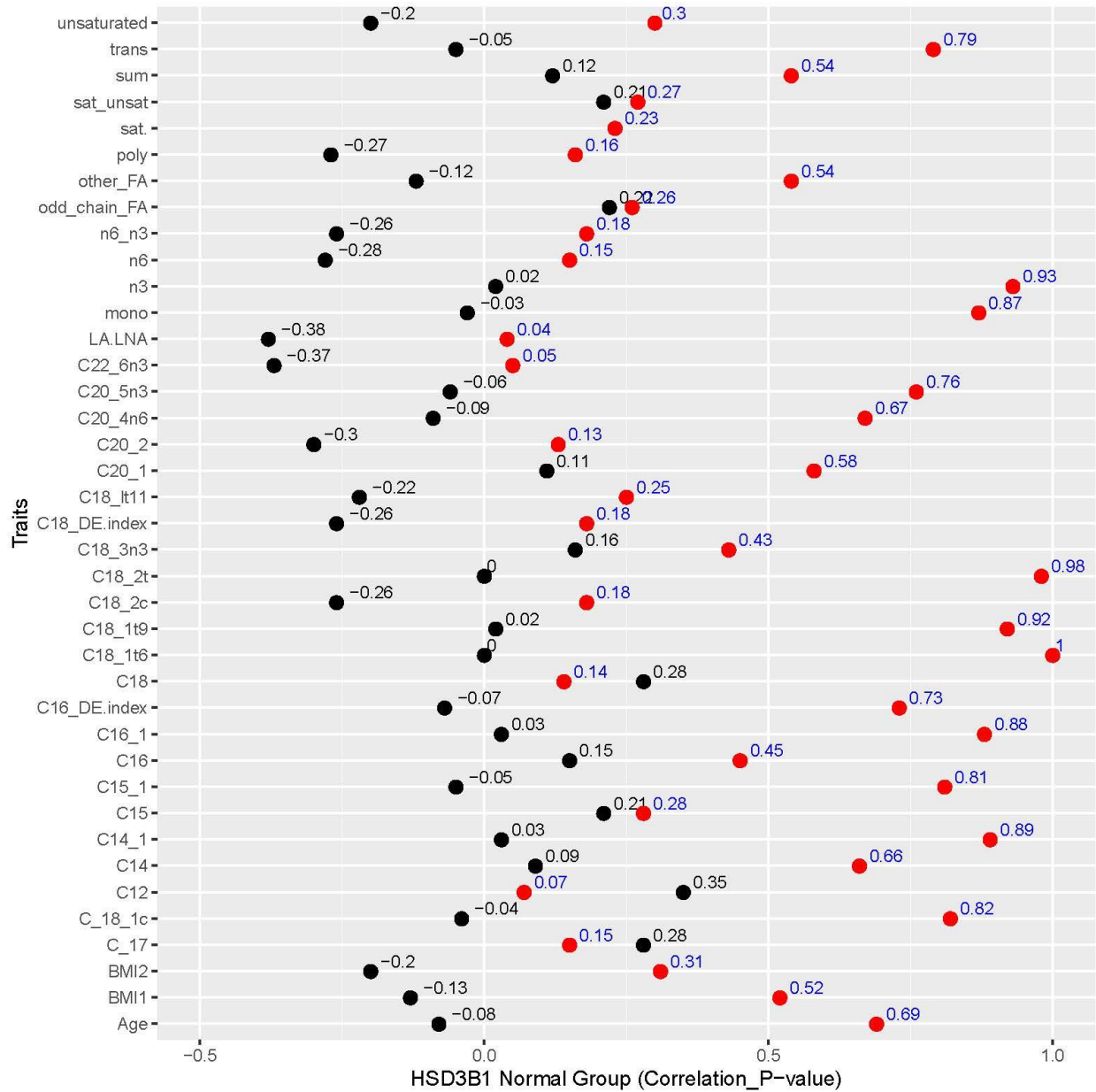
Figure S^.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
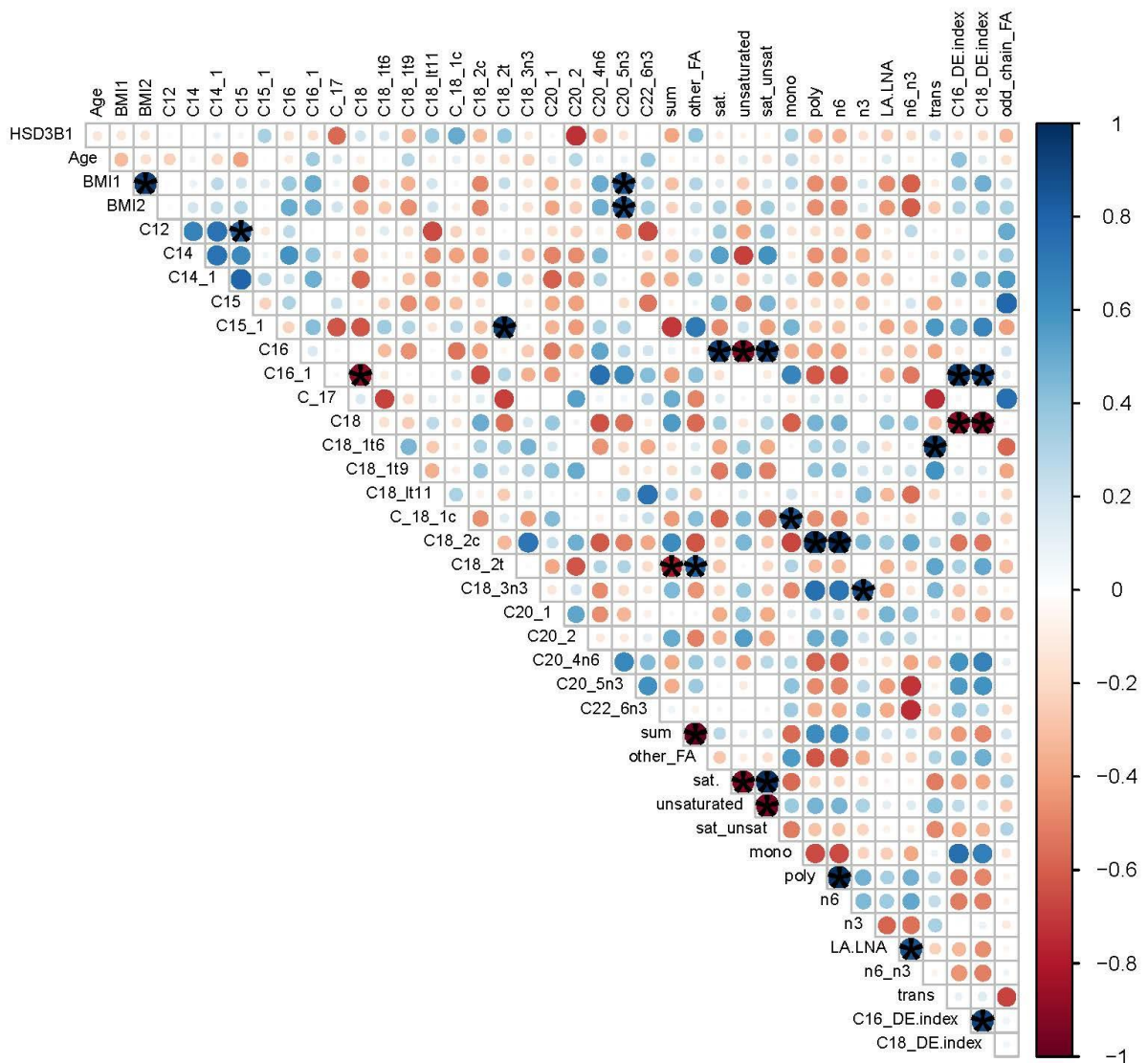
Figure S^.2. Dot plot of correlations between expression of *CYP21A2* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.
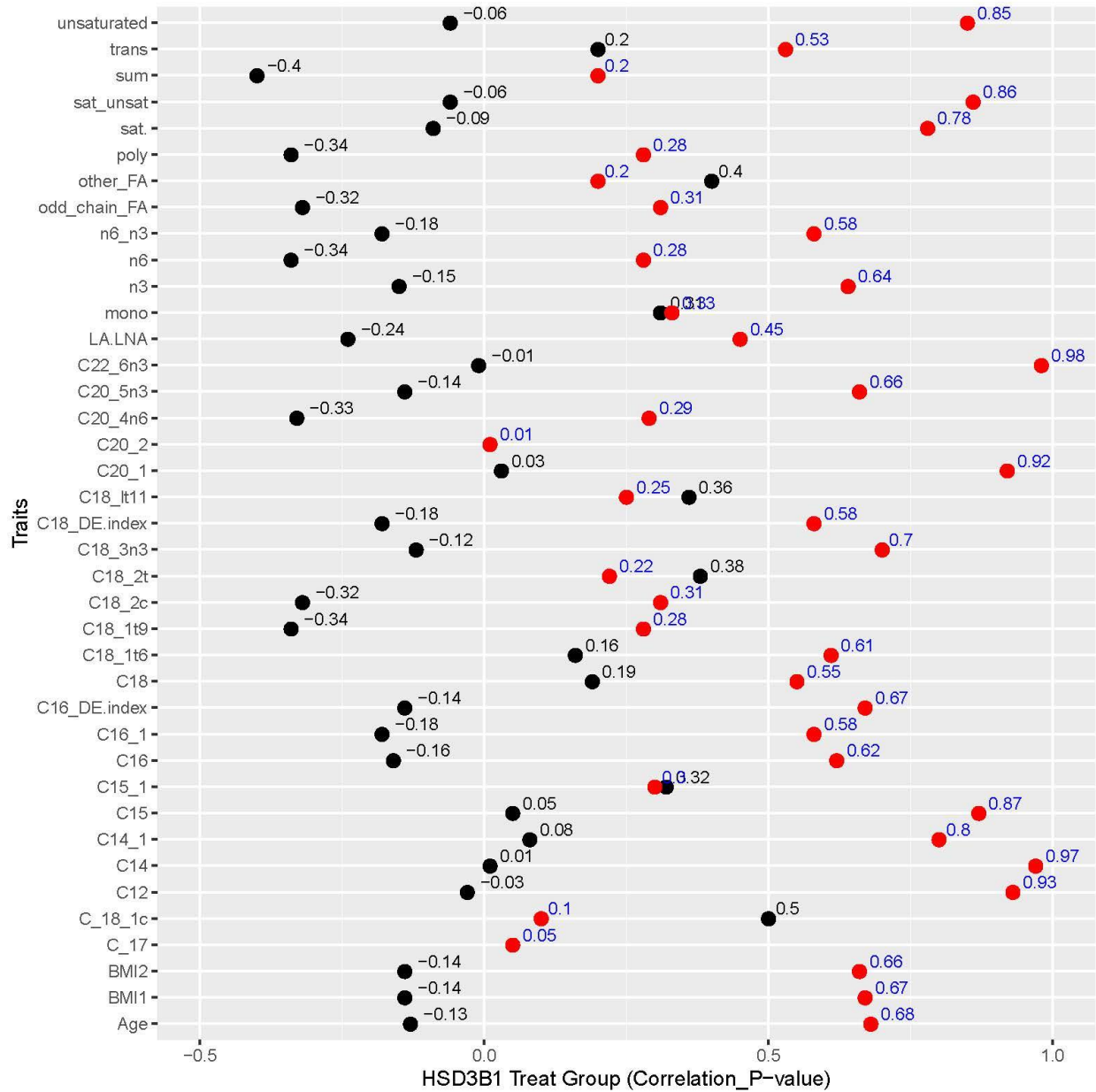
Figure S9.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
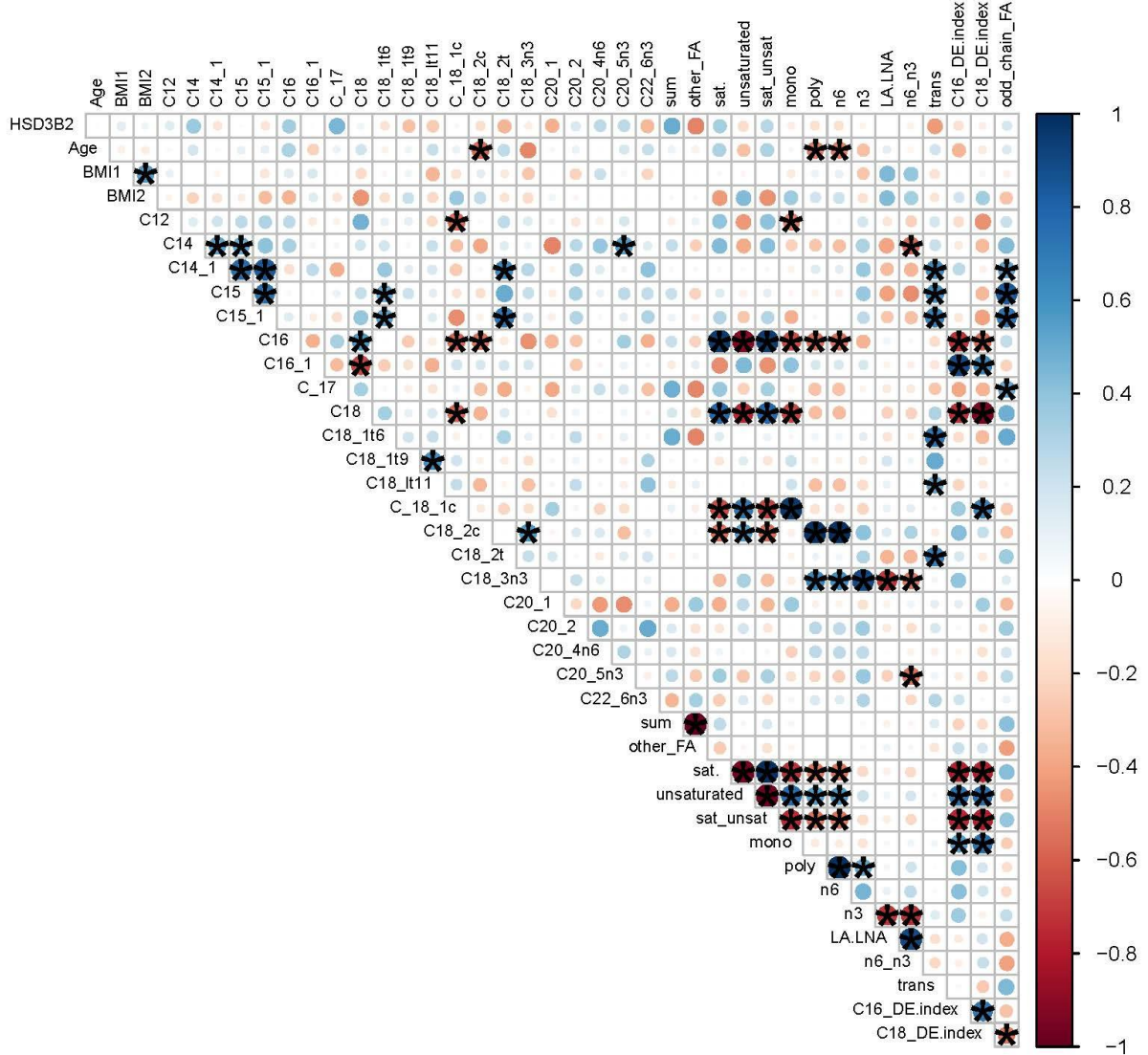
Figure S9.2. Dot plot of correlations between expression of *3BHSD1* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.
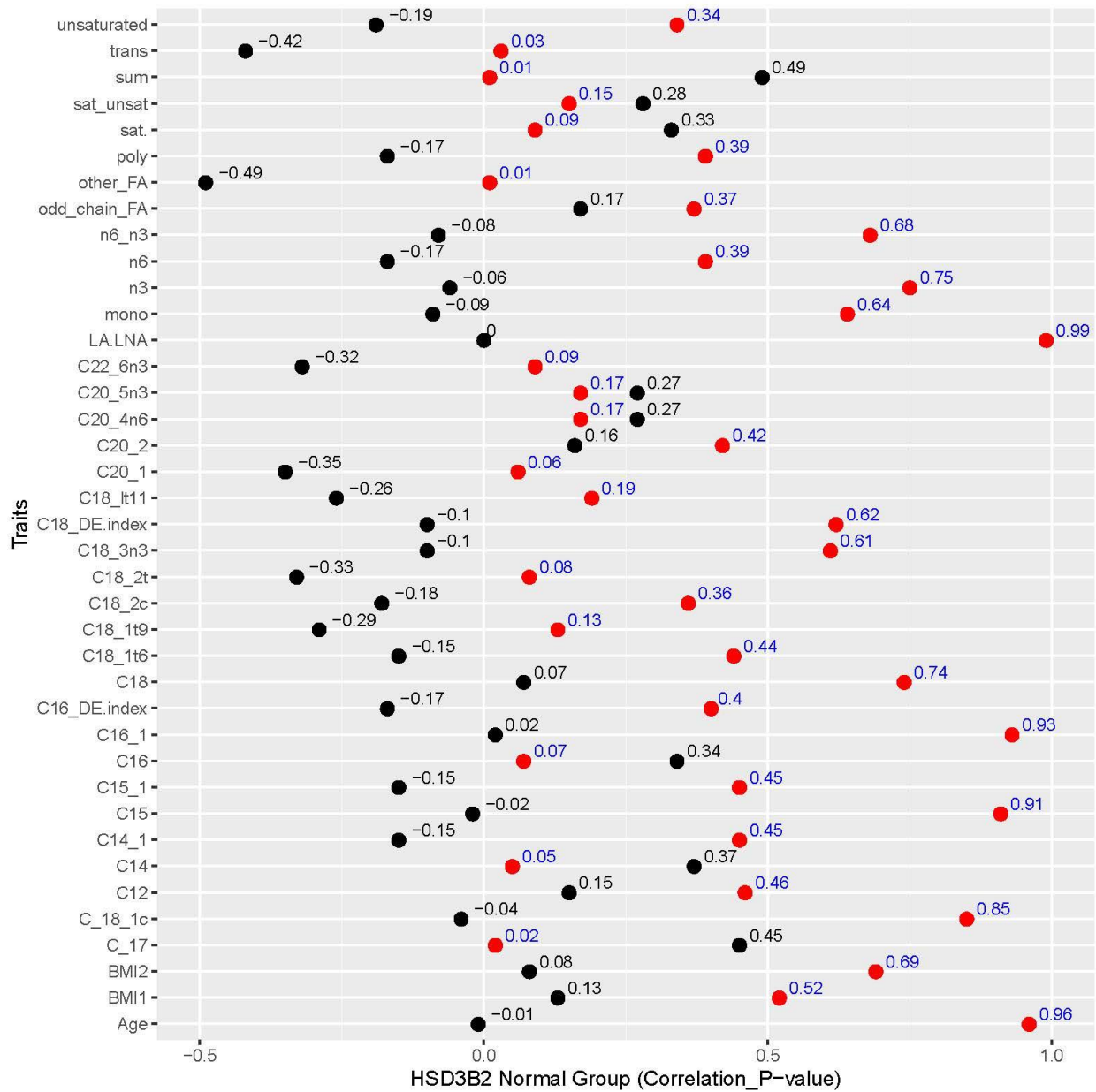
Figure S10.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
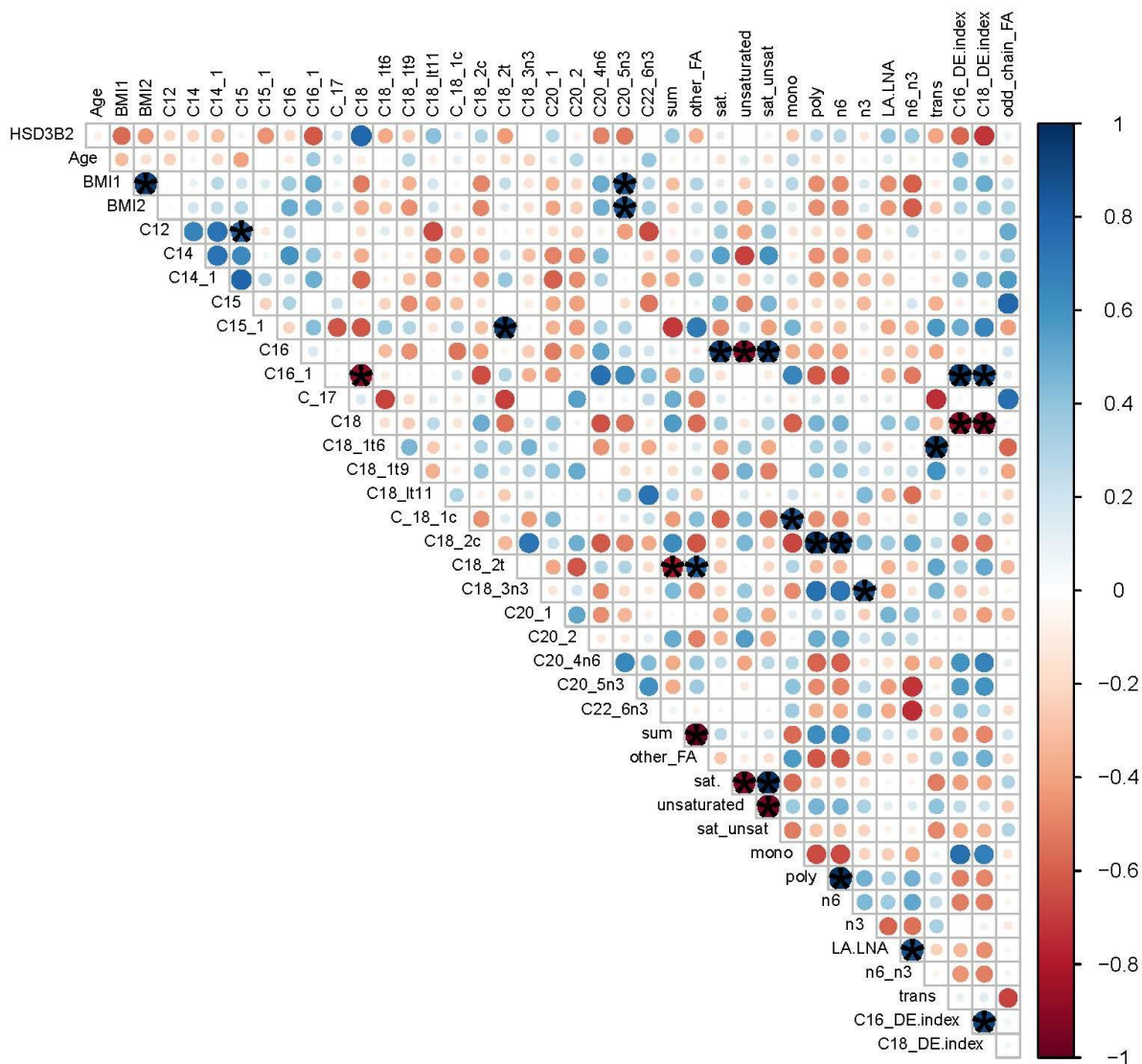
Figure S10.2. Dot plot of correlations between expression of *3BHSD1* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.
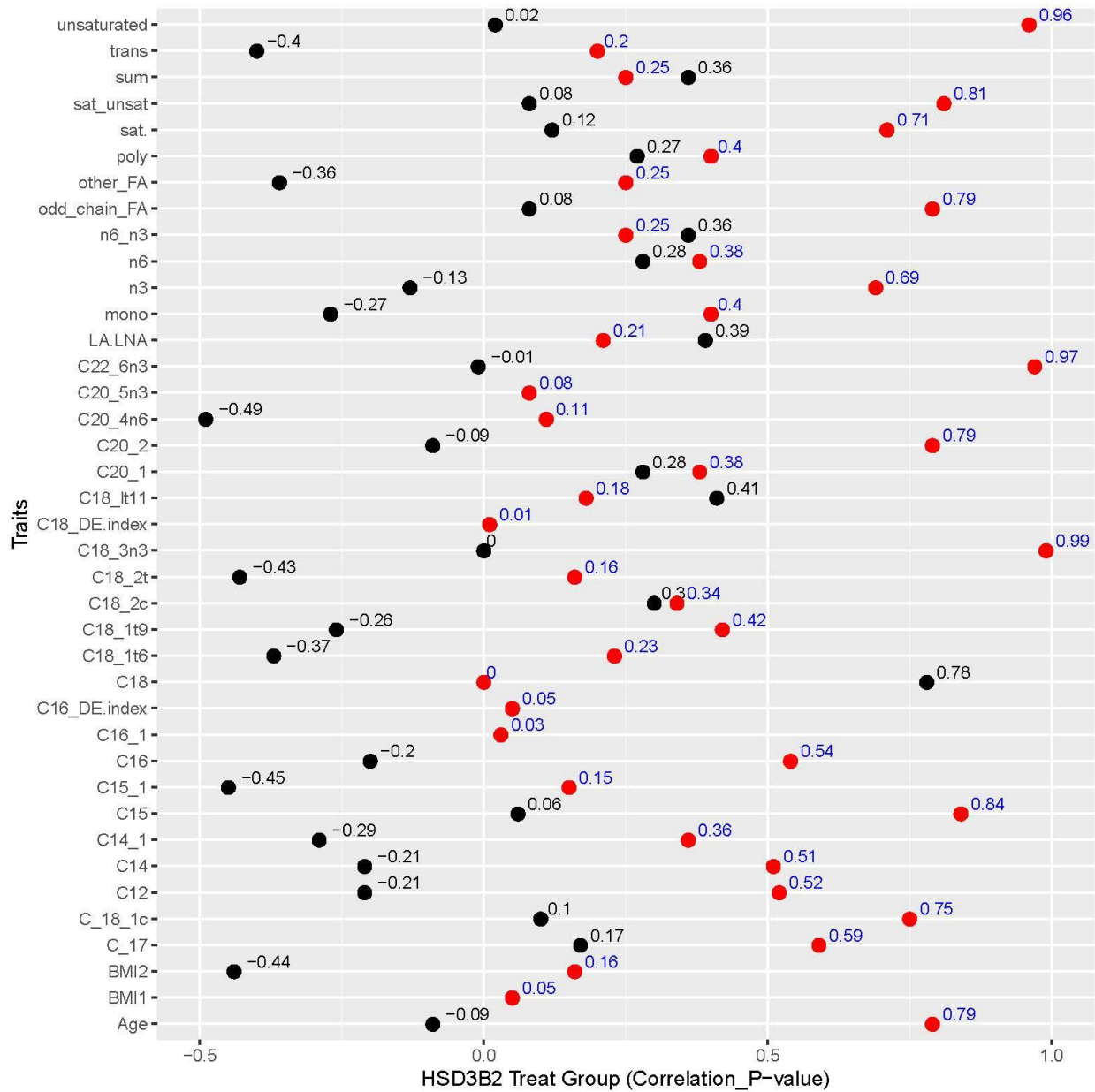
Figure S11.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
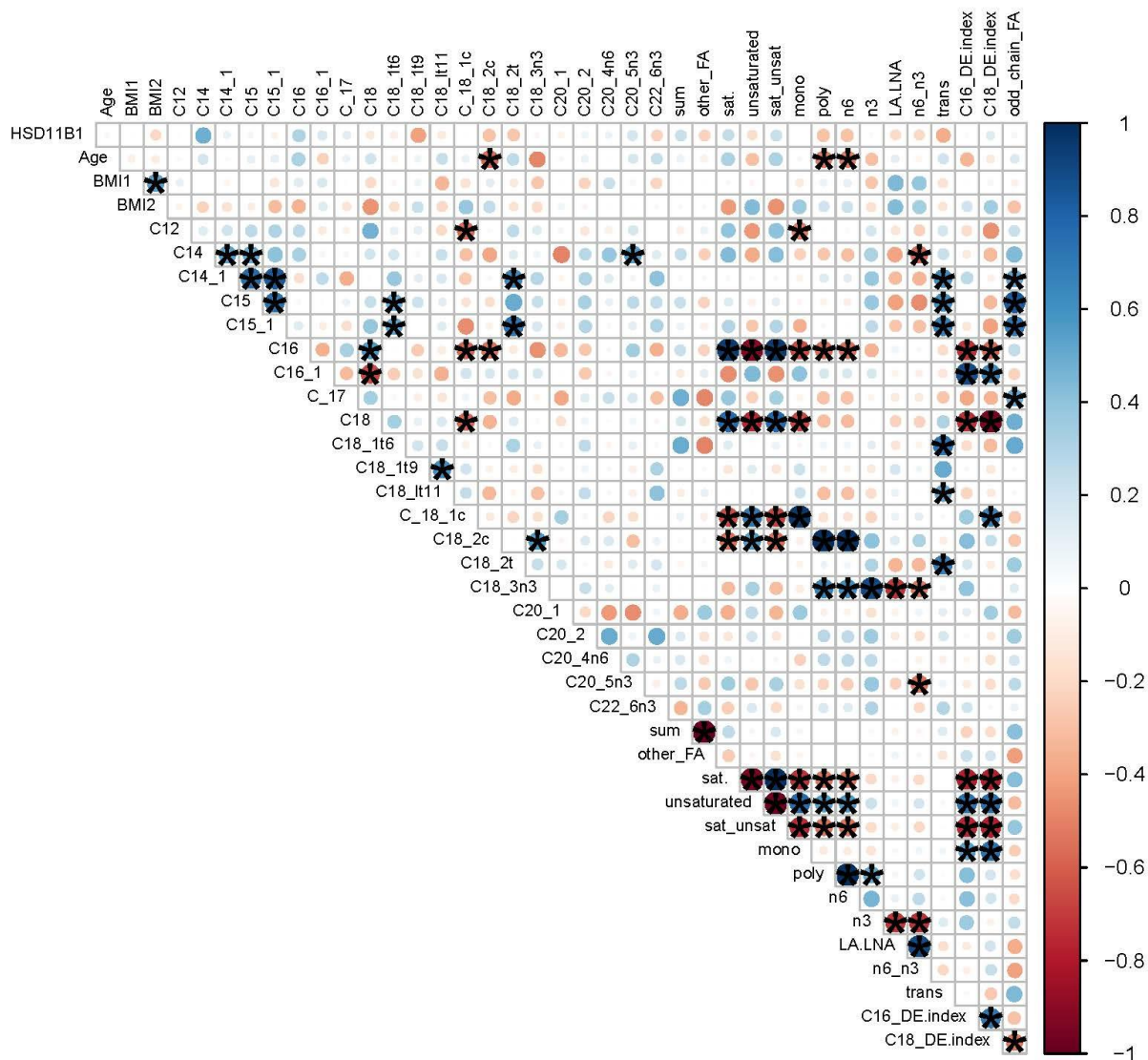
Figure S11.2. Dot plot of correlations between expression of *3BHSD2* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.
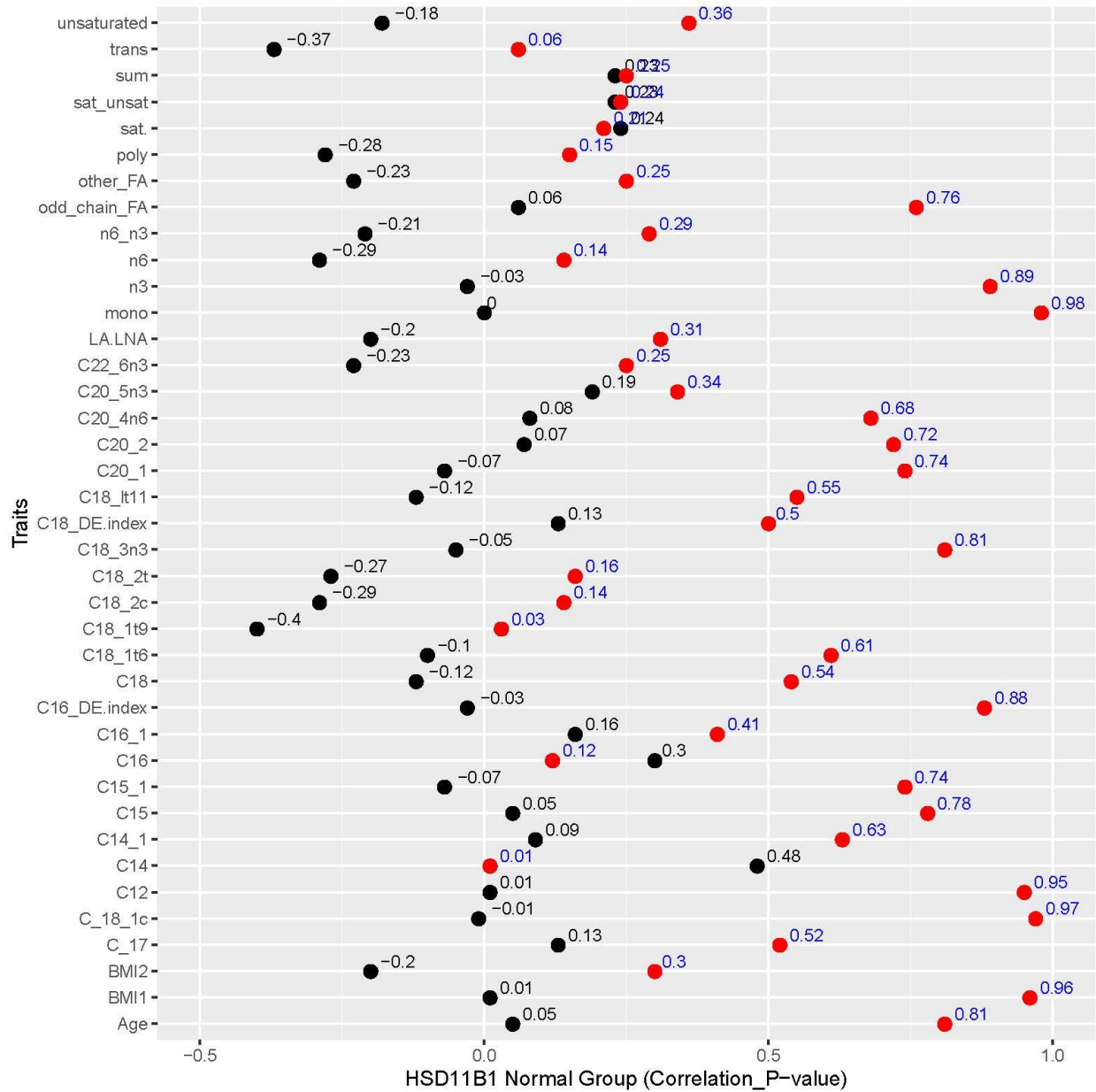
Figure S12.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).

Figure S12.2. Dot plot of correlations between expression of *3BHSD 2* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.

Figure S13.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
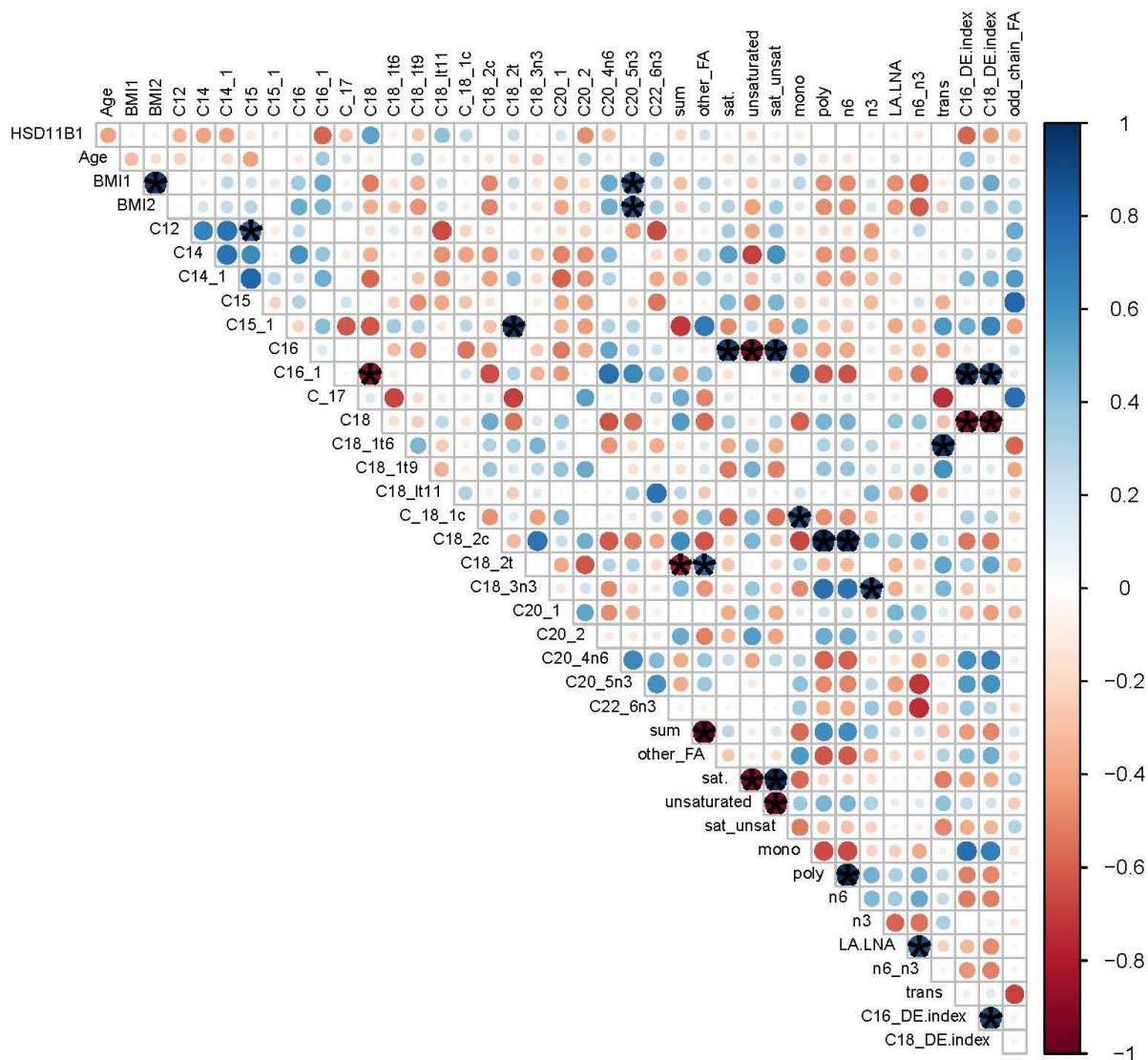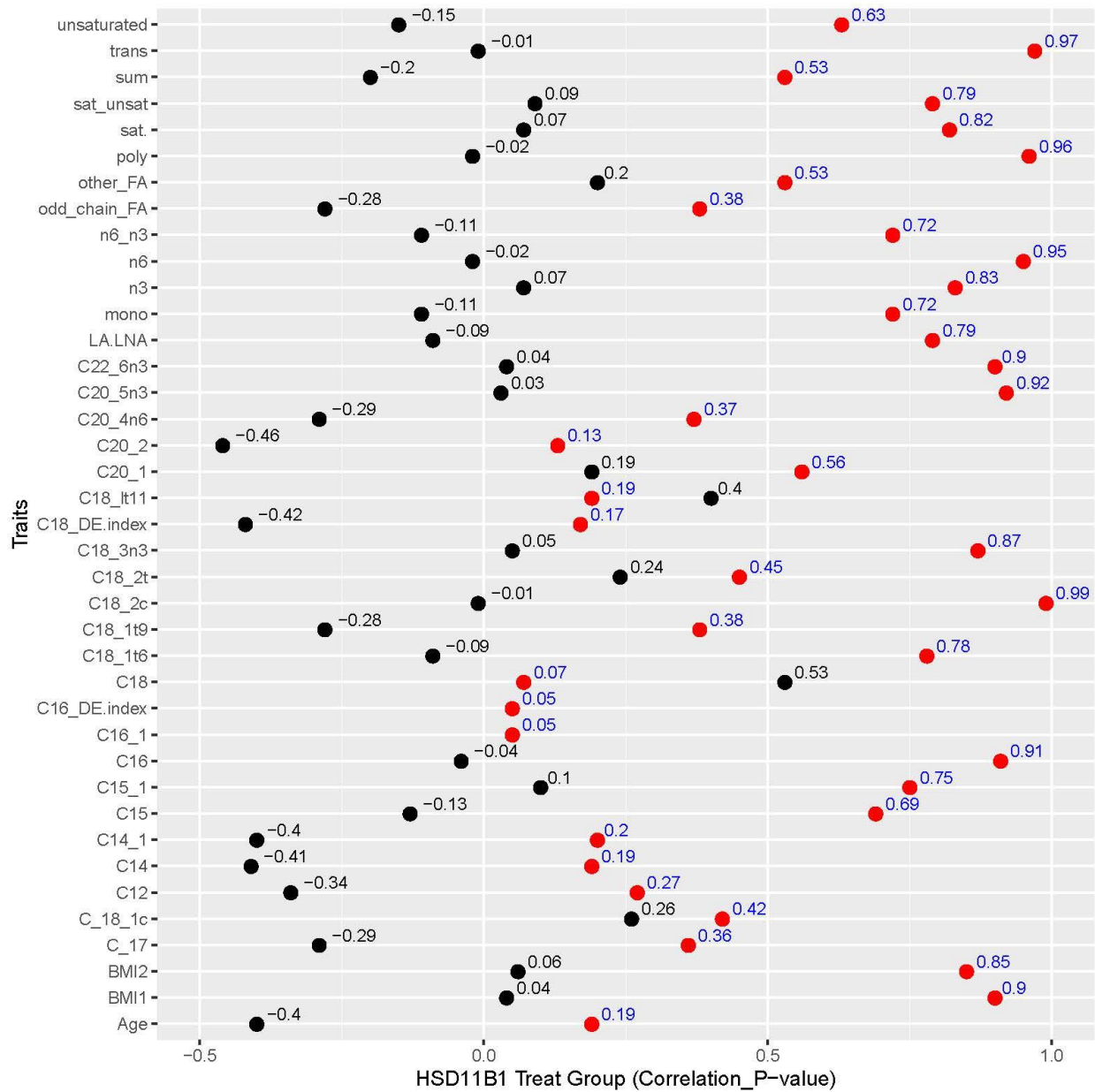
Figure S13.2. Dot plot of correlations between expression of *11BHSD1* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.

Figure S14.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
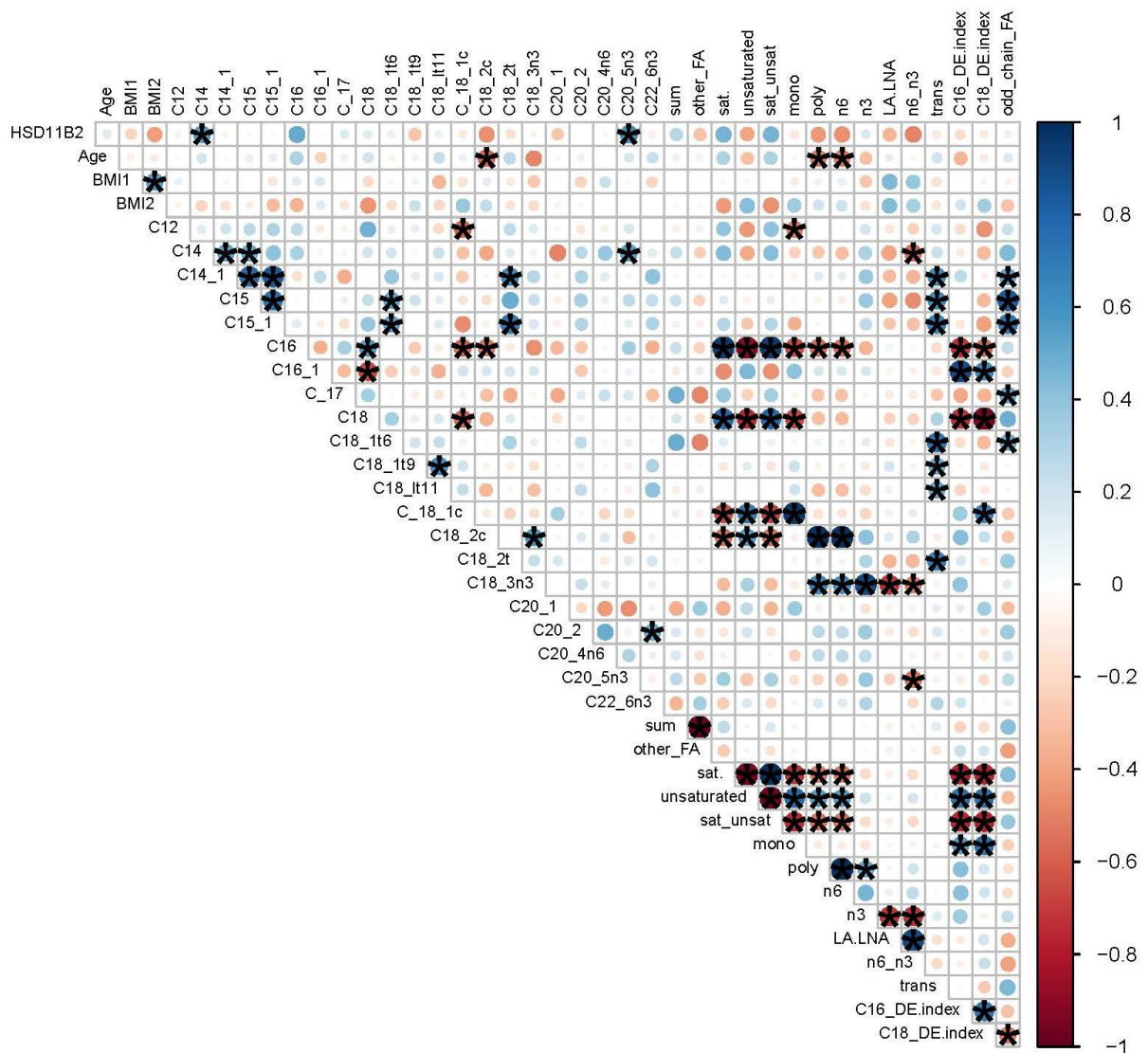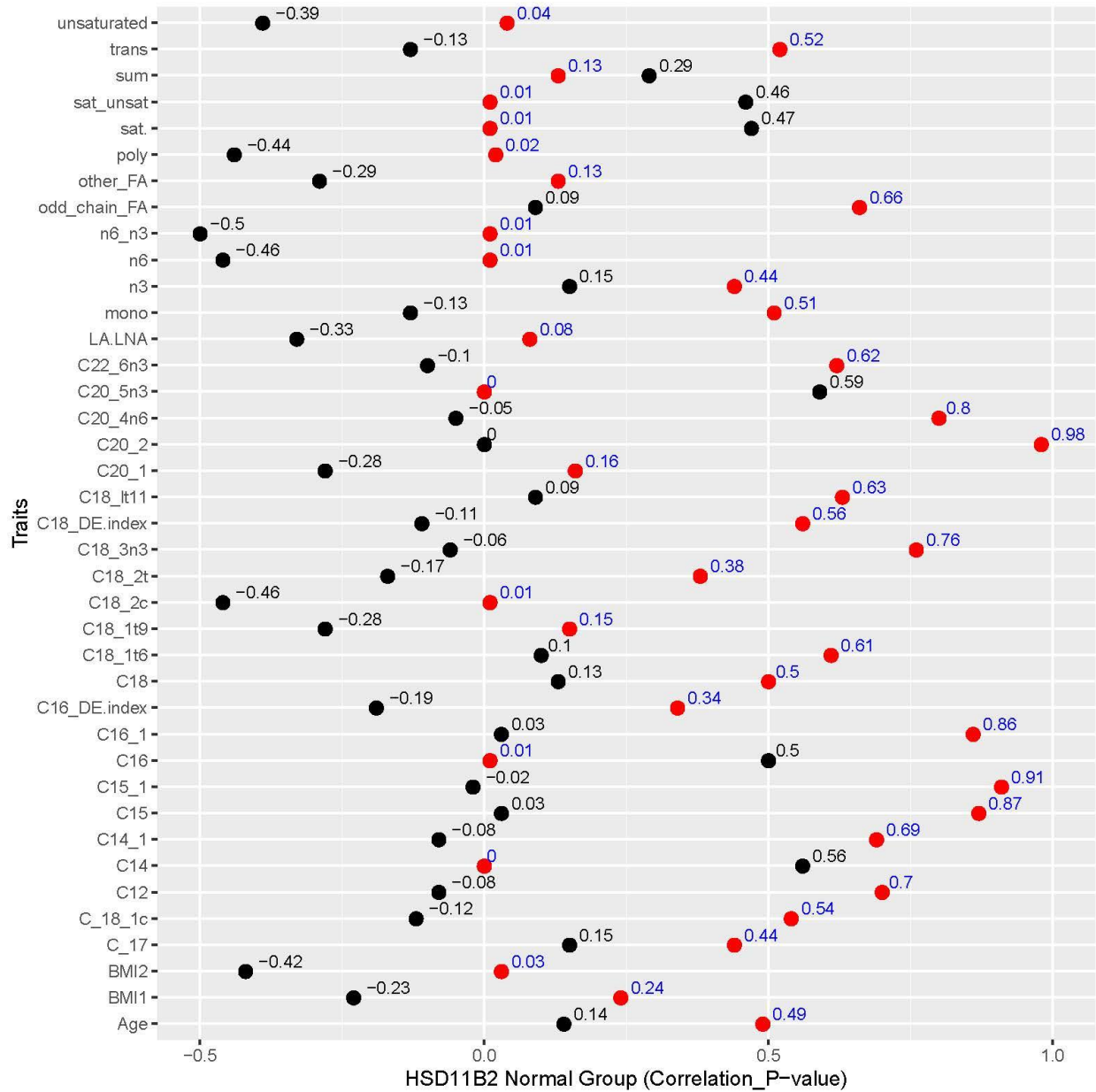
Figure S14.2. Dot plot of correlations between expression of *11BHSD1* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.

Figure S15.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
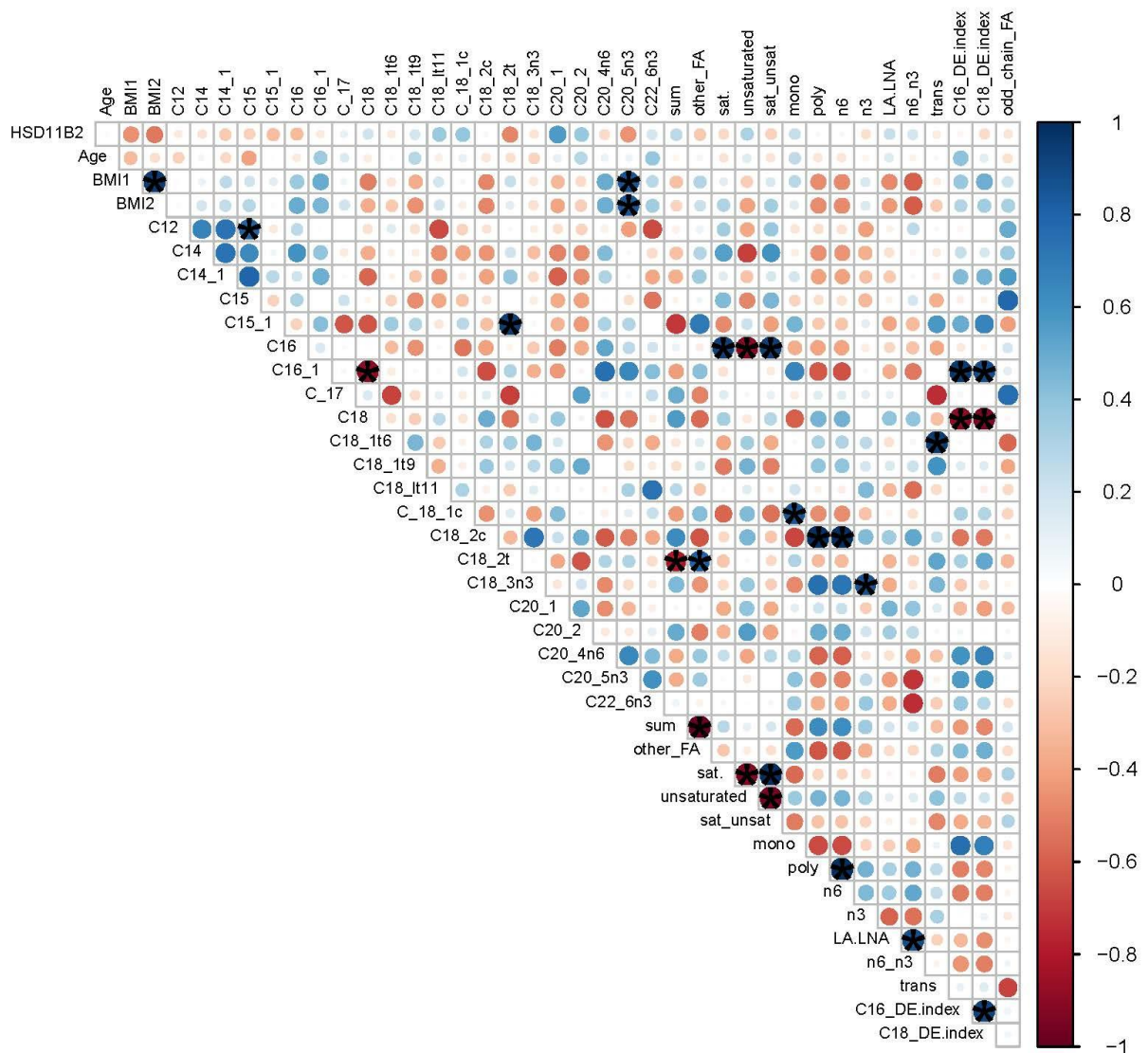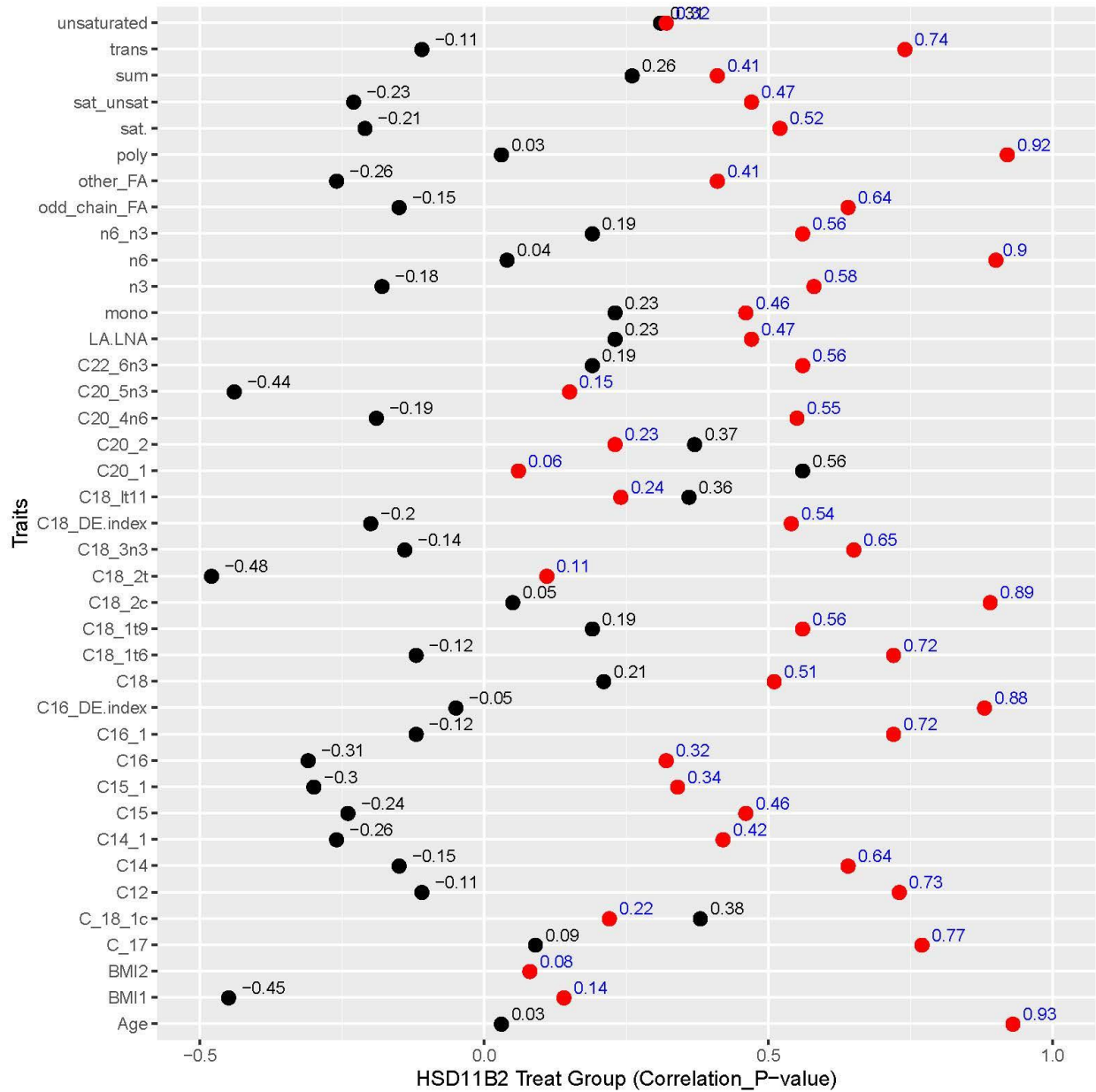
Figure S15.2. Dot plot of correlations between expression of *11BHSD2* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.

Figure S16.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
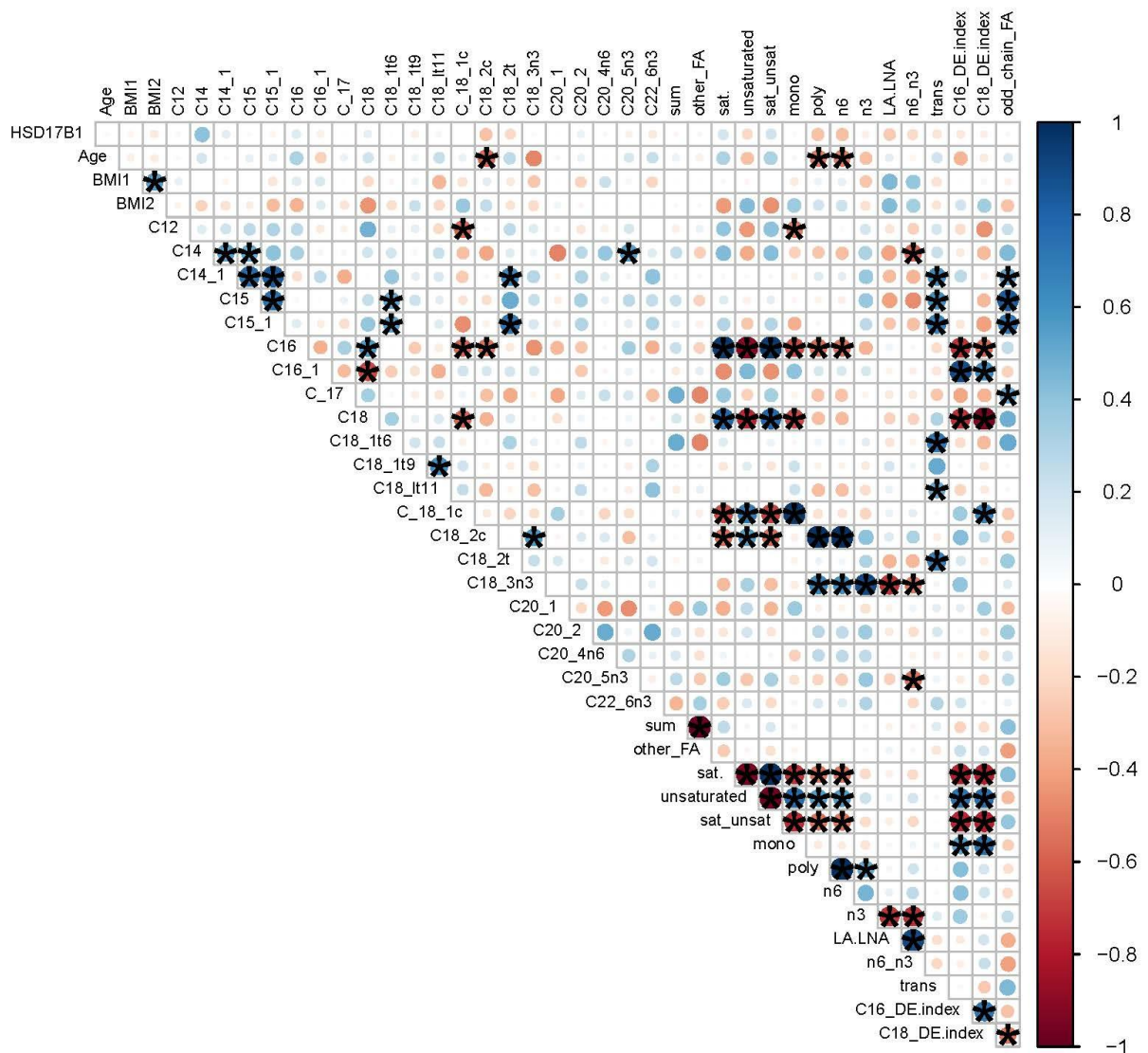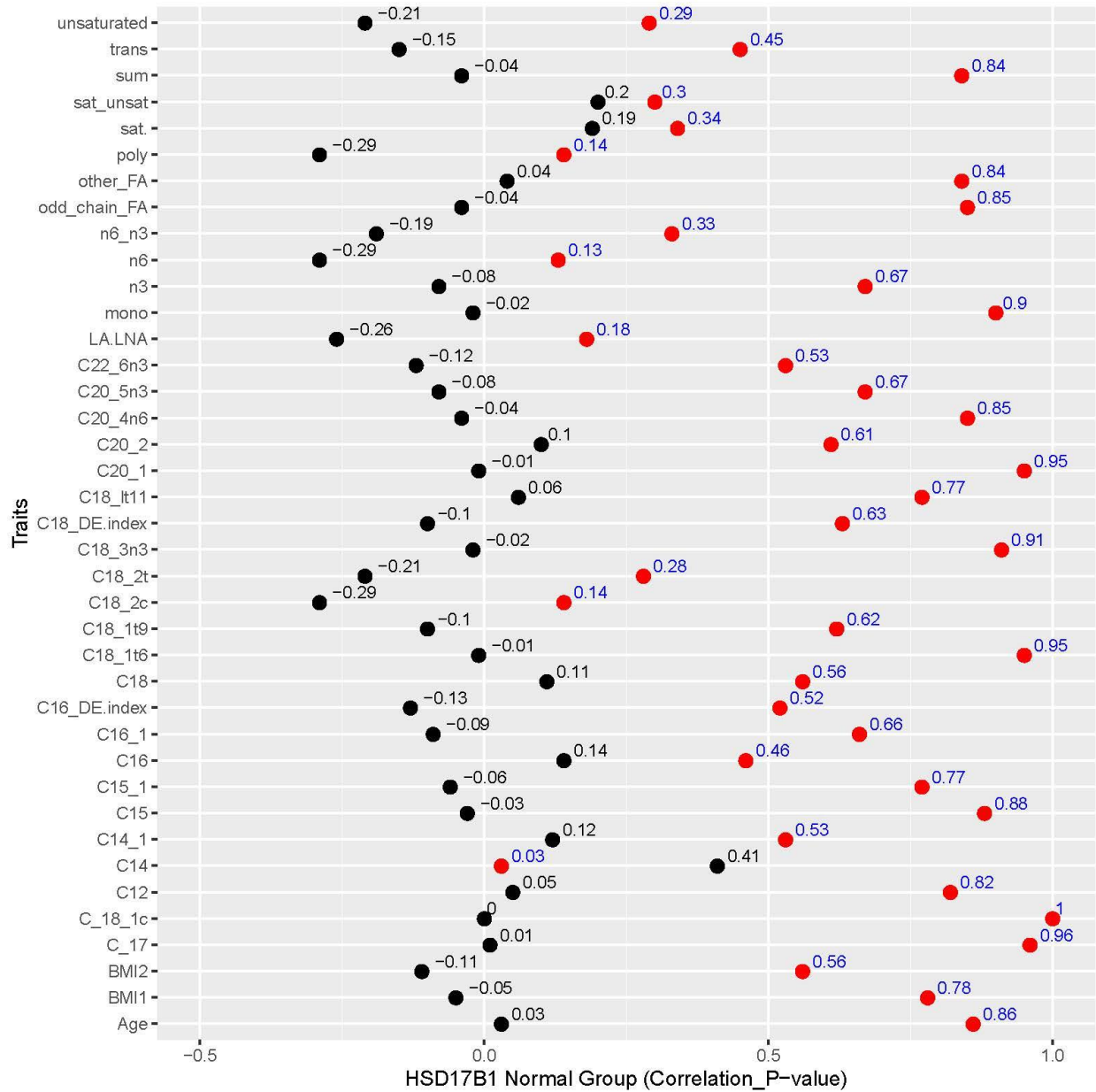
Figure S16.2. Dot plot of correlations between expression of *11BHSD2* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.

Figure S17.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
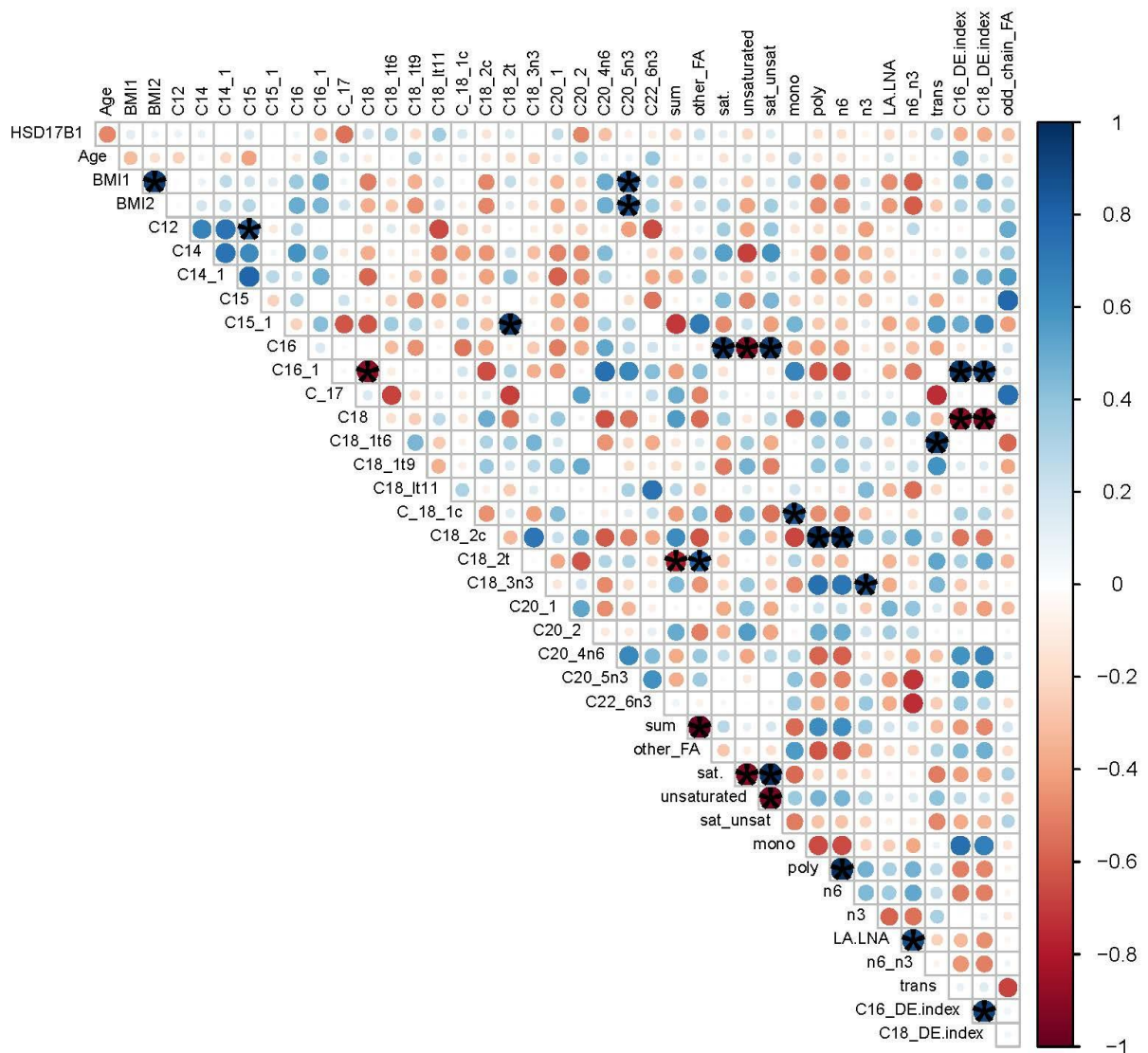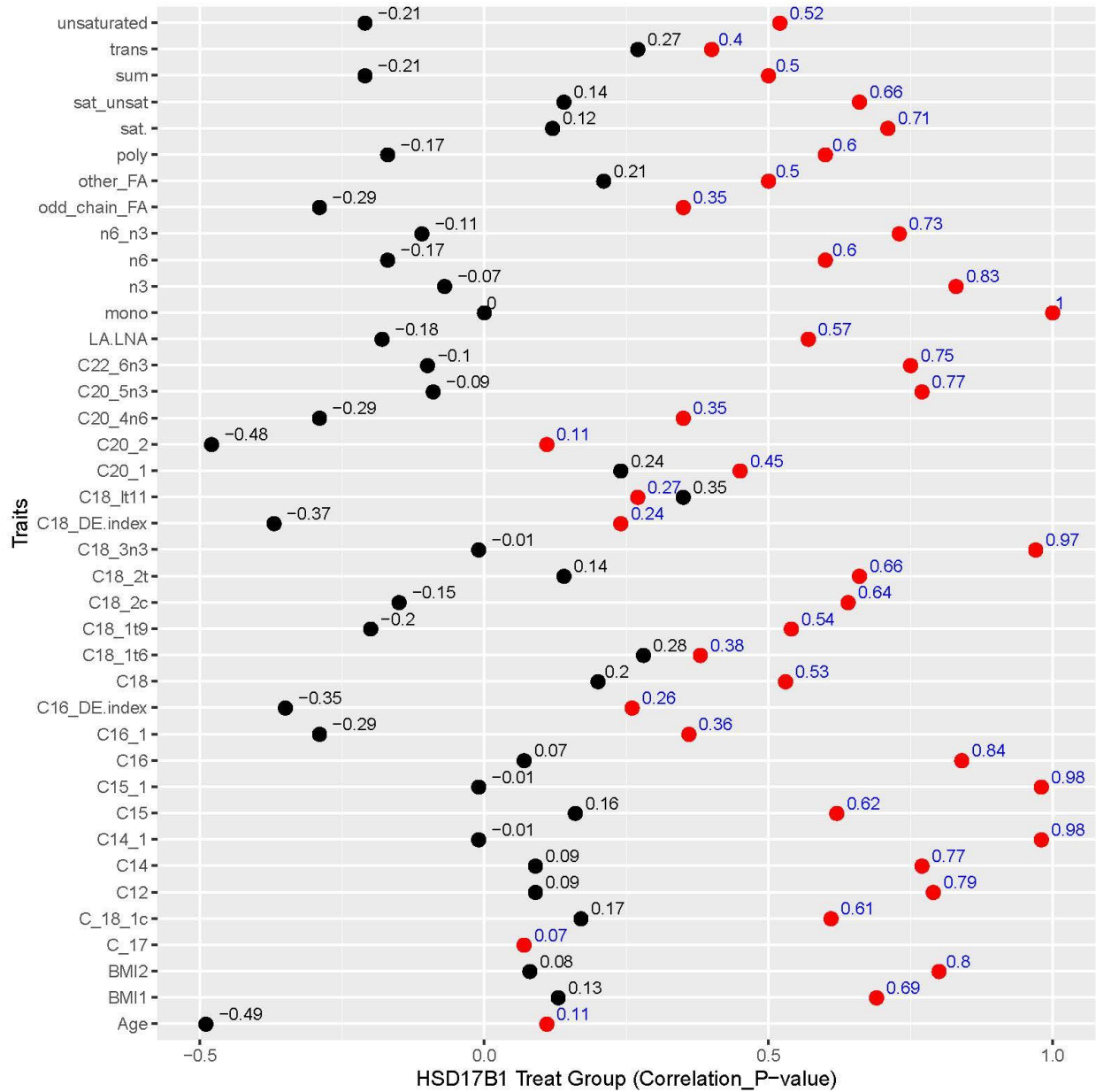
Figure S17.2. Dot plot of correlations between expression of *17BHSD1* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.

Figure S18.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
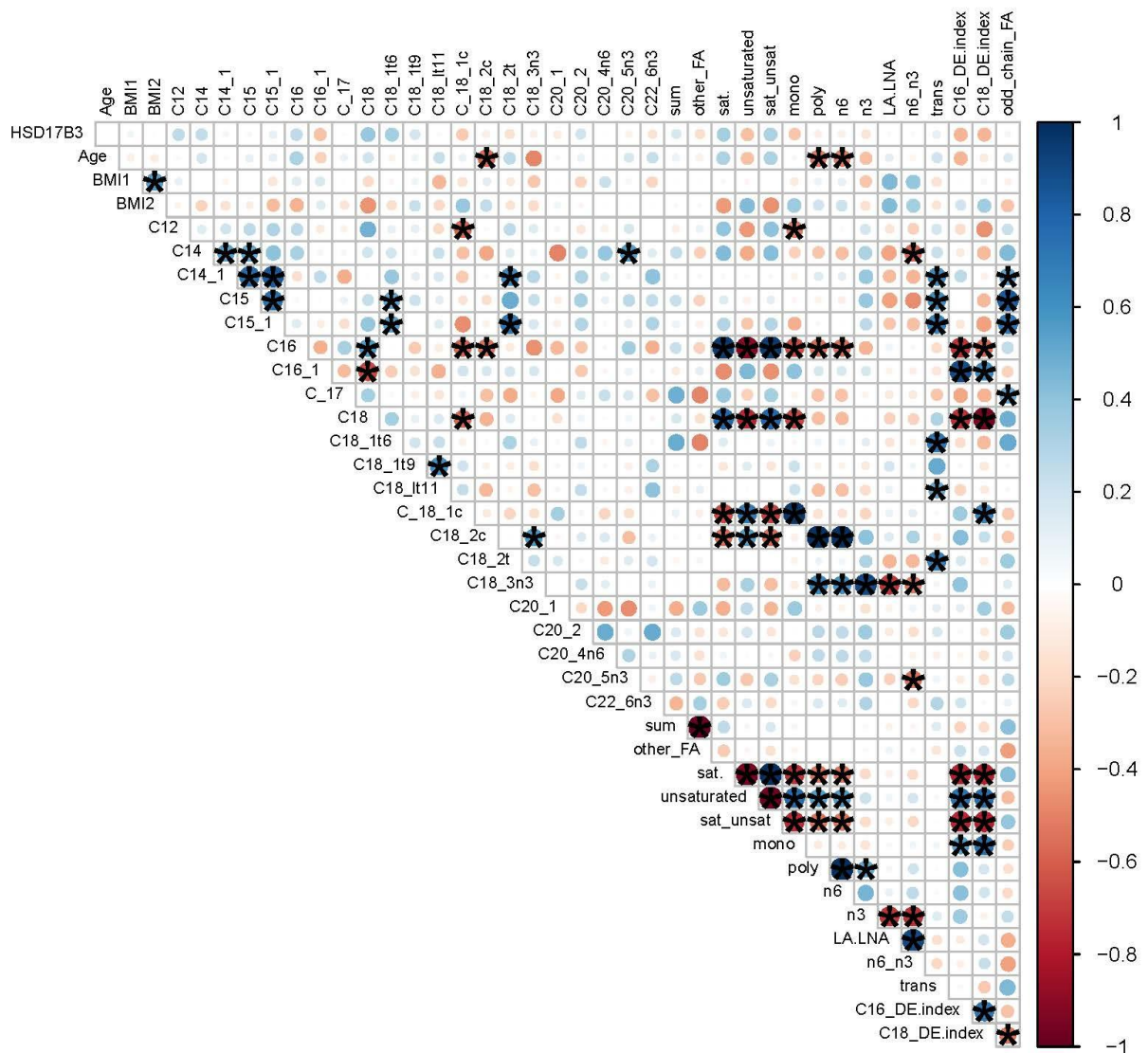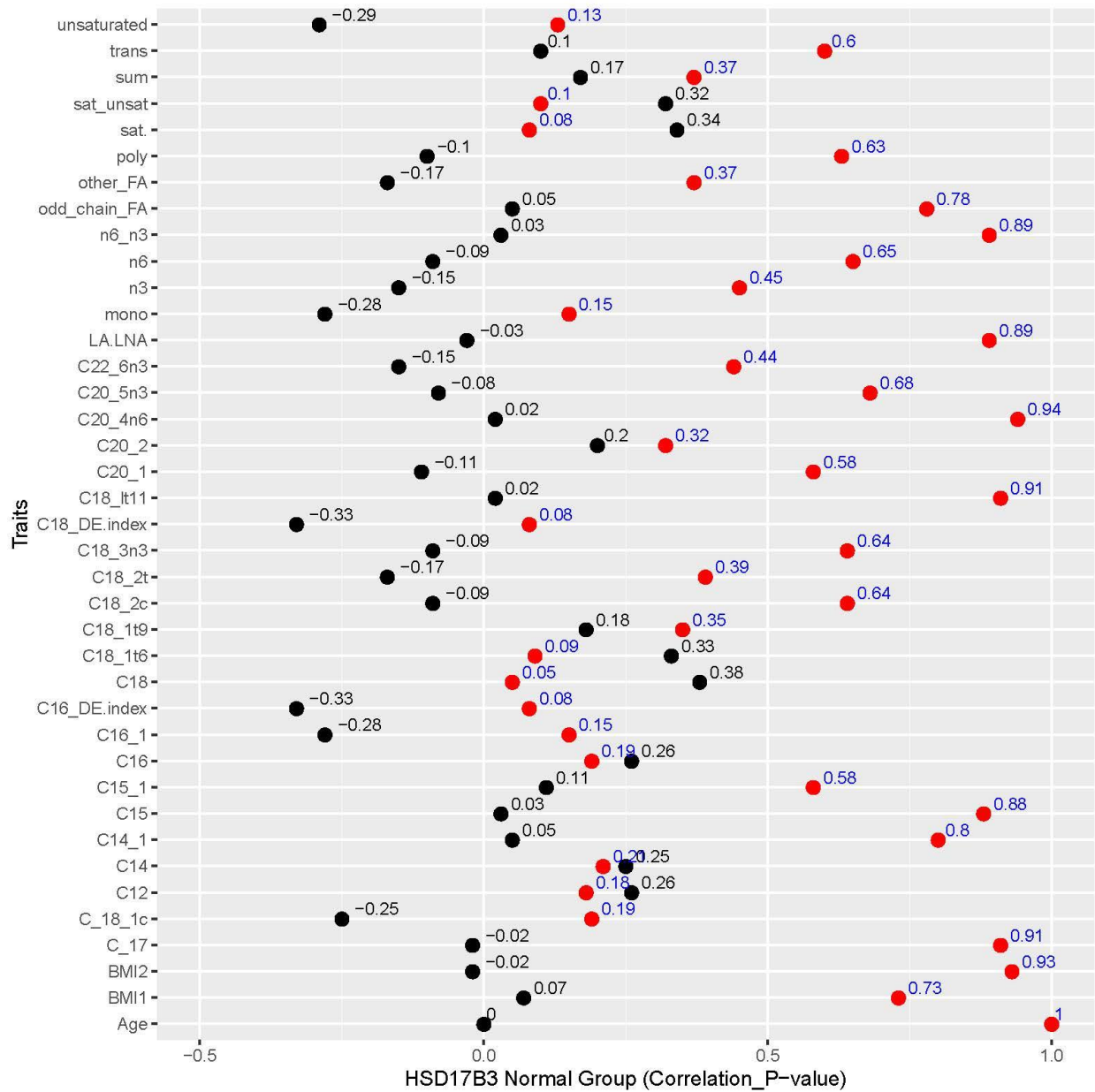
Figure S18.2. Dot plot of correlations between expression of *17BHSD1* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.

Figure S19.1. Heat Plot of pairwise correlation among different traits in non-PCOS women.
Star indicates the significant correlations. Color of the circles indicates the value of the correlations
(blue positive and red negative). Size of the circles indicate the significance of the correlations
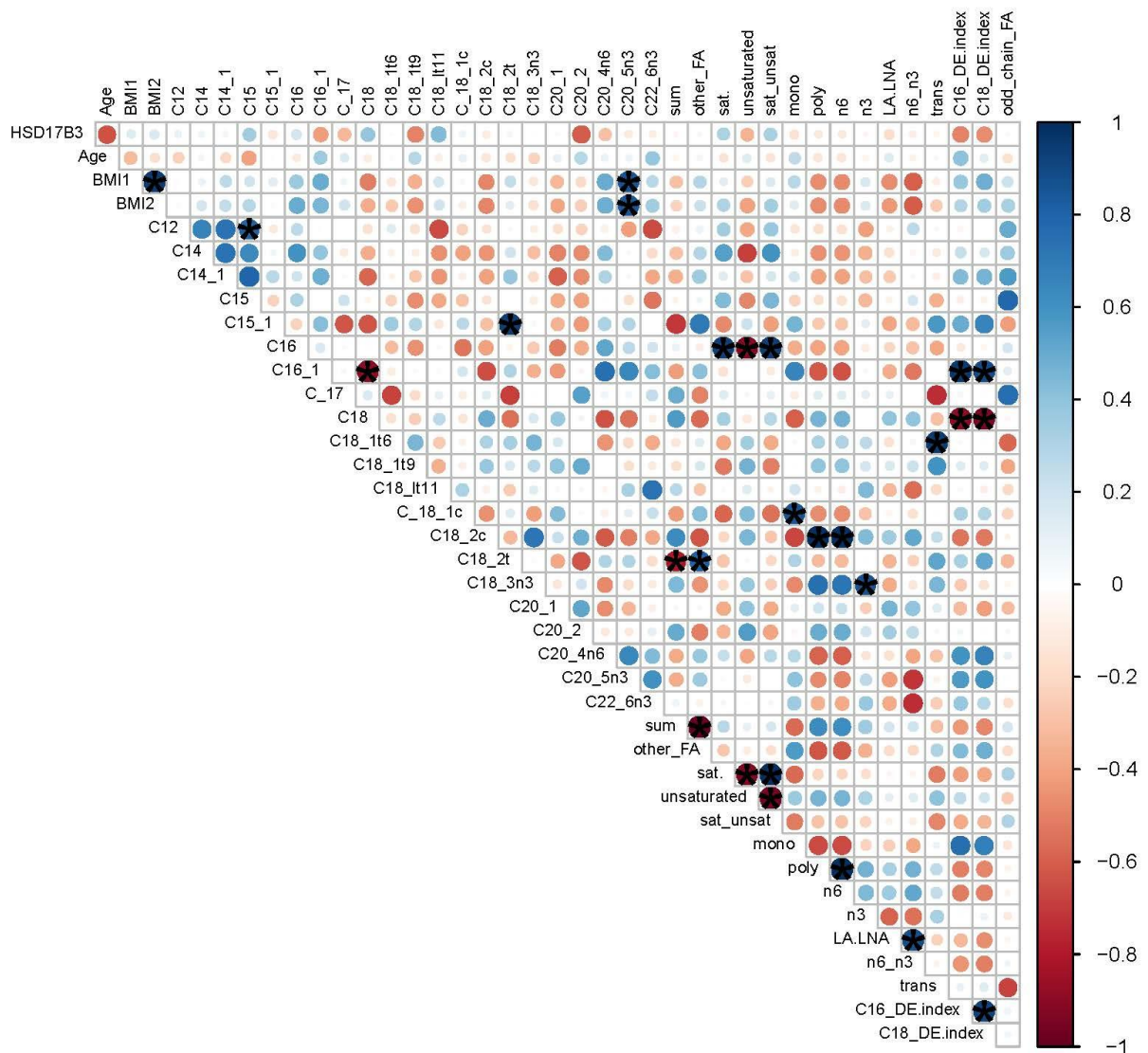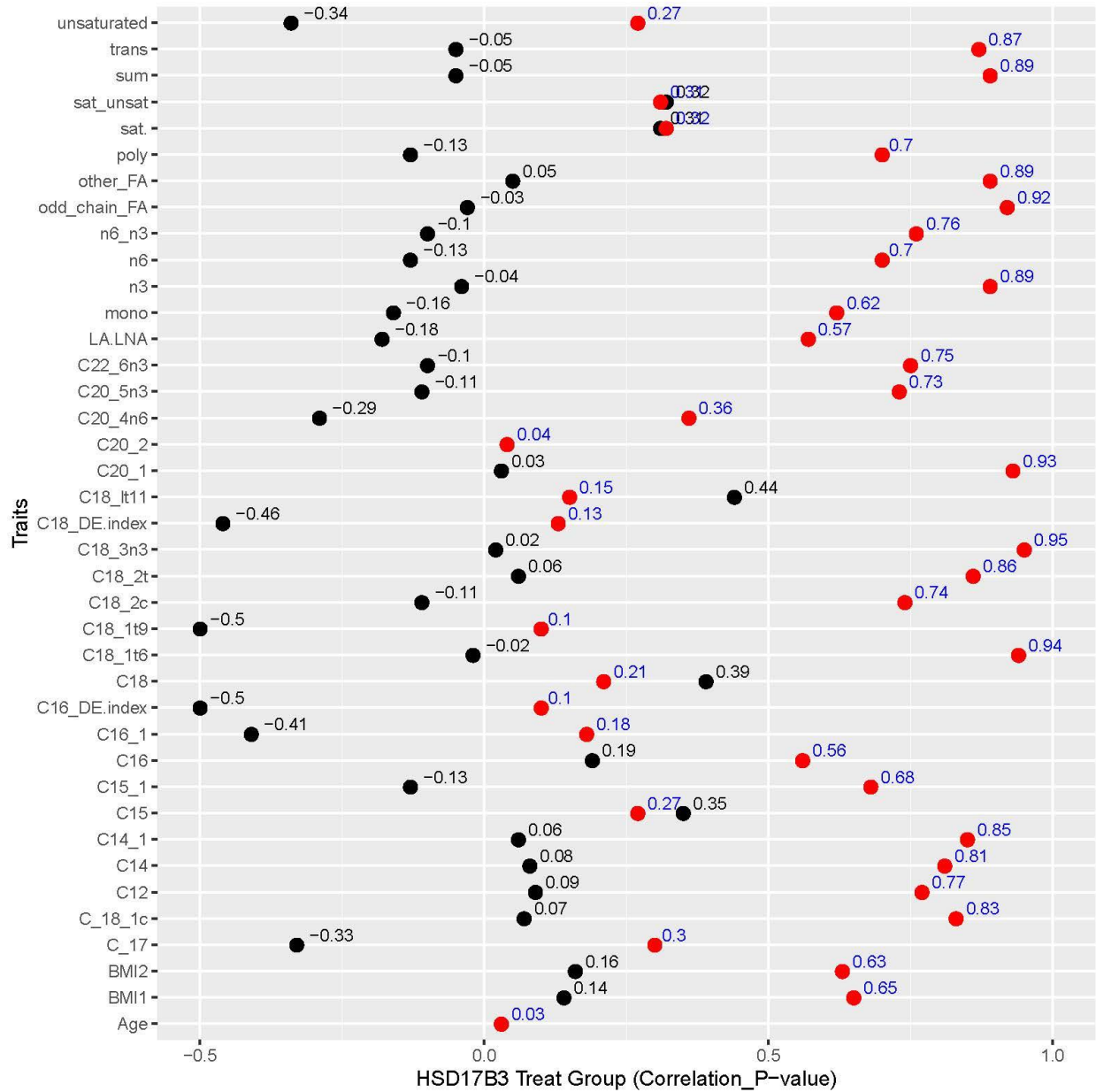(larger means more significant).

Figure S19.2. Dot plot of correlations between expression of *17BHSD3* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.

Figure S20.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
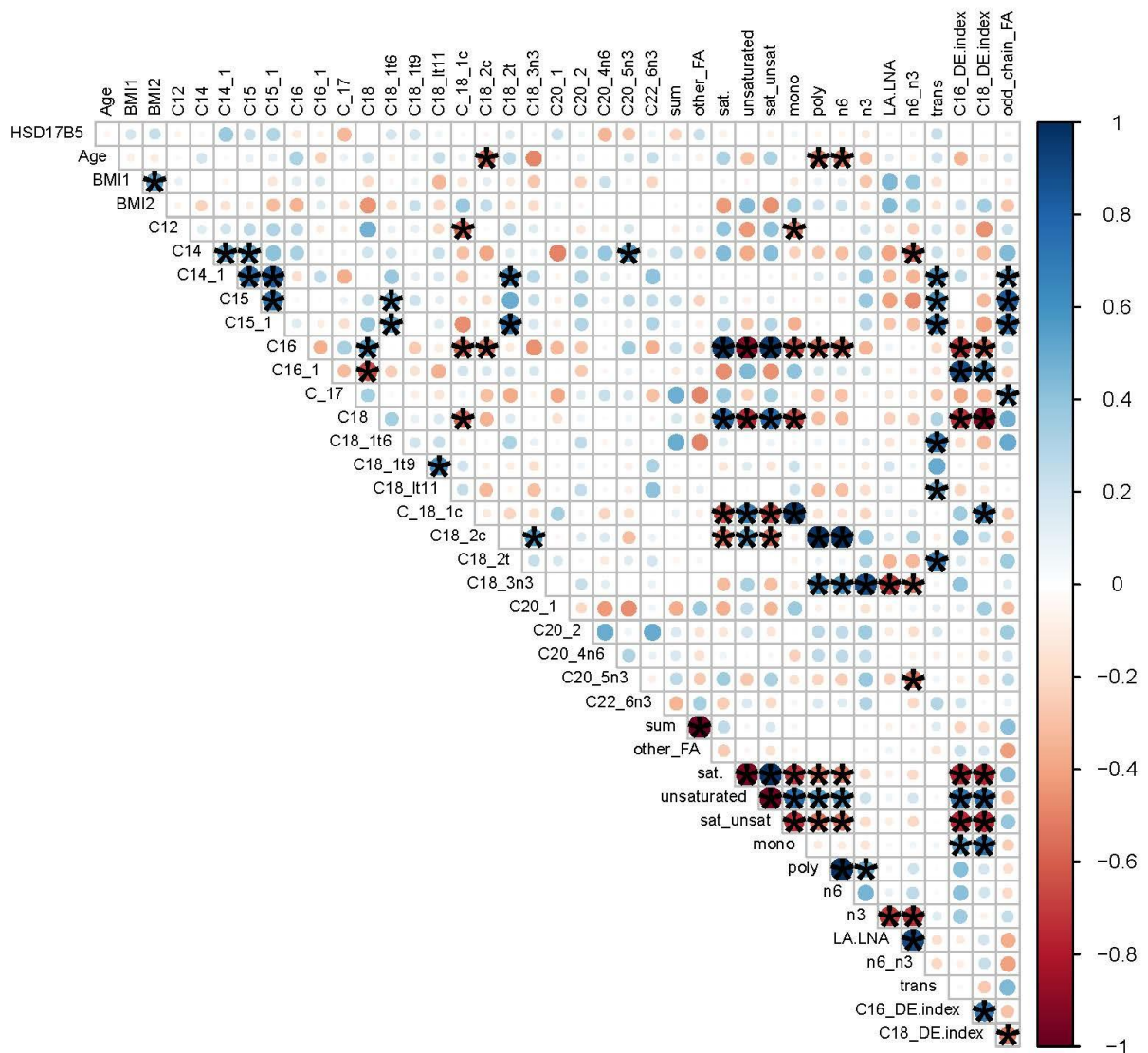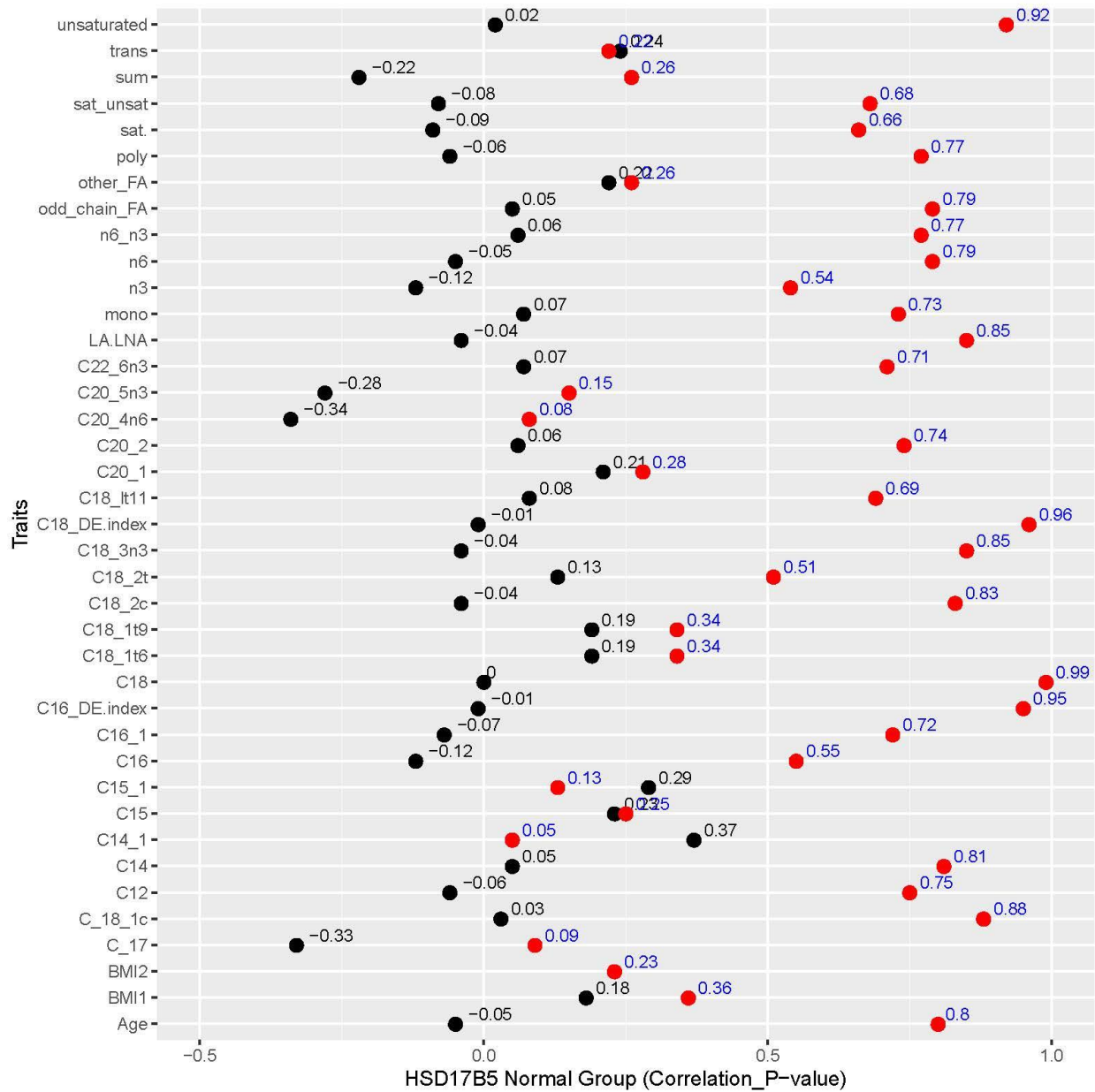
Figure S20.2. Dot plot of correlations between expression of *17BHSD3* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.

Figure S21.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
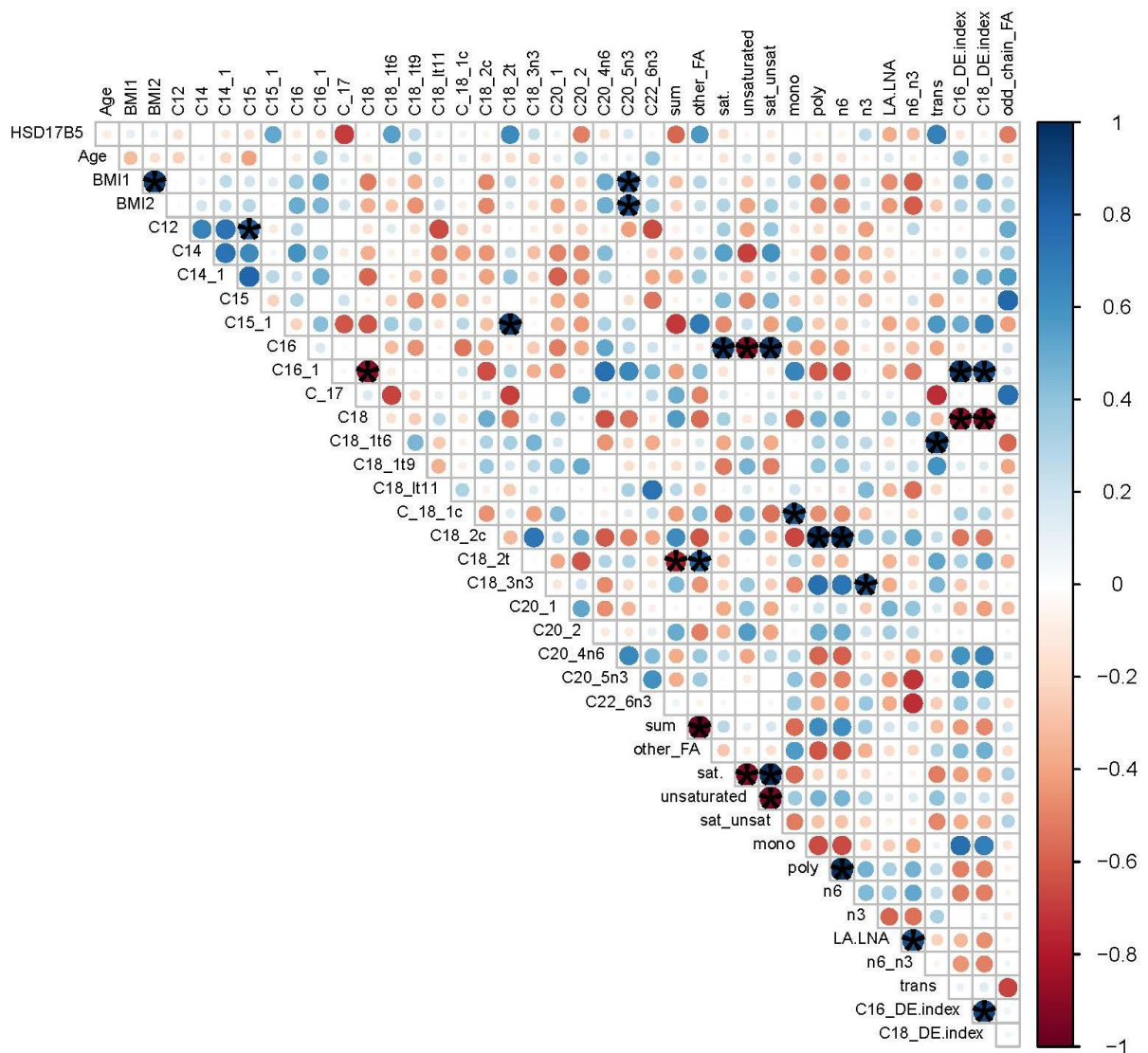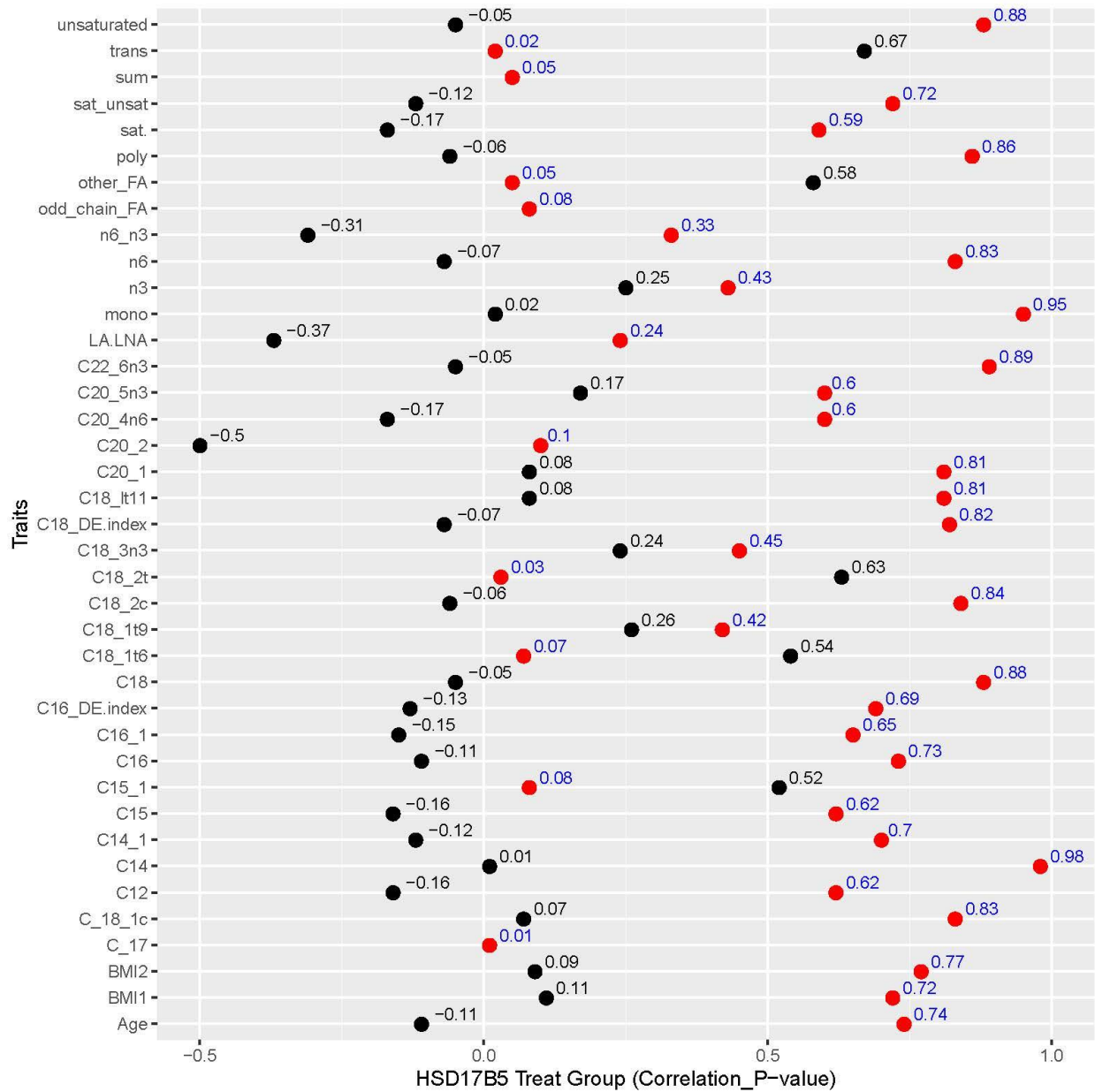
Figure S21.2. Dot plot of correlations between expression of *17BHSD5* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.

Figure S22.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
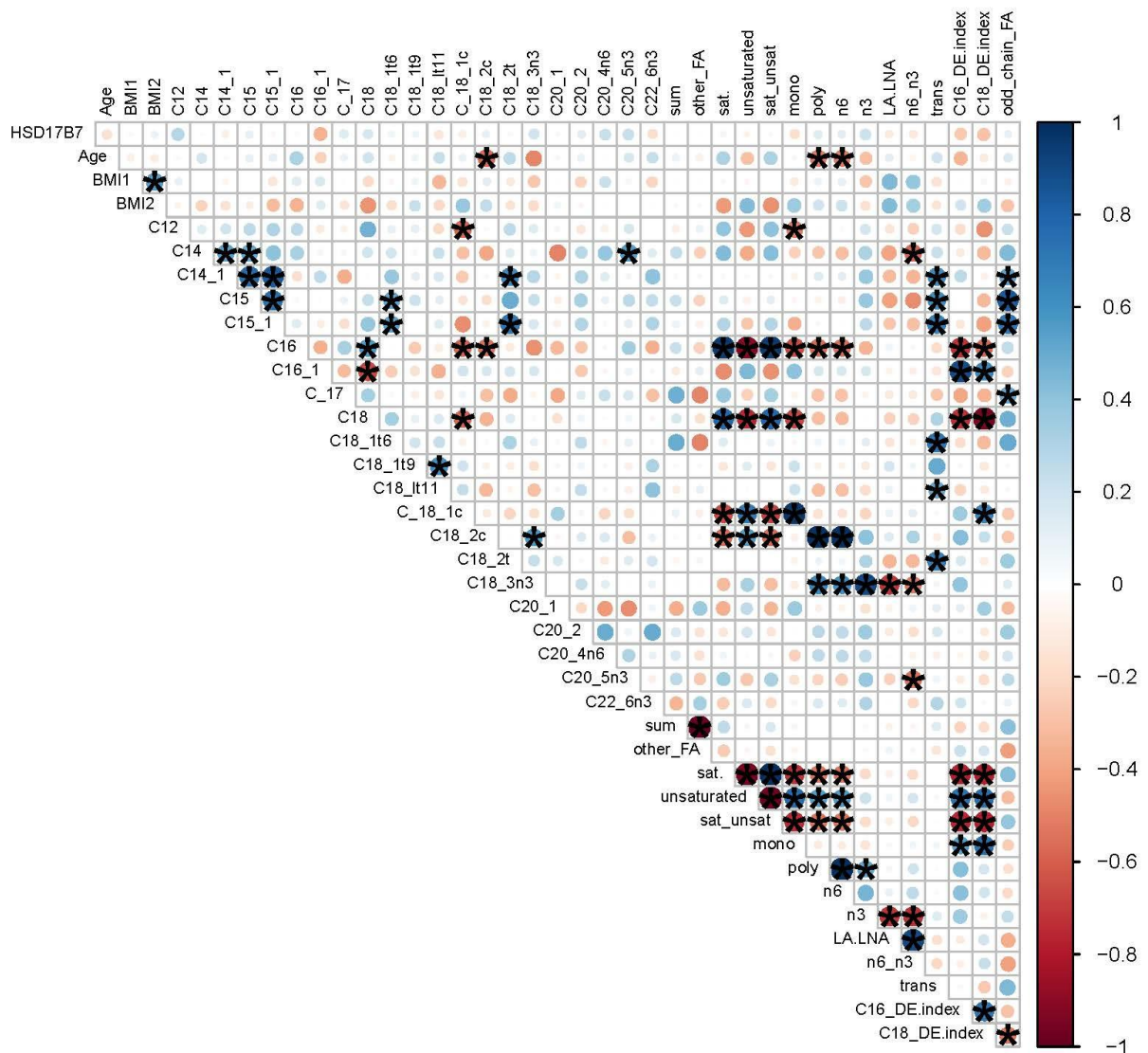
Figure S22.2. Dot plot of correlations between expression of *17BHSD5* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.
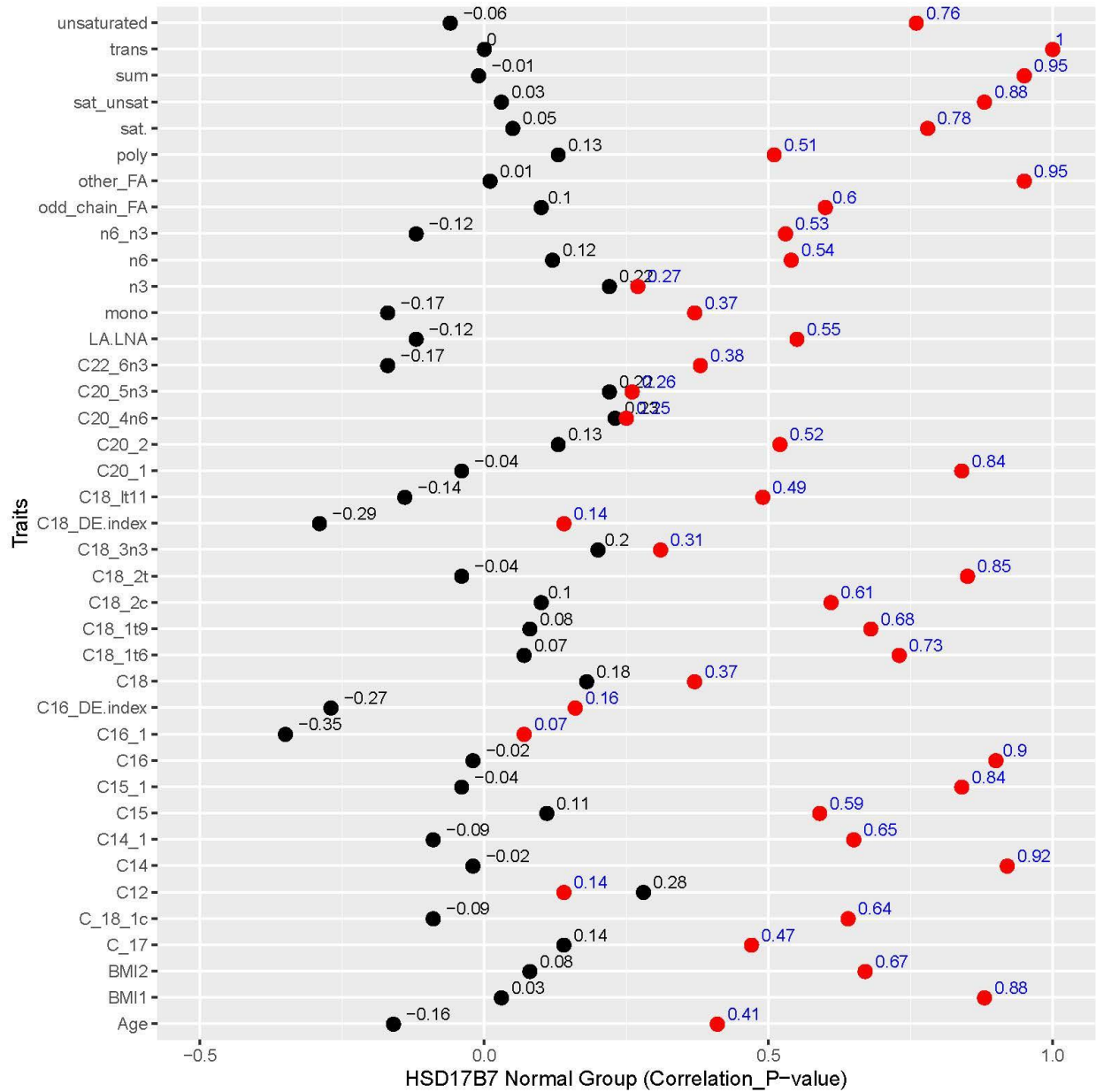
Figure S23.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
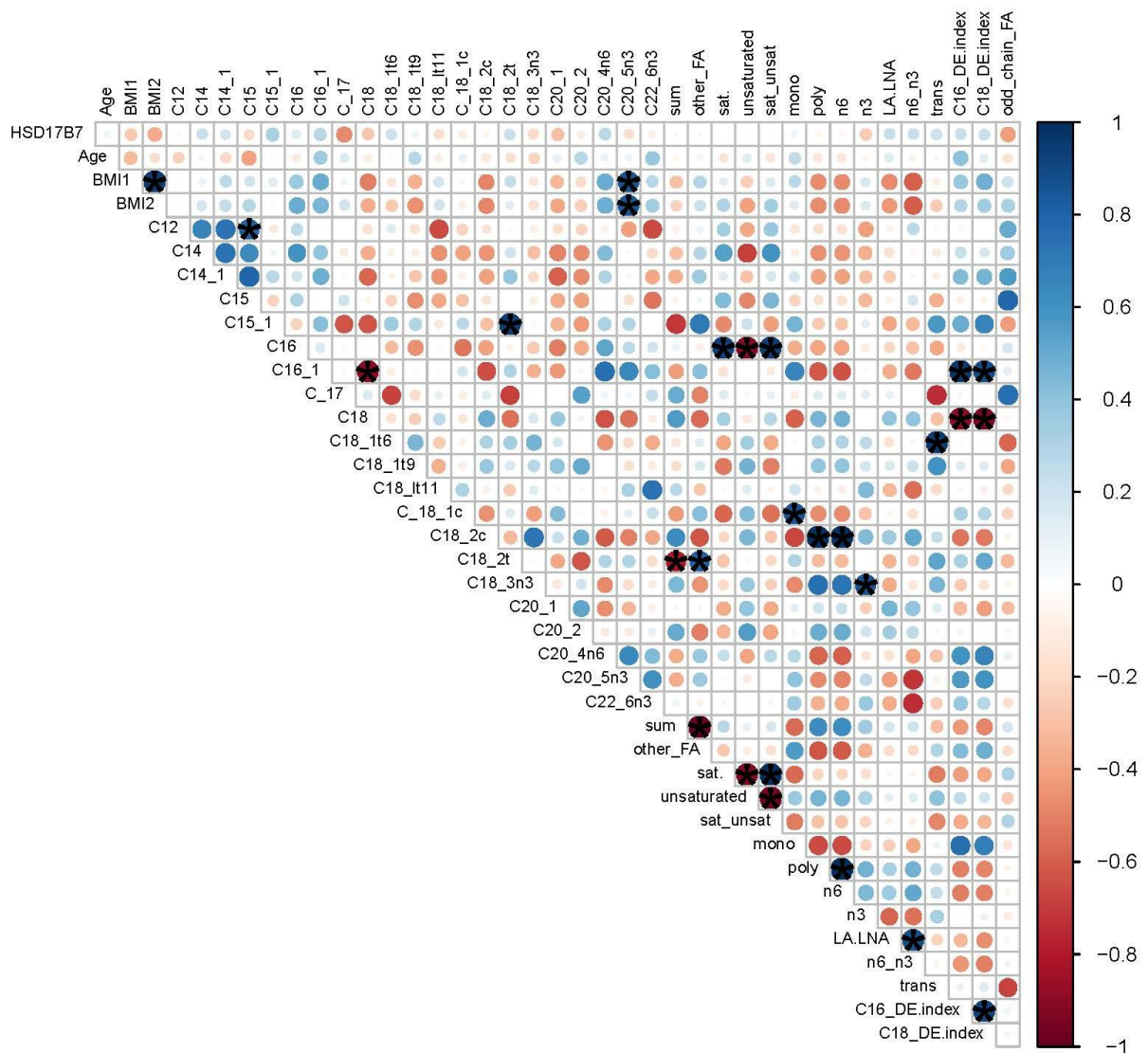
Figure S23.2. Dot plot of correlations between expression of *17BHSD7* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.
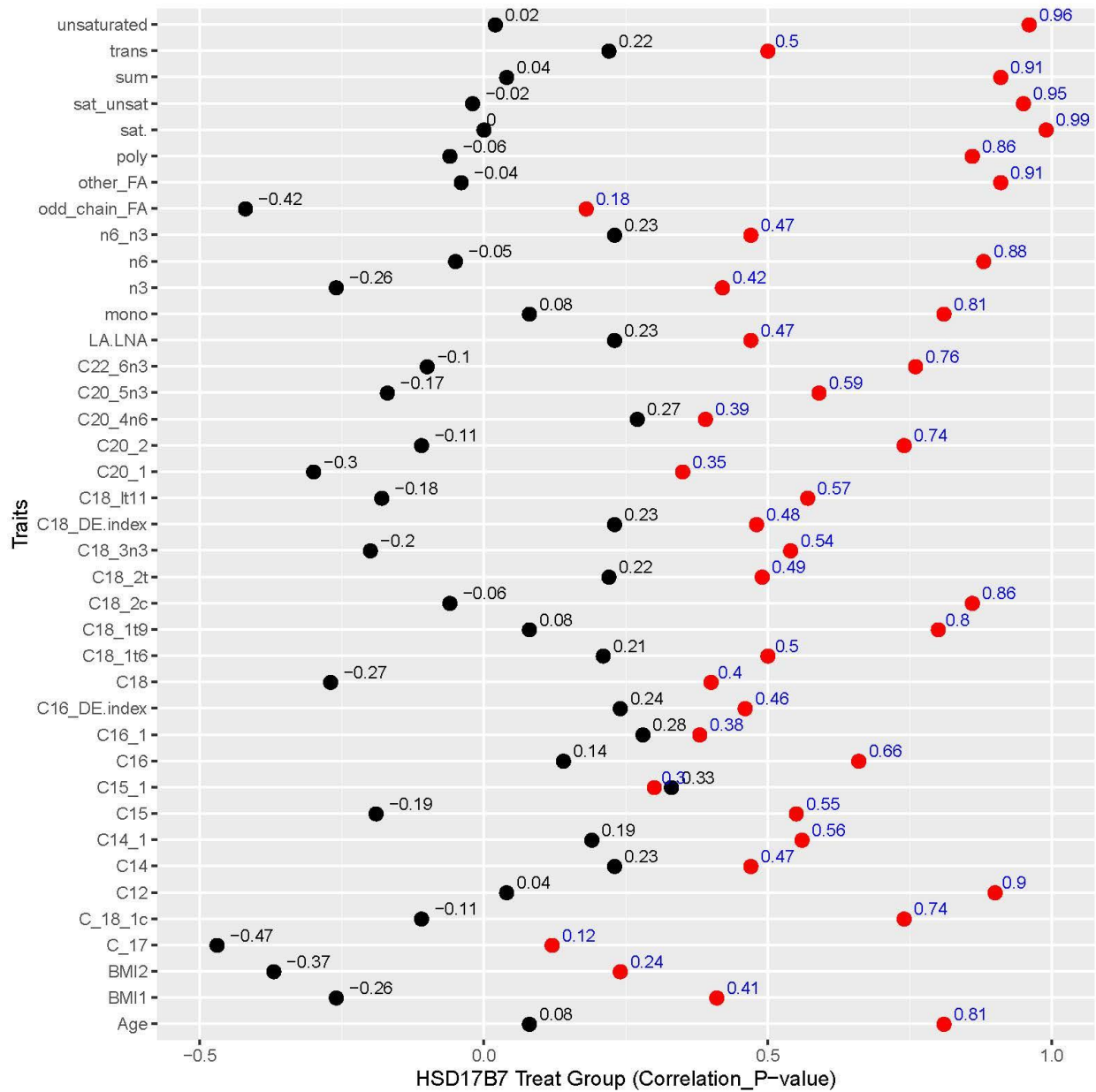
Figure S24.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
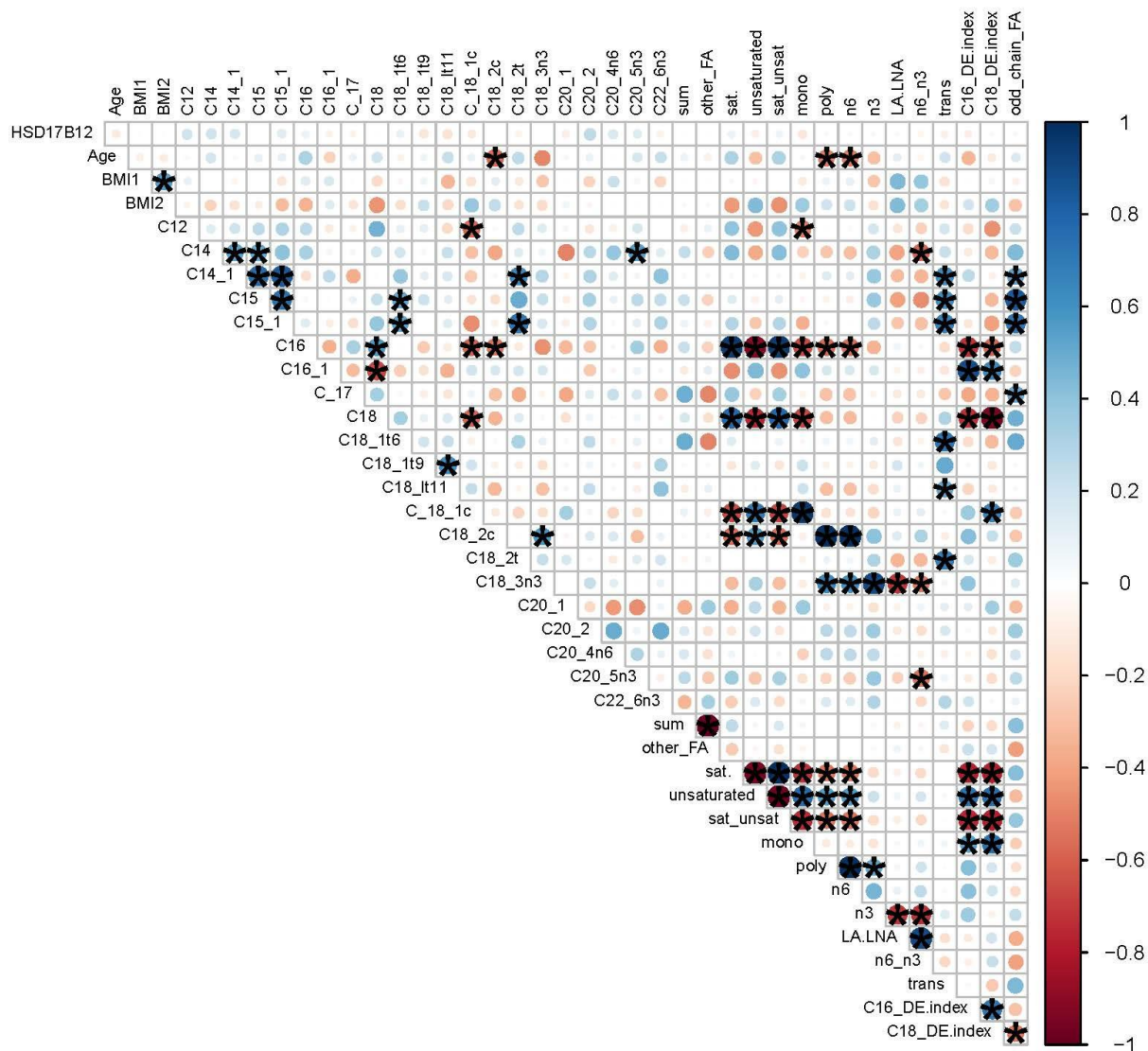
Figure S24.2. Dot plot of correlations between expression of *17BHSD7* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.
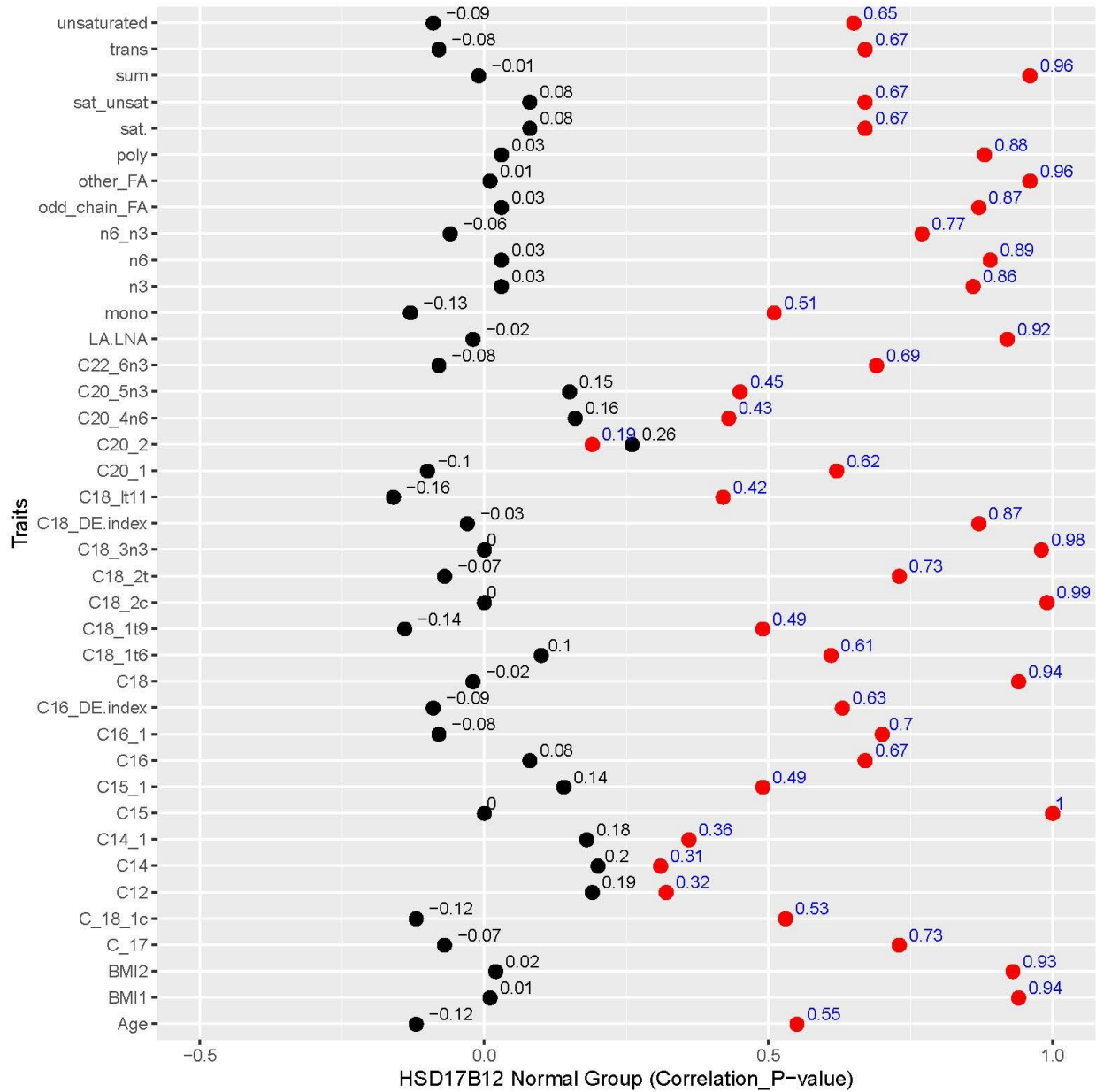
Figure S25.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
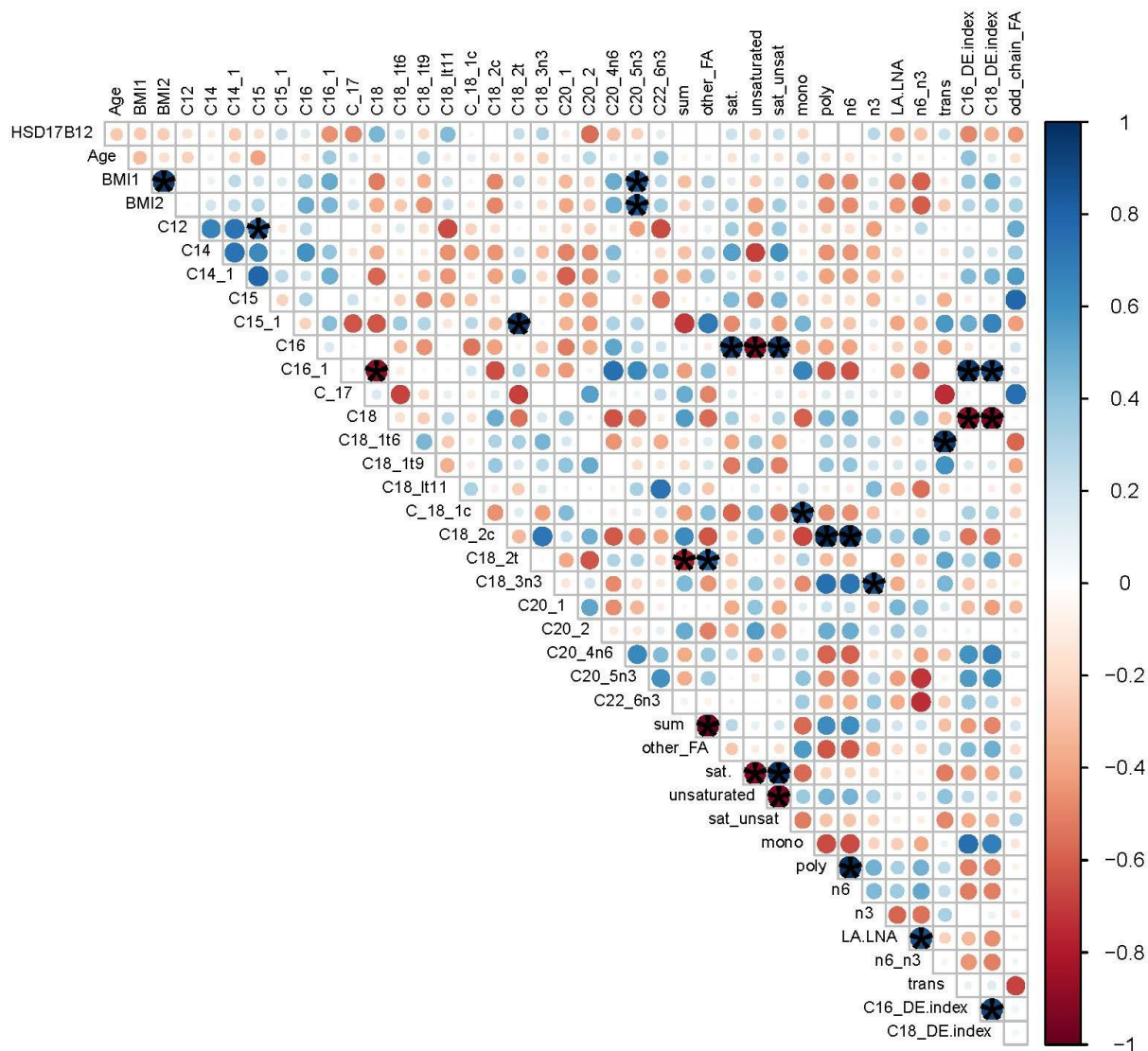
Figure S25.2. Dot plot of correlations between expression of *17BHSD12* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.
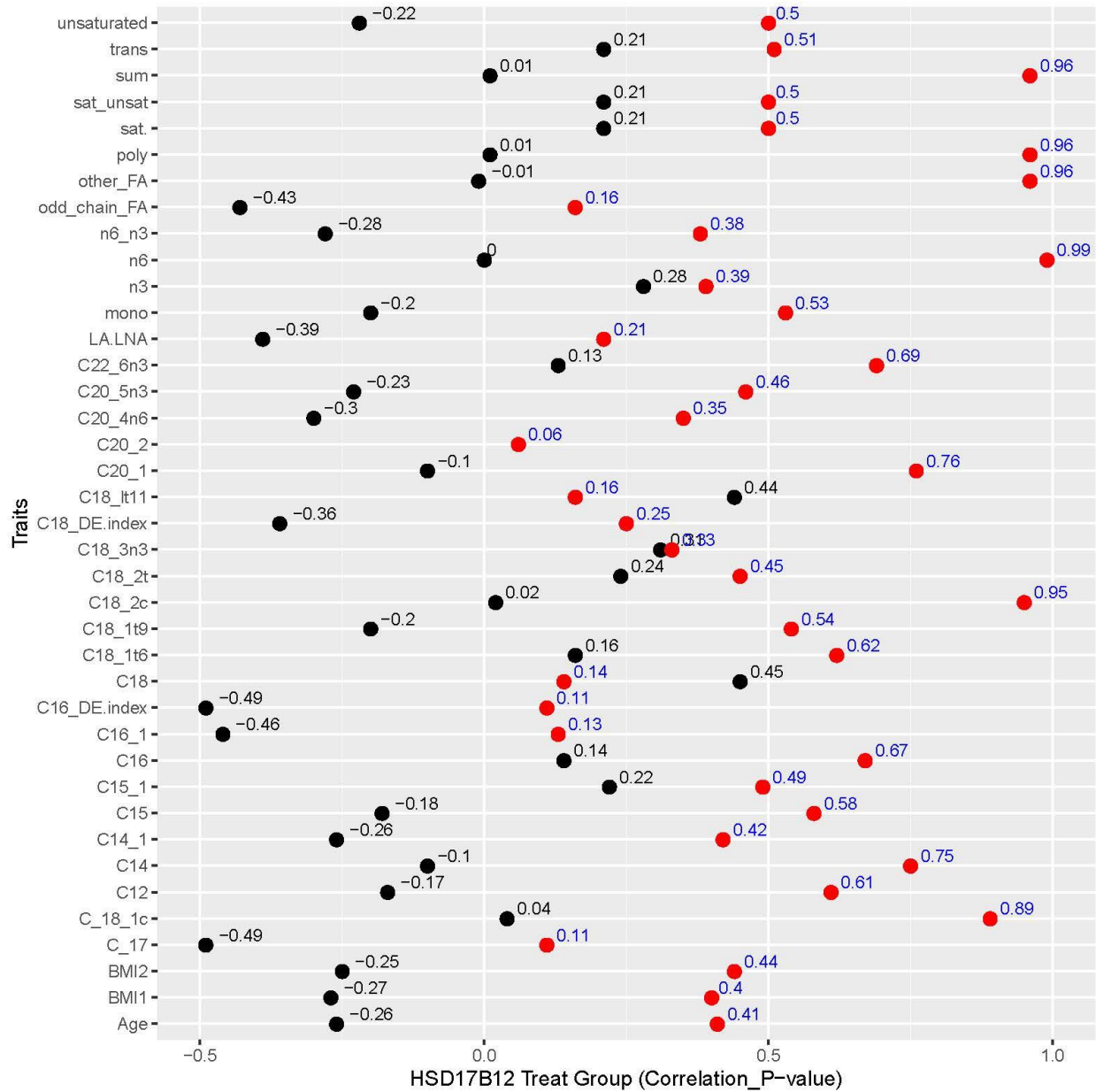
Figure S26.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
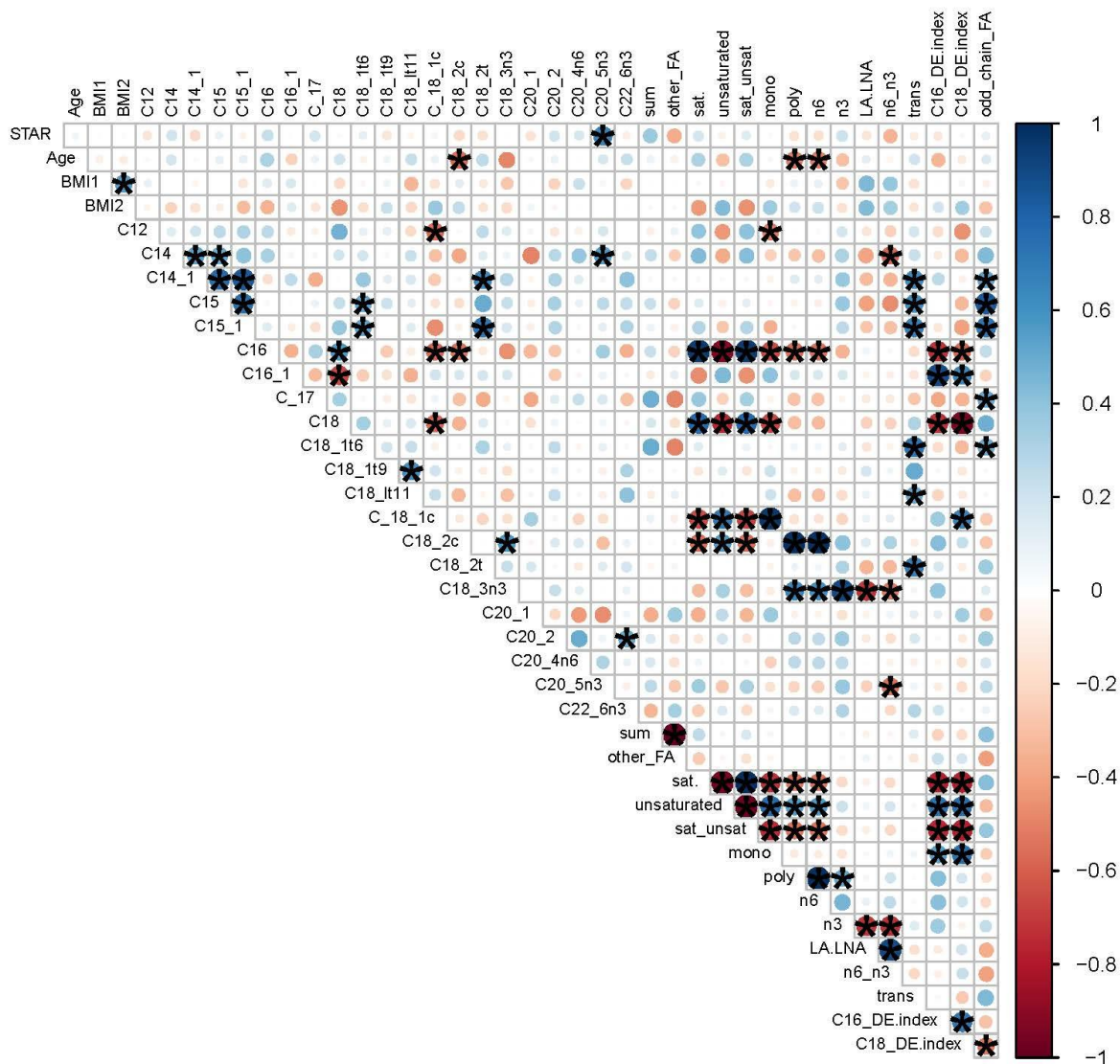
Figure S26.2. Dot plot of correlations between expression of *17BHSD12* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.
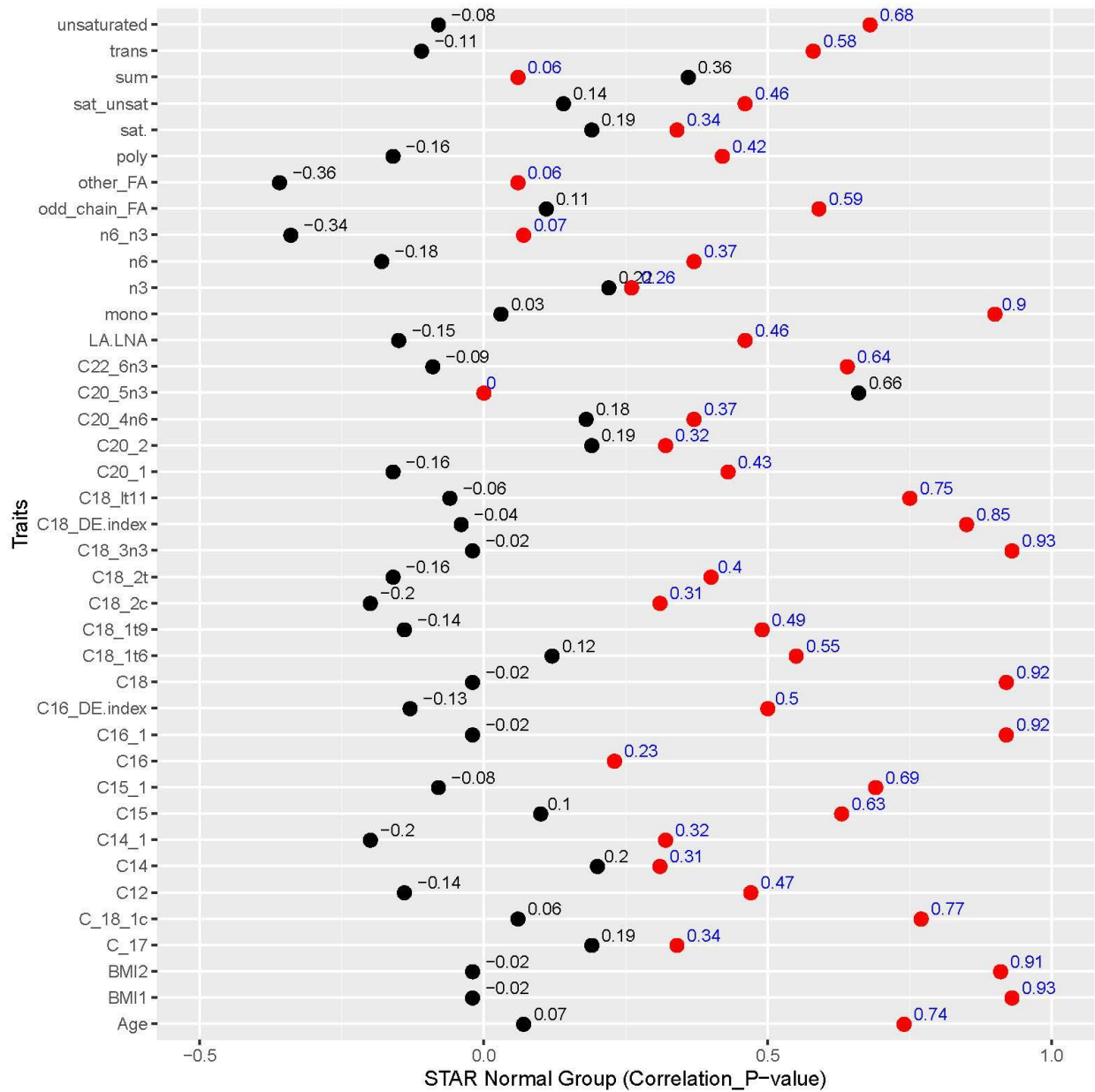
Figure S27.1. Heat Plot of pairwise correlation among different traits in non-PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).
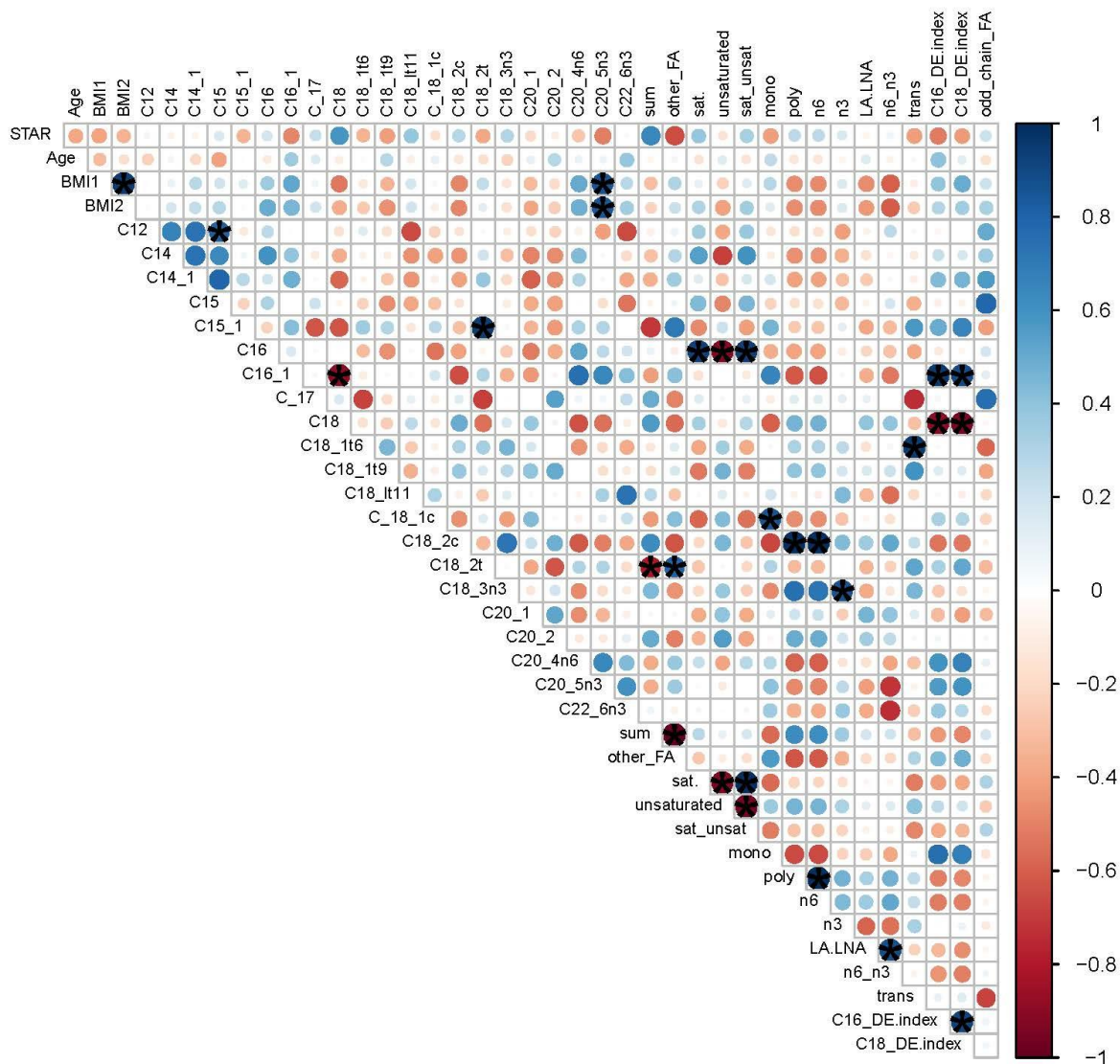
Figure S27.2. Dot plot of correlations between expression of *STAR* and fatty acids in non-PCOS women. Black and red dots indicate p-value and correlation values, respectively.
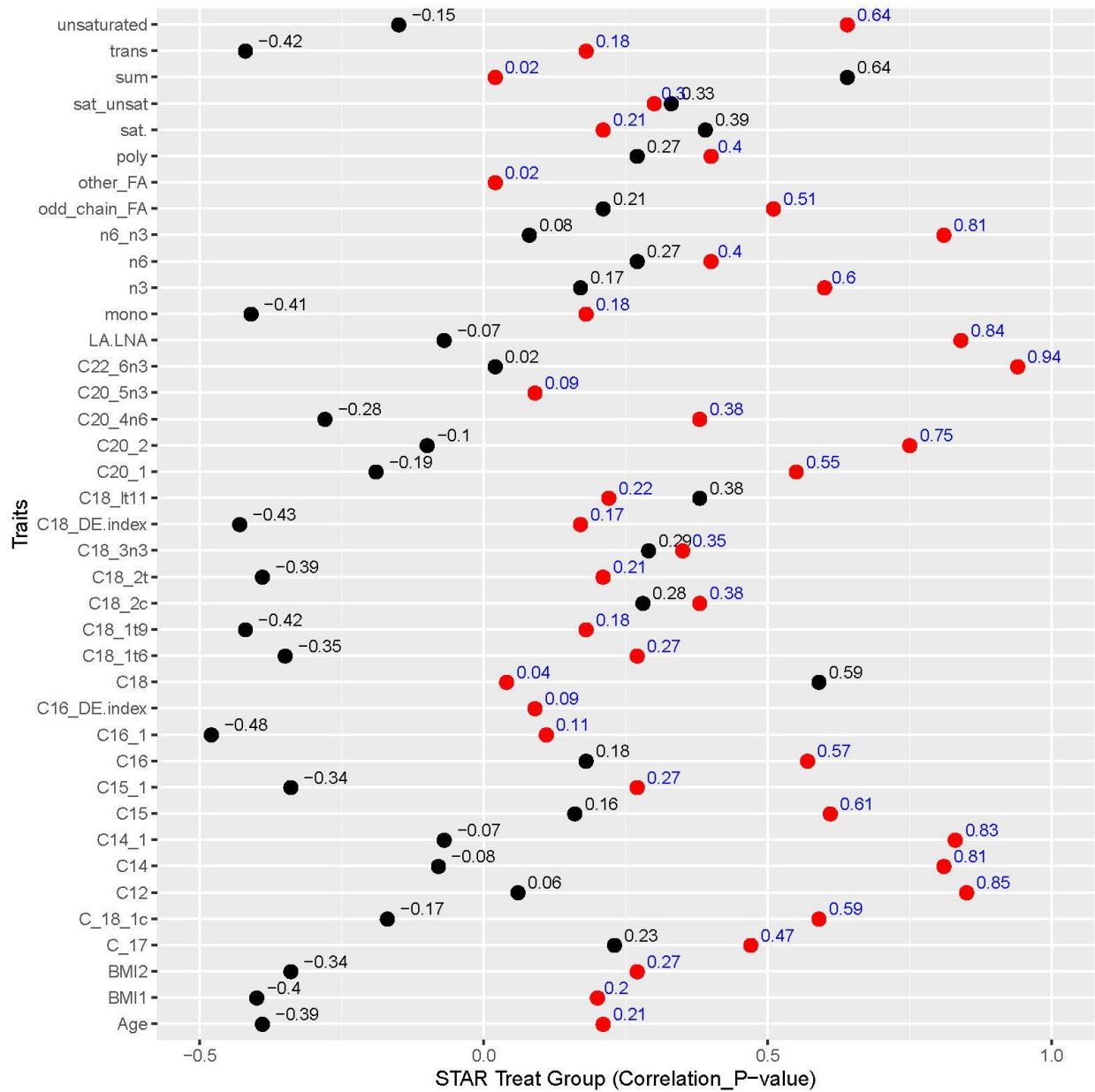
Figure S28.1. Heat Plot of pairwise correlation among different traits in PCOS women. Star indicates the significant correlations. Color of the circles indicates the value of the correlations (blue positive and red negative). Size of the circles indicate the significance of the correlations (larger means more significant).

Figure S28.2. Dot plot of correlations between expression of *STAR* and fatty acids in PCOS women. Black and red dots indicate p-value and correlation values, respectively.