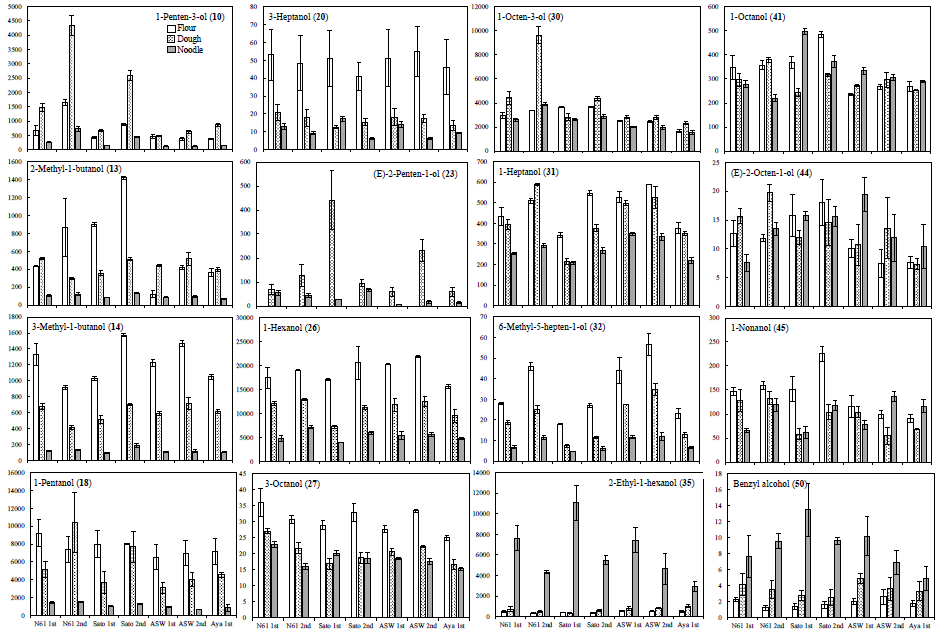
**Supporting Information**

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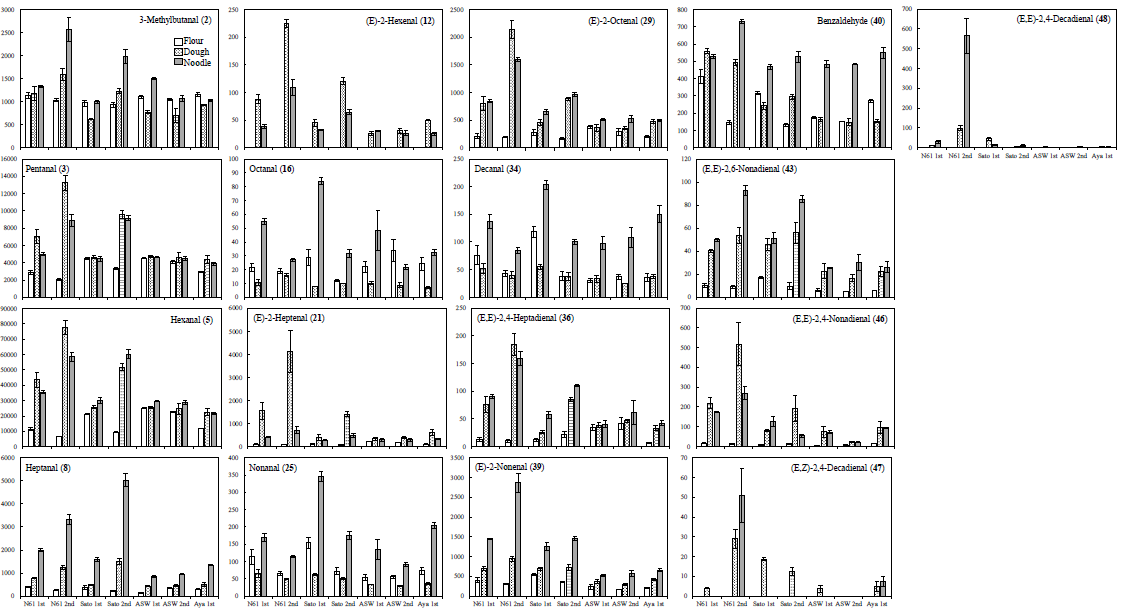
**S1 Figure:** Peak areas of the alkanes, furans, amine, and acids.

Error bars represent the standard deviations; n=3. The y-axes plot the mean peak area (×104). 1st and 2nd represent the flour grade. ASW, Australian standard white; N61, Nourin 61; Sato, Satonosora; Aya, Ayahikari.



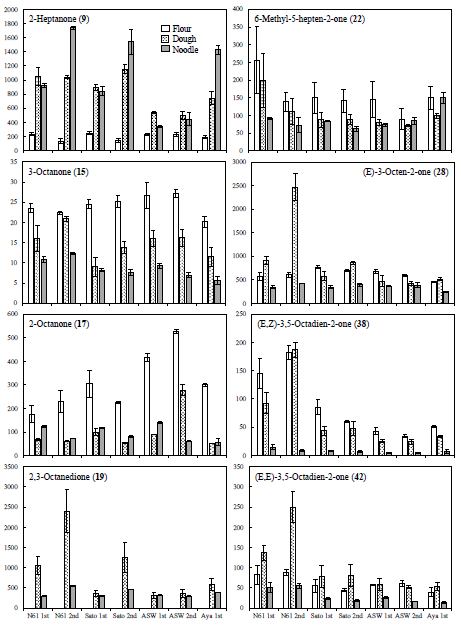
**S2 Figure:** Peak areas of alcohols.

Error bars represent the standard deviation; n=3. The y-axes plot the mean peak area (×104). 1st and 2nd represent the flour grade. ASW, Australian standard white; N61, Nourin 61; Sato, Satonosora; Aya, Ayahikari.

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**S3 Figure:** Peak areas of aldehydes.

Error bars represent the standard deviation; n=3. The y-axes plot the mean peak area (×104). 1st and 2nd represent the flour grade. ASW, Australian standard white; N61, Nourin 61; Sato, Satonosora; Aya, Ayahikari.



**S4 Figure:** Peak areas of ketones.

Error bars represent the standard deviation; n=3. The y-axes plot the mean peak area (×104). 1st and 2nd represent the flour grade. ASW, Australian standard white; N61, Nourin 61; Sato, Satonosora; Aya, Ayahikari.