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Comparative evaluation of spoilage-related bacterial diversity and metabolite profiles in chilled beef stored under air and vacuum packaging

Ahmad Rois Mansur, Eun-Ji Song, Yong-Sun Cho, Young-Do Nam, Yun-Sang Choi, Dae-Ok Kim, Dong-Ho Seo, Tae Gyu Nam



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2 **Comparative evaluation of spoilage-related bacterial diversity and metabolite**
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5 Ahmad Rois Mansur^{a,d,1}, Eun-Ji Song^{b,d,1}, Yong-Sun Cho^a, Young-Do Nam^{b,d}, Yun-Sang Choi^c,
6 Dae-Ok Kim^e, Dong-Ho Seo^{b,*}, Tae Gyu Nam^{a,*}

7
8 ^a *Food Analysis Center, Korea Food Research Institute, Wanju 55365, Republic of Korea*

9 ^b *Research Group of Gut Microbiome, Korea Food Research Institute, Wanju 55365, Republic of*
10 *Korea*

11 ^c *Food Processing Research Center, Korea Food Research Institute, Wanju 55365, Republic of*
12 *Korea*

13 ^d *Department of Food Biotechnology, Korea University of Science and Technology, Daejeon 34113,*
14 *Republic of Korea*

15 ^e *Department of Food Science and Biotechnology, Kyung Hee University, Yongin 17104, Republic*
16 *of Korea*

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18 ¹ These authors contributed equally to this work.

19 **Running title:** Beef-quality evaluation by VOC correlates with bacteria and off-odor

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21 * Corresponding authors: Dong-Ho Seo and Tae Gyu Nam

22 Tel: +82-63-219-9385 (D.-H. Seo); +82-63-219-9424 (T.G. Nam)

23 Fax: +82-63-219-8280

24 E-mail addresses: sdh83@kfri.re.kr (D.-H. Seo); ntg97@kfri.re.kr (T.G. Nam).

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