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Corrigendum to "Point-of-care testing for lysine concentration in swine serum via blue-emissive carbon dots entrapped microfluidic chip" [Animal Nutrition 12 (2023) 236–244]

Chizhu Ding, Xiang Chen, Xiaoyu Chen, Yue Liu, Menglin Xia, Ziyi He, Qinshu Kang, Xianghua Yan*

State Key Laboratory of Agricultural Microbiology, Hubei Hongshan Laboratory, Frontiers Science Center for Animal Breeding and Sustainable Production, College of Science, College of Animal Sciences and Technology, College of Veterinary Medicine, Huazhong Agricultural University, Wuhan, 430070, China

Section 2.1:
Animal ethics approval number: **HZAUSW-2002–0009**
Change to: **HZAUSW-2022–0011**

Section 2.6:
… 200 μL solution of N-CDs (**0.1 mg/mL**) …
Change to: … 200 μL solution of N-CDs (**1.5 mg/mL**) …

Section 3.1:
… with the size ranging **from 4 to 8 nm** …
Change to: … with the size ranging **from 2 to 7 nm** …

Section 3.1:
… 2 distinct absorption peaks at **240 and 281 nm**, … the n-π* transitions of **C–N bonds** …
Change to: … 2 distinct absorption peaks at **256 and 339 nm**, … the n-π* transitions of **C=O groups** …

Section 3.1:
… **1,790 to 1,365 cm^{-1}** (C=O and COOH stretching vibration) and **1080 cm^{-1} (C–O–C stretching vibration)** …
Change to: … **1,790 to 1540 cm^{-1}** (C=O and COOH stretching vibration) and **1400 to 1000 cm^{-1} (C–N, C–O, and C–O–C stretching vibration)** …

Section 3.1:
… a broad peak at **22.6**°, corresponding to a *d*-spacing of **3.93 Å** …
Change to: … a broad peak at **31.7**°, corresponding to a *d*-spacing of **2.82 Å** …

Section 3.1:
… mainly contained **4 elements: C, O, N and Zn**. **A small amount of Cl element was also observed.** The element contents of **C, O, N and Zn** determined by XPS were **68.05% (wt/wt), 20.82% (wt/wt), 7.63% (wt/wt) and 3.51% (wt/wt),** respectively …
Change to: … mainly contained **3 elements: C, O, and N**. The element contents of **C, O, and N** determined by XPS were **73.64% (wt/wt), 22.99% (wt/wt), and 3.37% (wt/wt)**, respectively …

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* Corresponding author.
E-mail address: xhyan@mail.hzau.edu.cn (X. Yan).
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Section 3.2:
… **($I/I_0 = 0.00458C_{Lys} + 1.01319$, $R^2 = 0.99693$)** … λ_{em} **= 436 nm** … **1.7 μmol/L** based on $3\delta_{blank}$ …
Change to: … **($I/I_0 = 0.00131C_{Lys} + 1.01175$, $R^2 = 0.9923$)** … λ_{em} **= 459 nm** … **2.25 μmol/L** based on $3\delta_{blank}$ …

Section 3.2:
… **24.8% and 34.8%** before and after addition of 100 μmol/L lysine with excitation at **380 nm** …
Change to: … **8.2% and 9.1%** before and after addition of 100 μmol/L lysine with excitation at **370 nm** …

Section 3.3:
… ($I/I_0 = 0.00471C_{Lys} + 1.01184$, R^2 **= 0.99546**) …
Change to: … ($I/I_0 = 0.00471CLys + 1.01184$, R^2 **= 0.9955**) …

Section 3.4:
… ($I/I_0 = 0.00455C_{Lys} + 1.01985$, R^2 **= 0.99537**) …
Change to: … ($I/I_0 = 0.00455C_{Lys} + 1.01985$, R^2 **= 0.9954**) …

Section 4:
… LOD of **1.7 μmol/L** …
Change to: … LOD of **2.25 μmol/L** …

Fig. 2 and caption:
Change to:

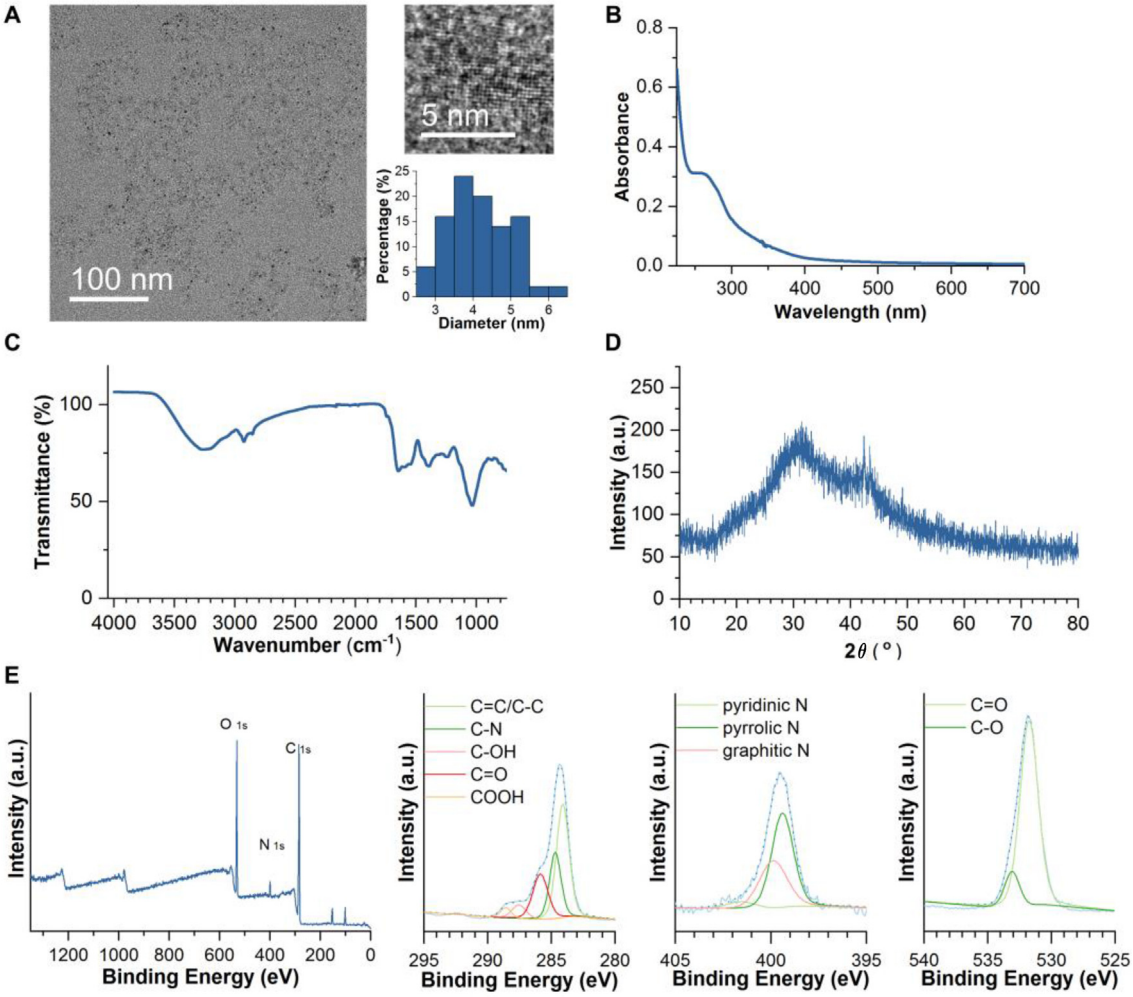


Fig. 2. Structural characterization of nitrogen-doped carbon dots (N-CDs). (A) Transmission electron microscopy (TEM), high-resolution TEM (HRTEM) images, and particle-size distribution for N-CDs. (B) Ultraviolet-visible (UV-vis) absorption spectrum. (C) Fourier transform infrared (FTIR) spectrum. (D) X-ray power diffraction (XRD) pattern ($2\theta = 31.7°$, d-spacing = 2.82 Å). (E) X-ray photoelectron spectroscopy (XPS) survey and deconvoluted high-resolution XPS spectra of C 1s, N 1s, and O 1s for N-CDs.

Fig. 3 and caption:
Change to:

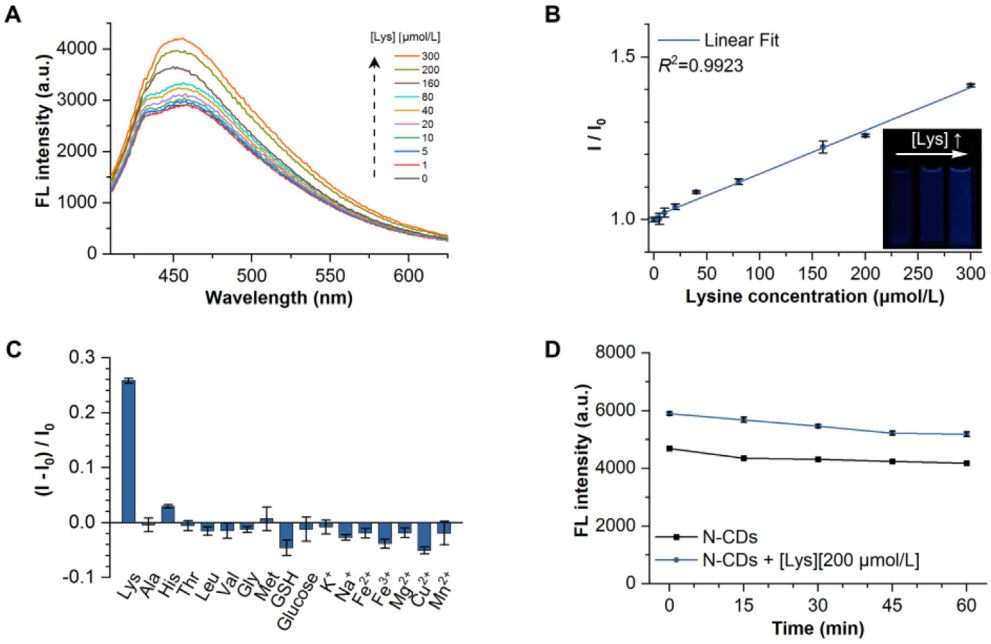


Fig. 3. Optical response of nitrogen-doped carbon dots (N-CDs) for lysine detection. (A) Fluorescence emission spectra of N-CDs in the presence of different concentration of lysine (λ_{ex} = 370 nm). (B) Linear fitting curve of the relative light intensity (I/I_0) versus the concentration of lysine (λ_{em} = 459 nm) and image of N-CDs solution under 365 nm UV irradiation. (C) Fluorescence response I/I_0 in the presence of different analytes (λ_{ex} = 370 nm, λ_{em} = 459 nm). (D) Fluorescence stability under UV illumination. FL = fluorescence; a.u. = arbitrary units; GSH = glutathione.

Fig. 5
Change to:

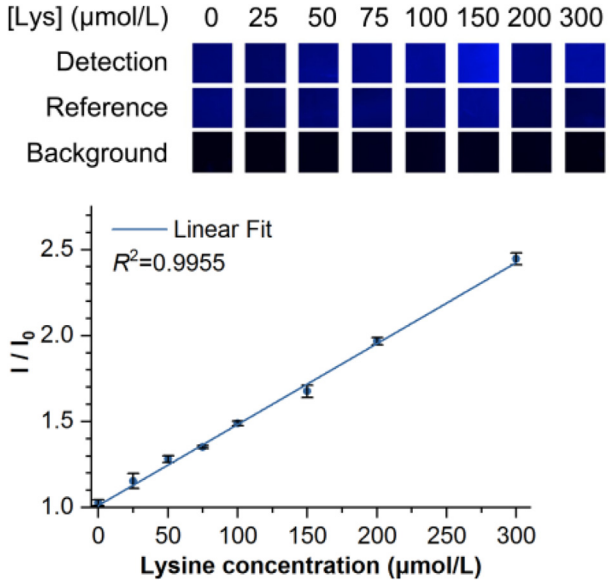
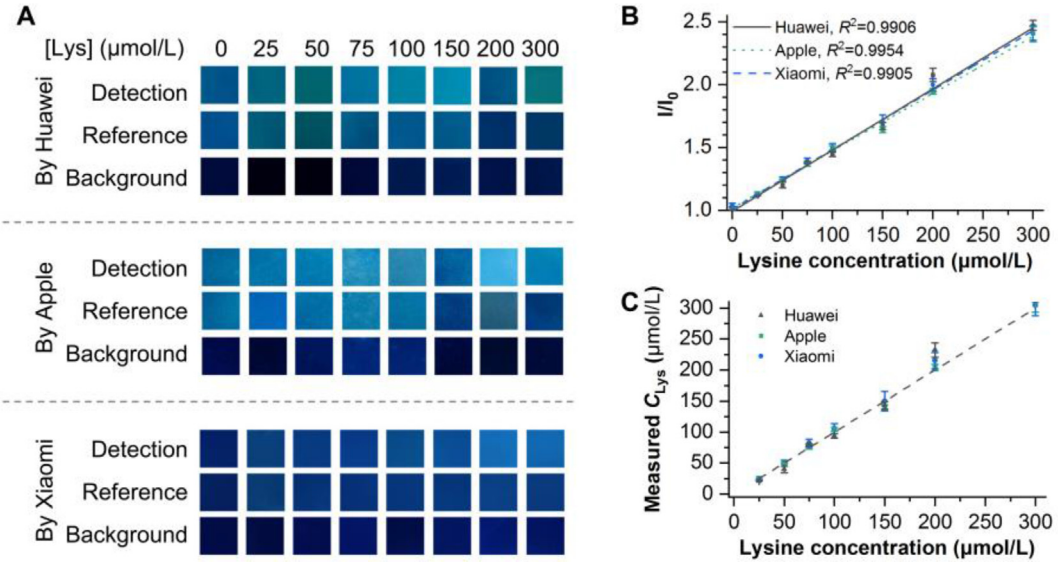


Fig. 7
Change to:



The authors would like to apologise for any inconvenience caused.