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Retraction: Glycolipid nanotube templates for the production of hydrophilic/hydrophobic and left/right-handed helical polydiacetylene nanotubes

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Retraction of 'Glycolipid nanotube templates for the production of hydrophilic/hydrophobic and left/right-handed helical polydiacetylene nanotubes' by Naohiro Kameta *et al.*, *Chem. Commun.*, 2021, **57**, 464–467, <https://doi.org/10.1039/D0CC07387C>.

We the named authors hereby wholly retract this *Chemical Communications* article due to the fact that the paper has wrong electron microscopy images in Fig. 2 and Fig. S3b (ESI) on the part of the first author, who is affiliated with the National Institute of Advanced Industrial Science and Technology (AIST).

Fig. 2 should have displayed SEM and scanning TEM images of the polydiacetylene nanotubes (PDA-NTs) that were released from the glycolipid nanotube (Glyco-NT or GlycoOEt-NT) templates. However, the first author posted SEM images of the PDA-NTs retained in the Glyco-NT template due to insufficient decomposition of the template and/or the PDA-NTs complexed with re-assemblies of the decomposition components of the template in Fig. 2a and e, SEM images of the PDA-NTs retained in the GlycoOEt-NT template due to insufficient decomposition of the template and/or the PDA-NTs complexed with re-assemblies of the decomposition components of the template in Fig. 2b and f, the scanning TEM image of the Glyco-NT template in Fig. 2c and the scanning TEM image of the GlycoOEt-NT template in Fig. 2d. The incorrect images in Fig. 2a–f are also found to include not only serious errors with the scale bars that were approximately 9.5, 9.5, 2.9, 2.0, 9.0 and 11 times longer than the actual, respectively, but also 0.84 times reduction in the vertical direction of the image (Fig. 2d) and inappropriate inversion of the image (Fig. 2f).

Fig. S3b should have displayed the scanning TEM image of the GlycoOEt-NT. However, the first author posted the scanning TEM image of the Glyco-NT.

The authors respectfully retract this paper, because these events were determined to amount to scientific misconduct and the retraction of this paper was recommended by AIST. AIST verified that the first author was responsible for the misconduct and no other co-authors were engaged in the misconduct.

Signed: Mitsutoshi Masuda, Naohiro Kameta, Wuxiao Ding

Date: 4th October 2024

Retraction endorsed by Richard Kelly, Executive Editor, *Chemical Communications*

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