

## CORRECTION

View Article Online  
View Journal | View Issue

Cite this: *Biomater. Sci.*, 2025, **13**, 3090

# Correction: Urethral reconstruction using an amphiphilic tissue-engineered autologous polyurethane nanofiber scaffold with rapid vascularization function

Yuqing Niu,<sup>a,c</sup> Guochang Liu,<sup>d</sup> Chuangbi Chen,<sup>b</sup> Ming Fu,<sup>d</sup> Wen Fu,<sup>d</sup> Zhang Zhao,<sup>d</sup> Huimin Xia<sup>\*a,d</sup> and Florian J. Stadler<sup>\*b</sup>

DOI: 10.1039/d5bm90034d

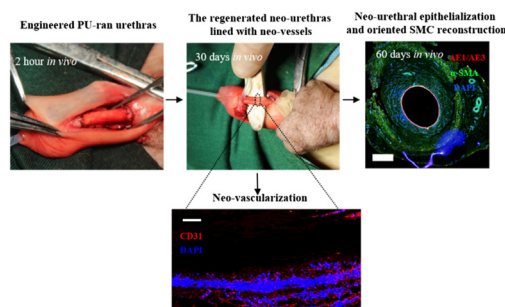
rsc.li/biomaterials-science

Correction for 'Urethral reconstruction using an amphiphilic tissue-engineered autologous polyurethane nanofiber scaffold with rapid vascularization function' by Yuqing Niu *et al.*, *Biomater. Sci.*, 2020, **8**, 2164–2174, <https://doi.org/10.1039/C9BM01911A>.

The authors regret errors in Fig. 1A, B, 3I and 6A, the graphical abstract (which contains an image from Fig. 6), and in the ESI Fig. S11D.

The image for neo-vascularization in the graphical abstract was incorrect. The corrected graphical abstract is shown below.

Graphical abstract



The SEM data for SEM E10-ran-C20 in Fig. 1A and for SMCs E20-ran-20 in Fig. 1B were incorrect. The corrected figure is shown here.

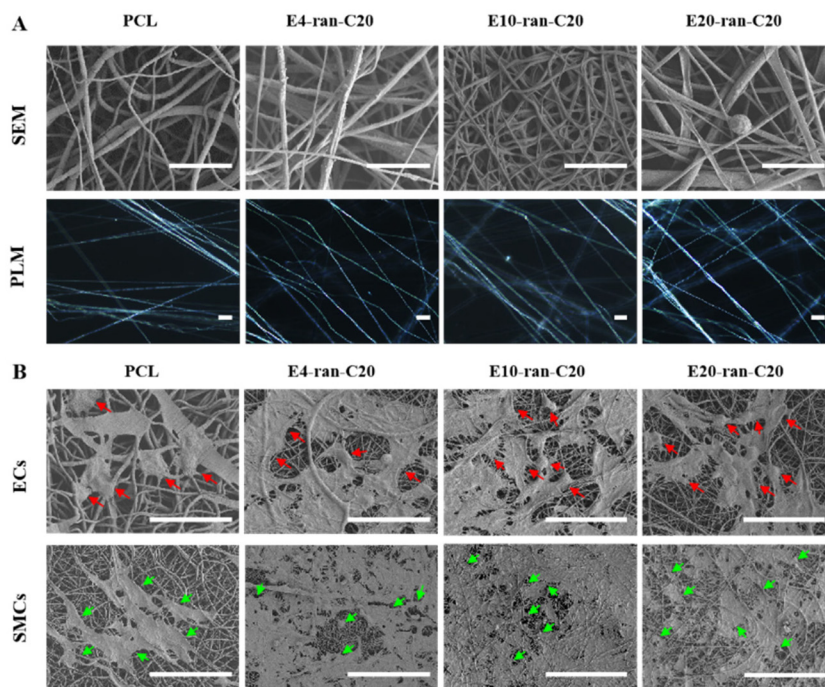
<sup>a</sup>Department of Pediatric Surgery, Guangzhou Institute of Pediatrics, Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou 510623, Guangdong, China. E-mail: xia-huimin@foxmail.com

<sup>b</sup>Nanshan District Key Lab for Biopolymers and Safety Evaluation, Shenzhen Key Laboratory of Polymer Science and Technology, Guangdong Research Center for Interfacial Engineering of Functional Materials, College of Materials Science and Engineering, Shenzhen University, Shenzhen 518055, PR China. E-mail: fjadler@szu.edu.cn; Tel: +86-0755-86713986

<sup>c</sup>State Key Laboratory of Virology, Wuhan Institute of Virology, Chinese Academy of Sciences, Wuhan, 430071, China

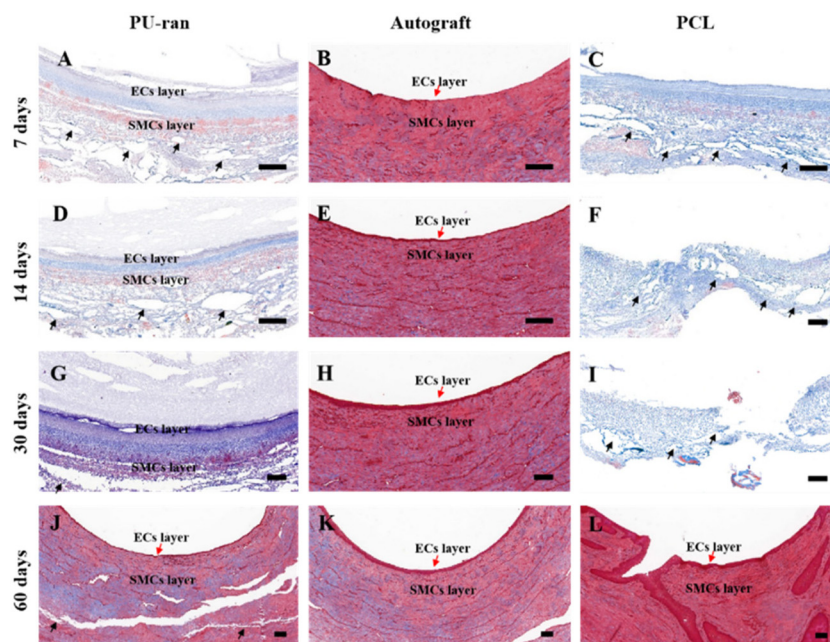
<sup>d</sup>Department of Pediatric Urology, Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou 510623, Guangdong, China





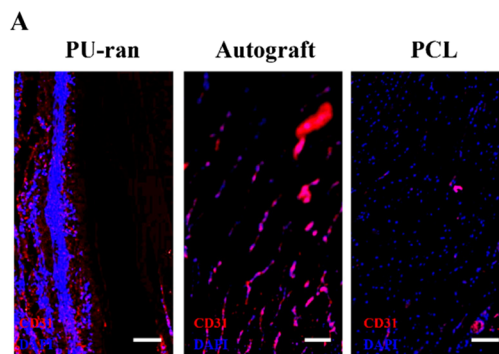
**Fig. 1** (A and B) Nano-morphology and biomedical clues of polyester PCL and PU-ran copolymers nanofibers. (A) SEM and PLM images of PCL, E4-ran-C20, E10-ran-C20, and E20-ran-C20 nanofiber scaffold surfaces. (B) SEM images of Beagle autologous EC and bladder SMC morphology at 48 h culture on PCL, E4-ran-C20, E10-ran-C20, and E20-ran-C20 nanofiber scaffolds, respectively. Red arrows, seeded EC morphology on the various nanofiber scaffolds, green arrows, seeded SMC morphology on the various nanofiber scaffolds. Scale bars, (A) 15  $\mu\text{m}$ , (B) 100  $\mu\text{m}$ .

The image data for PCL in Fig. 3I was incorrect. The corrected figure is shown here.



**Fig. 3** *In vivo* lumen epithelialization process. Masson's trichrome staining of the cross-section of the mid-section of cellularized scaffold PU-ran (A, D, G and J), autograft (B, E, H and K) and cellularized scaffold PCL (C, F, I and L) at the predetermined time points after implantation. Collagen (blue); smooth muscle (red). Black arrows: degraded nanofiber voids, red arrows: EC layer formed in the wall of different tissue engineering scaffolds. Scale bar, 50  $\mu\text{m}$ .

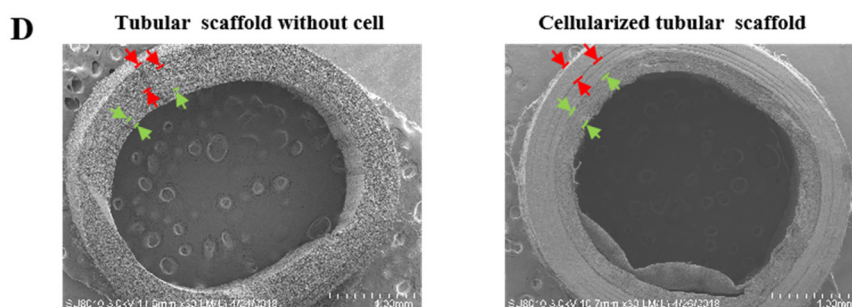




**Fig. 6** (A) Vascular density of tissue-engineered urethra grafts post-transplantation. Representative images of (A) CD31+ (red staining) within different implant grafts 30 days after implantation. Nuclei (blue staining). Scale bars, 60  $\mu$ m.

The immunofluorescence data for PU-ran and autograft in Fig. 6A were incorrect. The corrected Fig. 6A is shown here.

The SEM micrograph of tubular scaffold without cell in Fig. S11D was incorrect. The corrected Fig. S11D is shown below



**Fig. S11** Preparation of a cellularized PU-ran scaffold for transplantation. (D) SEM images of stratified tubular PU-ran (E10-ran-C20) nanofiber scaffolds before seeded cells seeding and after seeded cells seeding.

An independent expert has viewed the raw image data and associated quantification data for Fig. 6b and has concluded that they are consistent with the discussions and conclusions presented.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

