## Lab on a Chip



## CORRECTION

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## Correction: Introducing dip pen nanolithography as a tool for controlling stem cell behaviour: unlocking the potential of the next generation of smart materials in regenerative medicine

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Correction for 'Introducing dip pen nanolithography as a tool for controlling stem cell behaviour: unlocking the potential of the next generation of smart materials in regenerative medicine' by Judith M. Curran et al., Lab Chip, 2010, 10, 1662-1670.

The authors regret that errors were made in the construction of Fig. 2 and 3 of this Lab on a Chip article. Specifically the annotation associated with the 140 nm and 1 micron arrays was incorrect. The authors would like to clarify that this minor error does not change any of the conclusion or discussion points. The authors further regret that subfigures adapted from ref. 1 were not attributed by citation to ref. 1 and did not contain credit lines in their captions. The figures and captions have now been updated to correct these errors and are given below.

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Correction

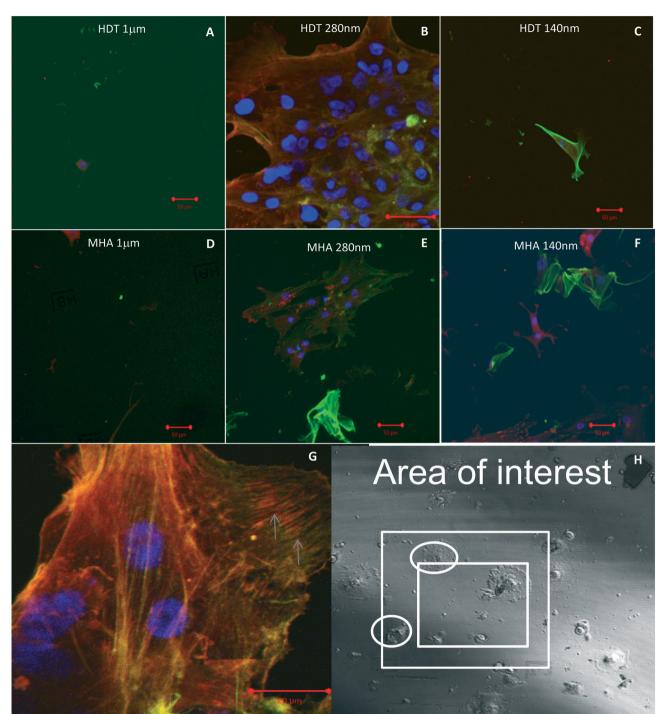
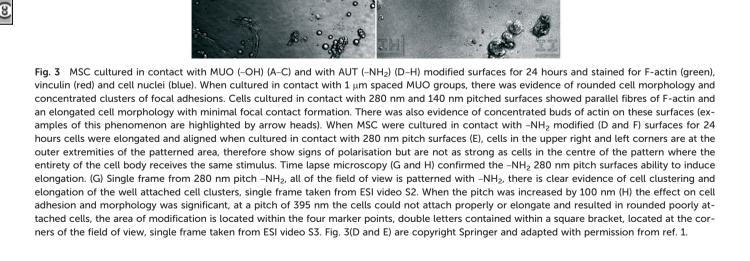


Fig. 2 (A–F) MSC cultured in contact with HDT and MHA modified surfaces for 24 hours and stained with Oregon Green Phallodin (green-stress fibres), vinculin (red-focal contacts) and DAPI (blue-nuclei). Only 280 nm pitch modified surfaces supported viable cell adhesion. (G) High magnification image of cells clustered on ODT 280 nm pitch, arrow heads show motile focal adhesions associated with the periphery of the patterned area, whilst focal adhesions inside the patterned area are dense and well established, depicting the strong binding of the cell via focal adhesions to the underlying nanoarrays. (H) Single frame from time lapse microscopy experiment demonstrating the chemotactic nature of the modified surface. Over a 12 hour time period highlighted cells moved from the periphery of the modified area (where bodies were in contact with control and modified areas) into the centre of the modified area (CH3 280 nm pitch, inside the smaller white square) from the adjacent unmodified areas, full time lapse analysis is available in ESI video S1. The images collected were from low cell density experiments to allow investigations into single cell interactions with the surface, the same chemotactic properties were observed when the cell density was increased. Fig. 2A and B are copyright Springer and adapted with permission from ref. 1.

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MUO 1µm MUO 140nm MUO 280nm C AUT 280nm AUT 140nm AUT 1µm F D



Correction

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

## References

1 J. M. Curran, R. Chen, R. Stokes, E. Irvine, D. Graham, E. Gubbins, D. Delaney, N. Amro, R. Sanedrin, H. Jamil and J. A. Hunt, J. Mater. Sci.: Mater. Med., 2010, 21, 1021-1029.