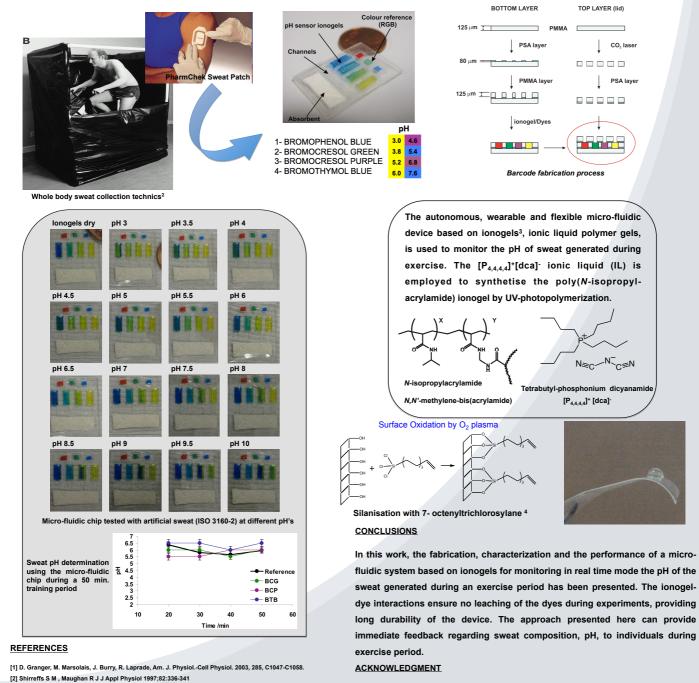
Chemical Barcodes for Real-Time Sweat pH Monitoring Based on Wearable Micro-fluidic Platforms Incorporating Ionic Liquids

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Sweat is naturally generated during exercise, and real-time monitoring of its composition provides very rich information about the physiological condition of the individual.¹ There are several factors that correlate sweat pH and health, however, relatively little is known about them due to the difficulties in performing realtime on-body measurements during exercise.



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[3] F. Benito-Lopez, R. Byrne, A. M. Raduta, N. E. Vrana, G. McGuinness, D. Diamond, Lab Chip 2010, 10, 195-201

[4] S. Samanta, J. Locklin, Langmuir 2008, 24, 9558-9565

