

# Development of a Hydrogel-based Platform to Treat Diabetic Foot Ulcers Correcting Their Defective Micro-RNA Expression

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- 1 in 4 diabetic patients will develop DFUs, being the leading cause of non-traumatic amputation worldwide, presenting lower 5-year survival rates than breast or prostate cancer and costing £1 in every £150 the NHS spends each year according to the National Diabetes Foot Care Audit 2015-2018.

- It has been recently discovered that some of the natural regulators of a correct gene expression, named micro-RNAs (miRs), are dysregulated in DFUs. We found that miR-X, strongly involved in diabetes and the wound healing process, is upregulated in DFUs delaying the healthy healing. Hence, the inhibition of the miR-X raises as an interesting approach to tackle this medical condition.

