

Peptides driving innovation in wound healing: our journey thus far

Ana Gomes,^a Ricardo Ferraz,^{a,b,c} Mariana Ferreira,^a Ermelindo Leal,^d Paula Gameiro,^a
Eugénia Carvalho,^d Paula Gomes^a

^a LAQV-REQUIMTE, Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade do Porto, Portugal

^b Centro de Investigação em Saúde Translacional e Biotecnologia Médica (TBIO)/Rede de Investigação em Saúde (RISE-Health), Escola Superior de Saúde, Instituto Politécnico do Porto, R. Dr. António Bernardino de Almeida, 400, 4200-072 Porto, Portugal

^c Ciências Químicas e das Biomoléculas, Escola Superior de Saúde - Instituto Politécnico do Porto, P-4200-072 Porto, Portugal

^d Centro de Neurociências e Biologia Celular (CNC), Universidade de Coimbra (UC), Portugal

The increasing use of peptides as active pharmaceutical ingredients across diverse therapeutic areas is well-documented, and this trend extends to wound healing agents.¹ Peptides and peptidomimetics demonstrate remarkable versatility, serving as active components in hydrogels or forming hydrogels themselves, which has garnered significant attention from the scientific community.²

Our research focuses on peptide-based strategies for the treatment of diabetic foot ulcers and other non-healing wounds, aiming to enhance wound healing and prevent or address bacterial infections at the wound site. Among our most promising findings is the development of a conjugate combining a cosmeceutical peptide with an antimicrobial ionic liquid. This peptide-ionic liquid conjugate, PILC, has shown exceptional potential.³ *In vivo* testing of PILC demonstrated its effectiveness in promoting wound healing with highly encouraging results. This presentation will detail our journey thus far towards the development of this novel therapeutic lead, highlighting key findings, and future directions for this innovative approach.



References

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