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Transcutaneously refillable, 3D-printed biopolymeric encapsulation system for the transplantation of endocrine cells

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1 **Transcutaneously refillable, 3D-printed biopolymeric encapsulation system for the**  
2 **transplantation of endocrine cells.**

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23 **Keywords:** 3D printing, Subcutaneous Implant, Pancreatic Islets, Leydig Cells, Cell Transplantation

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25 **Abbreviations:** **H&E**, hematoxylin and eosin; **IEQ**, Islet equivalent; **PLM**, platelet lysate matrix; **PLA**,  
26 polylactic acid; **SEM**, scanning electron microscopy; **VEGF**, vascular endothelial growth factor.

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