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Evaluation and improvement of organic semiconductors' biocompatibility towards fibroblasts and cardiomyocytes

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Highlights

- TIPS-Pentacene, DPP(TBFu)₂ and P3HT were water stable; PEDOT:PSS produced leachates
- Native TIPS-Pentacene, DPP(TBFu)₂, P3HT and PEDOT:PSS showed limited biocompatibility
- Biocompatibility was improved remarkably by means of collagen IV coating
- Collagen IV treatment supported cultures of beating cardiomyocytes on these materials

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