

Supporting Information

From Self-assembly of Electrospun NanoFibers to 3D cm-thick Hierarchical Foams

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Complementary pictures of dynamic self-assembling

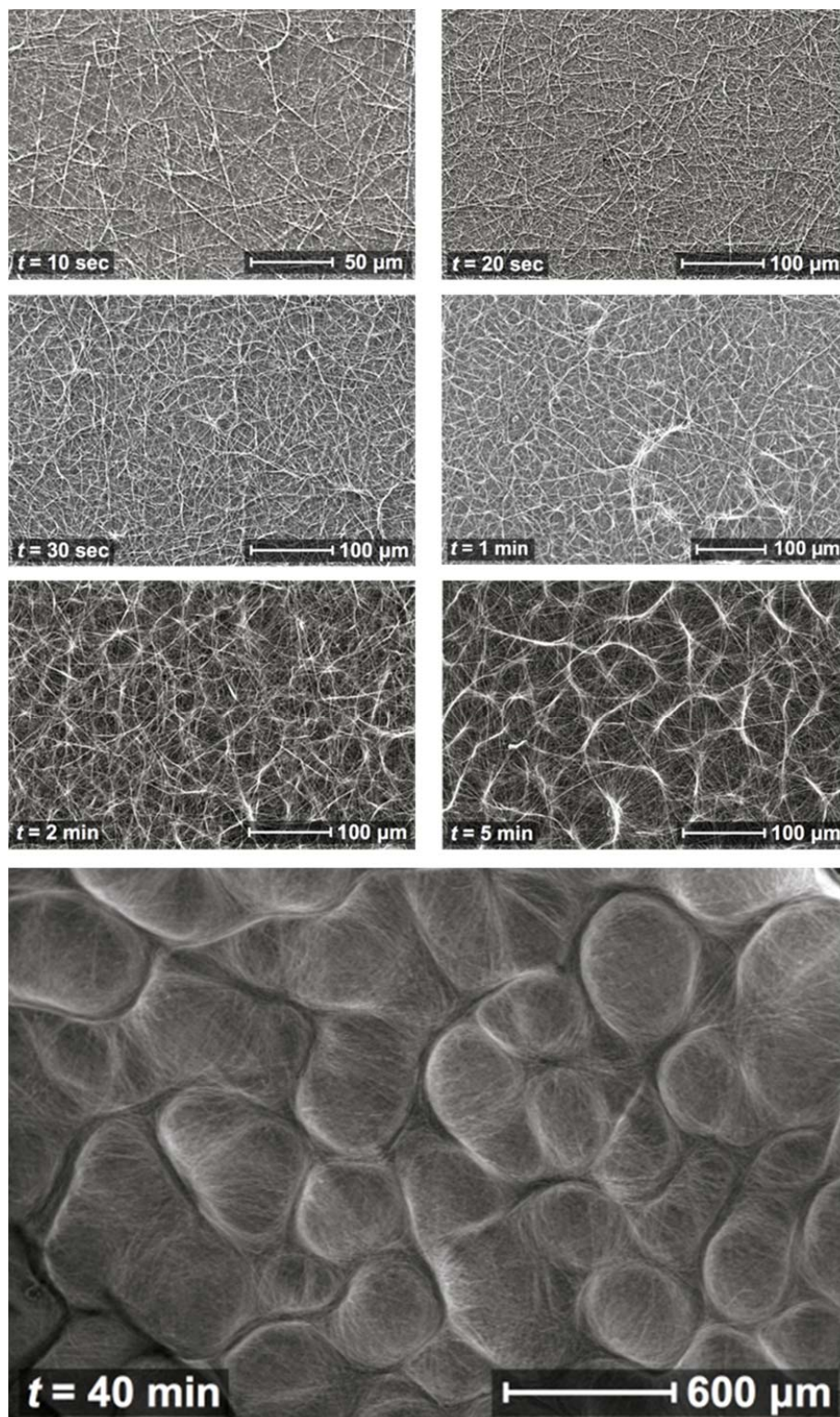


Figure S1: Electrospun scaffold morphologies at different deposition time t obtained with PCL concentration at 13% wt, $V_{\text{needle}} = 10$ kV and $V_{\text{collector}} = -10$ kV

First moments of electrospinning in the case of elongated beaded fibres

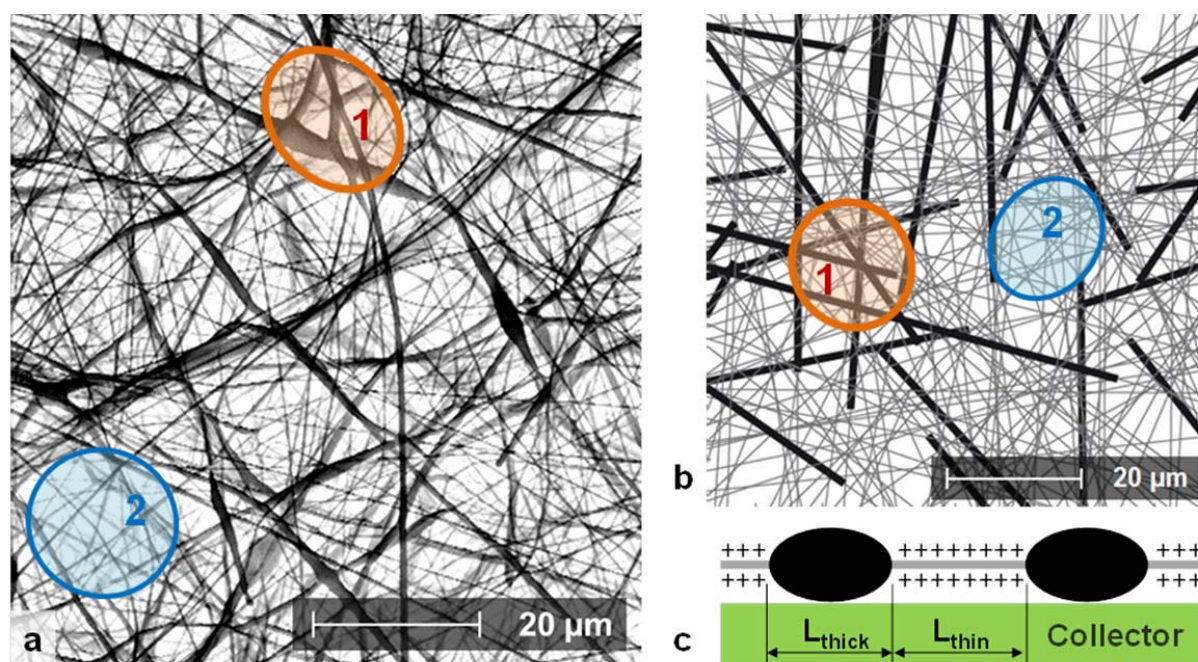


Figure S2: [a] SEM picture showing the very first moments (10 s) of the deposition of irregular electrospun nanofibres with elongated beads obtained with PCL concentration at 13% wt, $V_{needle} = 10$ kV and $V_{collector} = -10$ kV. Region 1 shows the aggregation of thick fibre domains whereas only thin fibres cover the region 2. [b] Monte-Carlo simulation of previous picture showing the aggregation of thick fibre domains after a random deposition of 150 fibres with characteristic length $L_{thick} = 70$ μm and $L_{thin} = 800$ μm. [c] Schematic section of a heterogeneous fibre deposited on the collector.