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Supplementary Materials

High-Speed Fluorescence Imaging Corroborates Biological Data on the Influence of Different Nozzle Types on Cell Spray Viability and Formation

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Figure S1. The different nozzles used. (**A**) DIZG Cell Spray. (**B**) Air-assisted nozzle, AN1. (**C**) Unassisted nozzle, AN2. (**D**) Unassisted nozzle, AN3.

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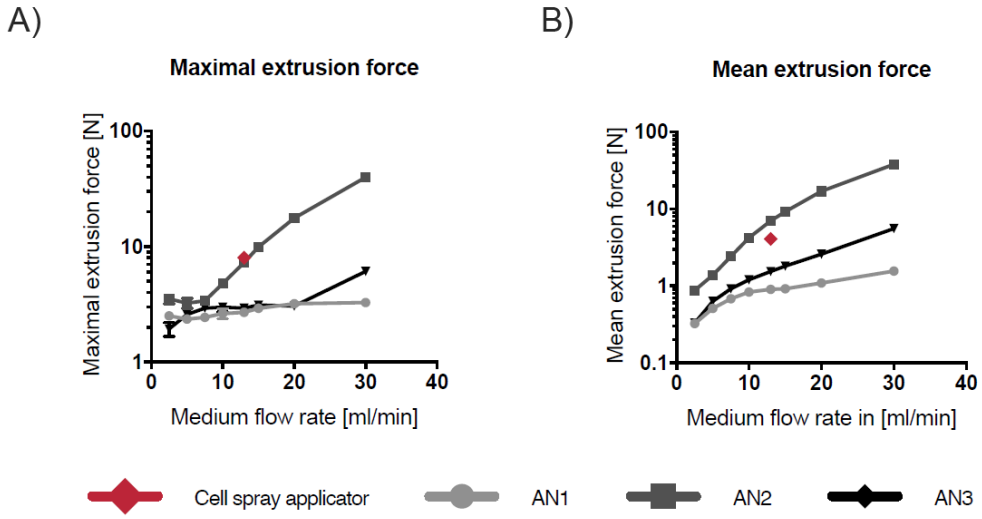

Figure S2. (**A**) Maximum extrusion force of the different nozzles using a variety of medium flow rates. (**B**) Mean extrusion force for the different nozzle types using a variety of medium flow rates. Data are all displayed as mean value ± SD for $n = 3$ replicates.

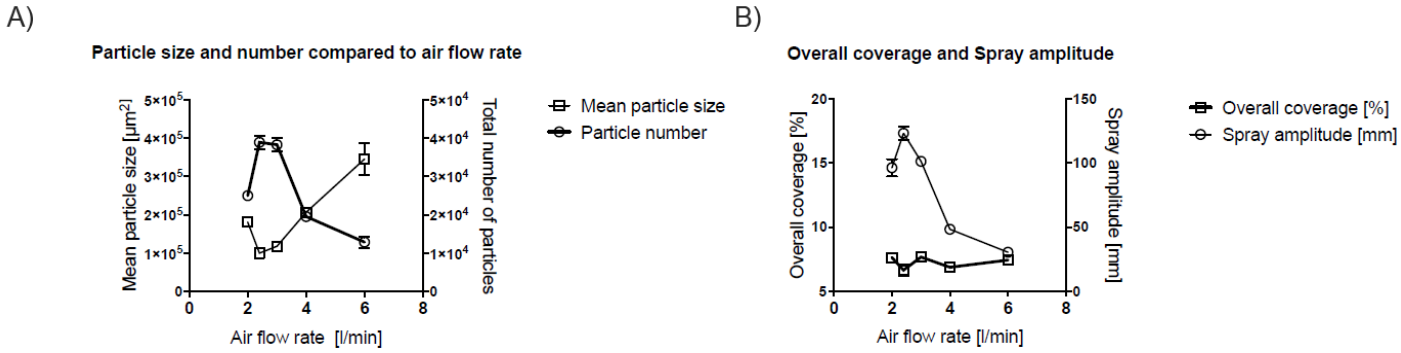

Figure S3. Varied airflow testing of AN1. (**A**) Size and Number of particles achieved by AN1 using a fixed medium flow rate of 13 mL/min and a variety of airflow rates. (**B**) Spray amplitude and overall coverage using AN1. A constant medium flow rate of 13 mL/min and a variety of airflow rates are used. Data are all displayed as mean value + SD for $n = 3$ replicates. .