

## Supporting Information

# Correlative Raman-Electron-Light (CREL) Microscopy Analysis of Lipid Droplets in Melanoma Cancer Stem Cells

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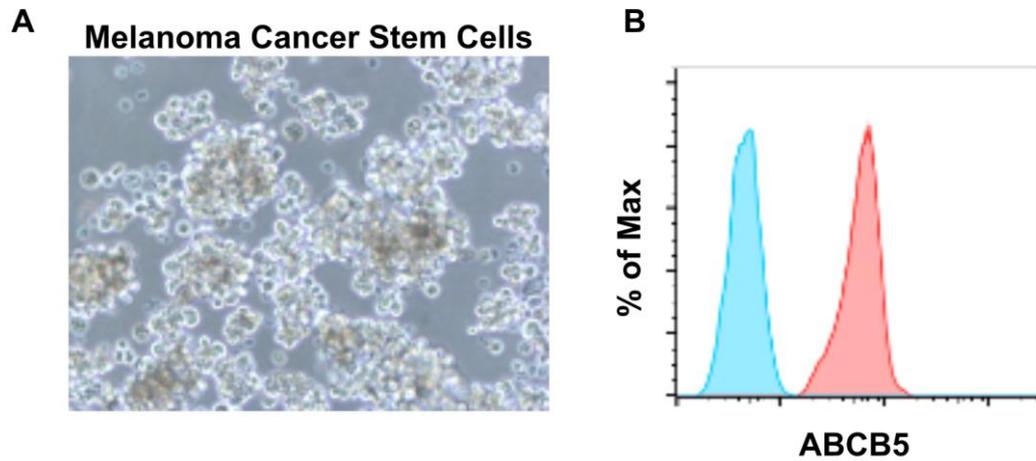
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## Supporting Figure S1



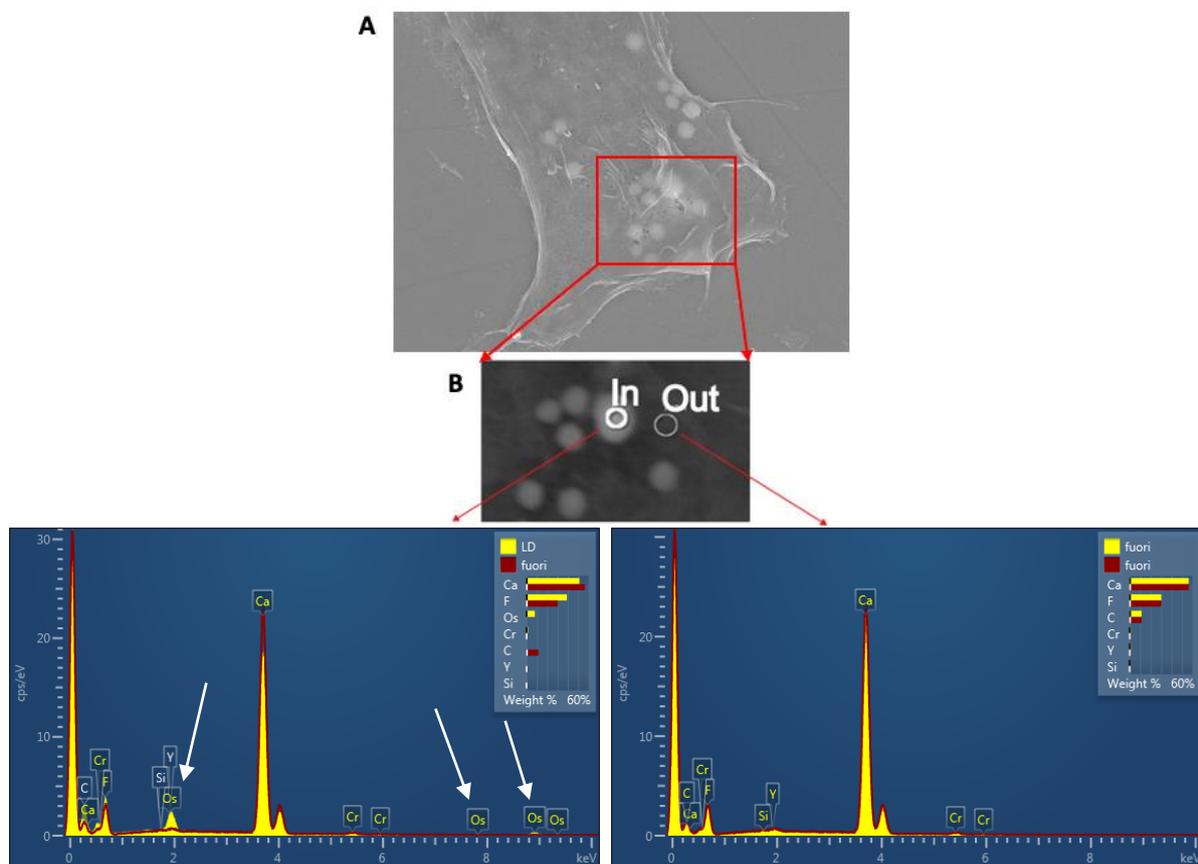
**Figure S1. Patient-derived Melanoma Cancer Stem Cells.** **A)** Representative phase contrast analysis of melanoma stem cells. **B)** Flow cytometry analysis of ABCB5 on melanoma stem cell. The isotype-matched control is shown in light blue.

## Supporting Table S1

Raman Shift (cm-1)	Peak Assignment
750	Cytochrome C
782	<b>DNA/RNA</b> Nucleotides
1076	Stretching P-O-CH <sub>3</sub>
1093	DNA Backbone
1128	Cytochrome C
1262	C-H <i>cis</i> -stretch: <b>Unsaturated Lipids</b>
1301	CH <sub>2</sub> Twist: <b>Saturated Lipids</b>
1312	CH <sub>3</sub> CH <sub>2</sub> Twist: <b>Lipids</b>
1338	CH <sub>2</sub> /CH <sub>3</sub> Wagging, Twisting &/or Bending mode: <b>Lipids</b>
1440	<b>Lipid/Protein</b> Marker
1578	G, A <b>DNA</b> Bases
1582	Cytochrome C
1654	Overlapping of Amide III with <b>Unsaturated Lipids</b>
1743	<b>Lipids</b> : Ester Band
2850	CH <sub>2</sub> Symmetric Stretching: <b>Unsaturated Lipids</b>
2885	CH <sub>2</sub> Asymmetric Stretching: <b>Saturated Lipids</b>

Table S1. Tentative assignment of main Raman peaks.

## Supporting Figure S2



**Figure S2. Osmium BSE-SEM detection within LDs.** Osmium-related higher BSE-SEM contrast as an indirect further indication of LD presence