

SUPPLEMENTARY MATERIALS CAPTIONS

Figure S4. CLMS micrographs external (A, B, C) and internal (D, E, F) hop leaves stored for 360 days at -40°C . A1-2 and D1-2 represent merge of the channels 'blue-green' and 'red-orange'; B1-2 and E1-2, 'blue-green'; C1-2 and F1-2 'red-orange'.

Figure S5. CLMS micrographs external (A, B, C) and internal (D, E, F) hop leaves stored for 360 days at -30°C . A1-2 and D1-2 represent merge of the channels 'blue-green' and 'red-orange'; B1-2 and E1-2, 'blue-green'; C1-2 and F1-2 'red-orange'.

Figure S6. CLMS micrographs external (A, B, C) and internal (D, E, F) hop leaves stored for 360 days at -20°C . A1-2 and D1-2 represent merge of the channels 'blue-green' and 'red-orange'; B1-2 and E1-2, 'blue-green'; C1-2 and F1-2 'red-orange'.