Melanin quantitation (Ando-sensei@OUS,

https://www.sciencedirect.com/science/article/pii/S0022202X1535689X?via% 3Dihub

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<u>6 well culture</u>

 \downarrow melanin addition

Collect cells (~48h)

- $\downarrow \qquad \text{Resusp in } 100\mu \text{l of DW}$
- ↓ +Add 400µl of EtOH:(Et)2O=1:1 sol'n.
 Leave for 5min, @r.t.
- ↓ Centrifuge at 1000g, 5min

Sup (PNS)

↓ Centrifuge at 15000g, 5min

Collect ppt (remove sup)

↓ +Add 110µl of 10%DMSO in 1M NaOH Incubate at 80oC, 10min, mixing Centrifuge

Take sup 100µ

↓ Measure Abs @490nm

Melanin induction

IBMX (3-Isobutyl-1-methylanxthine; Methylisobutylxanthine; MIX) CAS 28822-58-4 sc-201188 (200mg, Santa Cruz) MW 222.24 Dissolved in 1.112ml DMSO makes 1M stock sol'n. Use 1:10000, ~48h culture Isolation of melanosomes from melanoma cell lines

Day 0 Plate Melanoma cell lines (B16 mouse melanoma, SK MEL 24 human melanoma) @3*10^5/10cm dish (10cm dish x 1 for 1 or 2 assay(s) in 1~1.5ml cell culture) Day 1 Add 1/5000~10000 IBMX Day 6 Check if cells would become darken (~144h) Collect cells by TE treatment followed by resusp w/ culture medium scraper \downarrow Pass through 25G syringe, 6 times (check breakage by Trypan blue staining) on ice \downarrow Spin @100q, 5min (swing out) Ppt. \downarrow +PBS \downarrow Spin @100g, 5min (swing out) Ppt. +500µl PBS, susp -20oC until use Thaw above \downarrow +1ml lysis buffer*, 5min, on ice \downarrow Spin @300 x q, 3min, 4oC (swing out) sup \downarrow Spin @300 x q, 3min, 4oC (swing out) sup \downarrow Spin @max speed, 3min, 4oC (swing out) Ppt \downarrow wash w/ PBS x2 Ppt \downarrow resusp in 0.1ml culture medium Add to cells (~1ml culture) for uptake experiments

*0.01% SDS, 1%Tx100, 0.1M Tris-HCl,