Microphthalmia-associated transcription factor regulates AChE expression during melanogenesis of B16F10 cells: a cholinergic regulator in pigmentation

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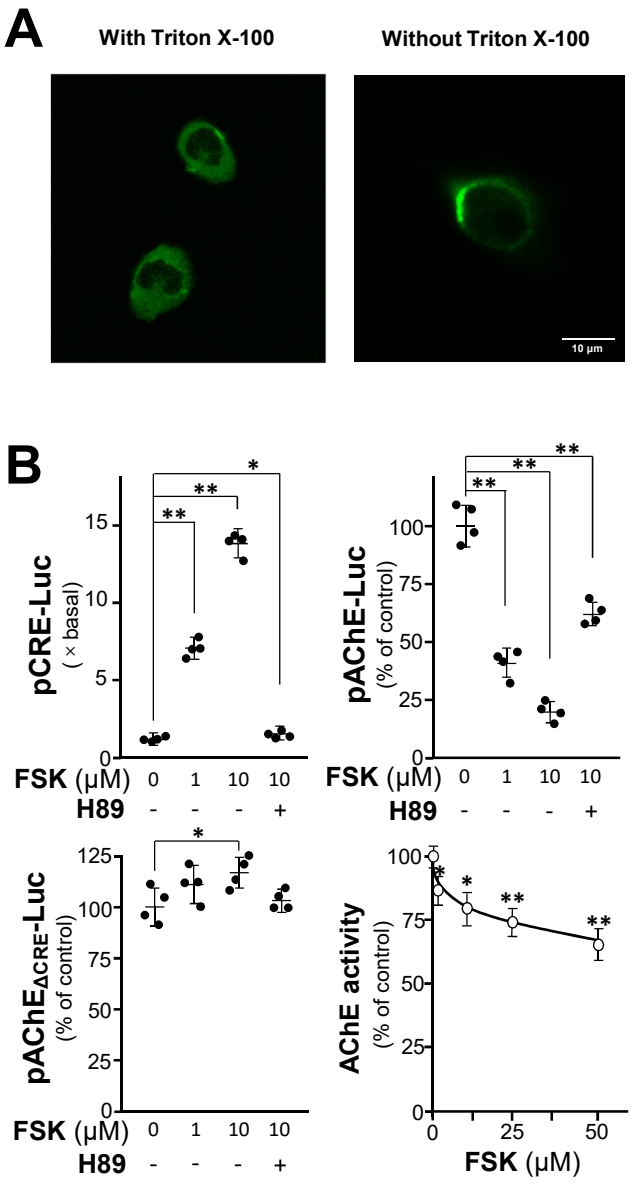

Figure S1. ***(A)*** Localization of AChE in B16F10 cells. B16F10 cells were fixed with 4% PFA for 15 min and stained with anti-AChE antibody, with or without 0.1% Triton X-100, followed with the Alexa 488 conjugated antibody. One representative result is shown, n = 4. ***(B)*** Cultured B16F10 cells transfected with pCRE-Luc, pAChE-Luc and AChE$_{\Delta CRE}$**-Luc** constructs were treated with various concentrations of forskolin (FSK) for 12 hours. H89 (10 μM) was used as a blocker of PKA. Cell lysates were collected for luciferase assay and Ellman assay.

Figure. S1
Wu et al 2018

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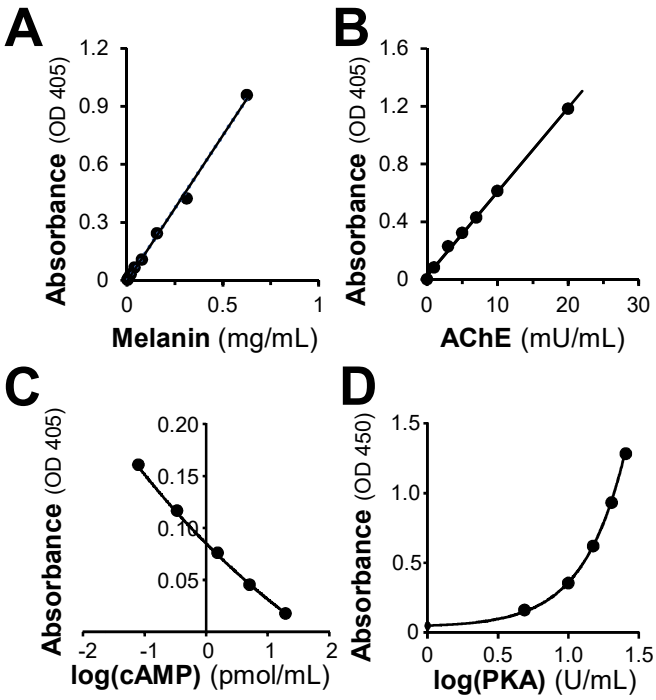

Figure S2. ***(A)*** Standard curve for synthetic melanin at concentration ranges between 0-1 mg/mL. ***(B)*** Standard curve for AChE activity ranges between 0-30 mU/mL for 30 min reaction time in Ellman assay. ***(C)*** Standard curve for cAMP ranges from 0-20 pmol/mL. ***(D)*** Standard curve for PKA activity ranges from 0-40 U/mL.

Figure. S2
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