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MC1R signaling. Intracellular Partners and Pathophysiological Implications

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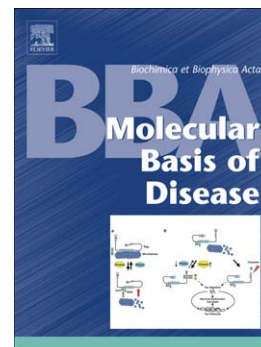
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MC1R SIGNALING. INTRACELLULAR PARTNERS AND PATHOPHYSIOLOGICAL IMPLICATIONS.

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Abbreviations: AC, adenylyl cyclase; ACTH, adrenocorticotrop hormone; ARRB, β -arrestin; ASIP, agouti signal protein; CBD103, dog β -defensin-3; CREB, cAMP responsive-element binding protein; EDN1, endothelin 1; ER, endoplasmic reticulum; ERK, extracellular signal-regulated protein kinase; Fsk, forskolin; GPCR, G protein-coupled receptor; GRK, G protein-coupled receptor kinase; HBD3, human β -defensin-3; il, intracellular loop; KSR1, Kinase Suppressor of Ras 1; MAPK, mitogen-activated protein kinase; MC, melanocortin; MCR, melanocortin receptor; MITF, Microphthalmia transcription factor; α MSH, α melanocyte-stimulating hormone; NF2, neurofibromin 2 (merlin); NHM, normal human melanocyte; NLS, nuclear localization signal; PDE, phosphodiesterase; PGC-1 α , peroxisome proliferator-activated receptor γ coactivator-1 α ; POMC, proopiomelanocortin; RHC, red hair color; ROS, reactive oxygen species; RTK, receptor tyrosine kinase; UV, ultraviolet; UVR, ultraviolet radiation; WT, wild-type.

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