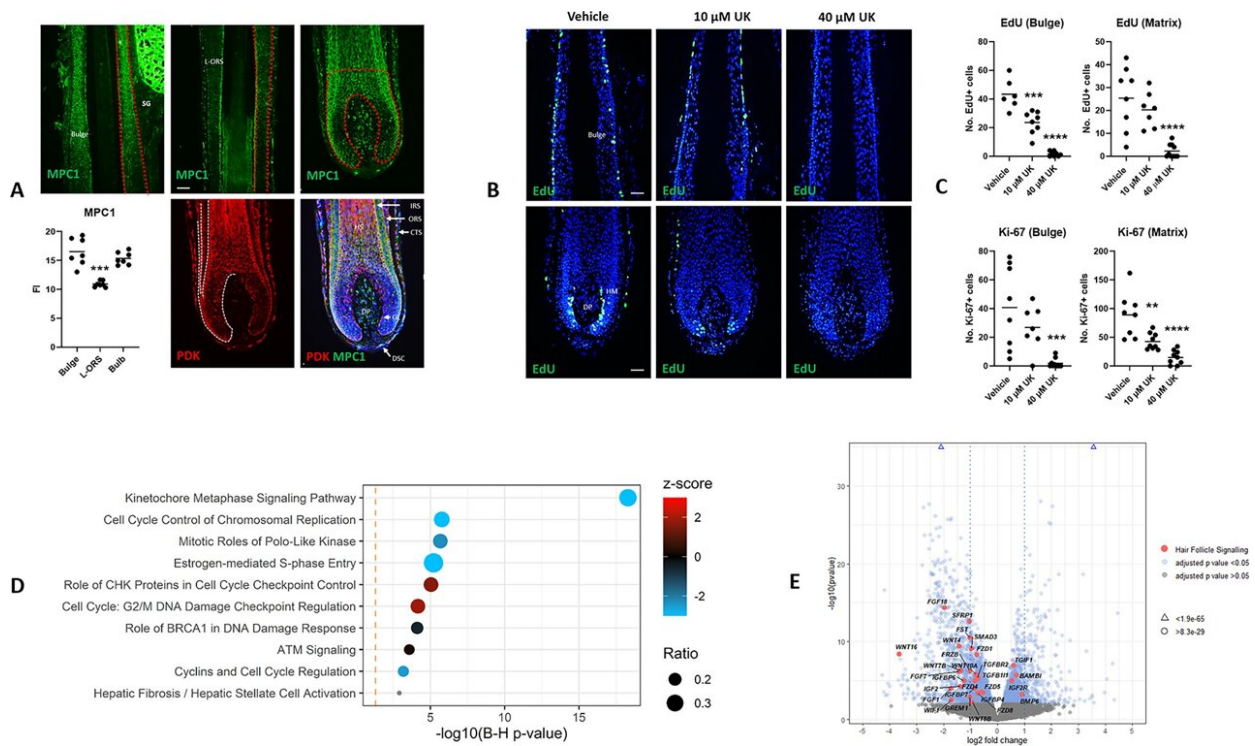


Scientists discover surprising link between ancient biology and restricted human hair growth

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MPC1 is expressed in the human hair follicle and MPC inhibition stalls cell cycle progression and disrupts the expression of hair follicle signaling pathway genes. A) MPC1 and PDK immunoreactivity in the human hair follicle. CTS–connective tissue sheath. DP–dermal papilla; DSC–dermal sheath cup; GL–germinative layer; HS–hair shaft; IRS–inner root sheath; L-ORS–lower outer root sheath; SG–sebaceous gland. Regional analysis (zones of analysis indicated by red dashed lines) performed on 7 anagen hair follicles from 3 donors. Mann Whitney test, p value *** 0.0006. Scale bar 50 μ m. B) Fluorescent

EdU labeling on human hair follicle tissue sections shows how UK-5099 treatment blocks DNA replication in the hair follicle both within the bulge epithelium and hair matrix (HM). DP—dermal papilla. Scale bar 50 μm . C) Quantitative analysis of EdU and Ki-67 in the bulge and hair matrix following UK-5099 treatment. Ordinary One-way Anova with Multiple Comparisons. EdU analyses: Adjusted p-values *** 0.0002, ****

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