Circadian Rhythm

Core Loop

CLOCK → BMAL1 → Per1/2/3 → PDE4B → PER2

HLF → Hif → CRY1/2

DBP → D-box → E4BP4

RORα, β, γ → REV-ERB

NAMPT → nicotinamide

NAD+ → SIRT1

Cry → CIPC

CREB → Rat/MEK/ERK pathway → CaMKII

Ca2+ → PKA → CRE

PER1/2 → PDE4B → PER2

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