

Melatonin is a hormone that

regulates the sleep-wake

**Epinephrine - is your energy drug.** With high levels early in the morning it gets you out of bed, with the energy for 'big work', courageous conversations, primed for anything that will cause you 'limbic friction' (challenge). Dopamine levels track with epinephrine ensuring you have the energy and motivation to take on the new day and big activities.**Cortisol, is primarily associated with stress and anger. Fight or flight.** Both increase blood pressure, blood sugars and heart contractility (squeeze value) . Cortisol can induce a change in your vision to 'tunnel' (from 180 degrees to 70-90 degrees - to focus on what is dangerous), reduces hearing (auditory exclusion) and may reduce cognitive ability (brain function transfers from

pre-frontal cortex to the cycles. High Dopamine and hippocampus - limbic). I call Cortisol inhibits Melatonin this Stress Stupid. Decreases production. Melatonin is digestion, sexual function, inhibited by blue light, stress preparing the body to run and excessive pleasure or away or fight. Inhibits the stimulation. making of Melatonin - stress **Cortisol &** = poor sleep. Symptomatic Adrenaline Melatonin in those with a hectic (epinephrine) routine. Plays an important part in regulating 5 mood, appetite, sleep and Associated with Serotonin Nor-epinephrine dreaming. hyper-alertness, Low Serotonin and essential in may be linked focus. The body to depression releases Norand anxiety. E epinephrine, in D **High levels** response to feelings of Serotonin of excitement, Dopamine Endorphins ensure the body caution or is 'primed' to anxiousness. It is release your linked to high levels sleep drug, of Dopamine and Melatonin. associated poor It signals a Highly addictive, more so Masks pain, helps us to sleep hygiene. than nicotine and alcohol. 'push' through in difficult 'completed' On waking, the circumstances. 'The runners day; one of This is your foraging and body may premotivation drug. It drives high'. From the Morphine achievement empt a 'bad day' you to move to seek family, natural opiate-peptide and signals to due to your poor chemicals released during pleasure; I refer to this the body that sleep, releasing periods of strenuous exercise, as your 'more of' drug. It one may now Nor-epinephrine, emotional stress, pain and has links to overeating, sleep. priming you to orgasm. Can also release drinking, gaming and be hyper-aware, stress and create a feeling of social media addiction. sensitive and wellbeing. cautious. Pre-limbic.

## NEUROSCIENCE

## "THERE ARE FOUR HAPPY CHEMICALS BEHIND EVERY GREAT LEADER"

Simon Senek

**Selfish chemicals** - Dopamine and Endorphins help us get things done and make it repeatable.

**Selfless chemicals** - Serotonin and Oxytocin builds trust and loyalty through affirming words or actions. They strengthen our social bonds and create meaningful connections and collaboration.

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