

Be-Baby



Unlock your baby's secret language with Be-Baby patches, the ultimate mood-ring for a little human. From 'I'm hungry' to 'It's too loud', no guessing, no panic, just pure parent superpowers.



Level 1: Detect 'ouch!'
EEG ninjas catch pain signals before the first tear. Skin sensors sniff out 'Substance P' (baby's secret pain perfume).



Level 2: Pain scout
Pain increases blood flow. Our mini BP detectives track it and share a fast diagnosis to your baby's fussiness.



Level 3: Read the mood
Hormone gossip time! Dopamine, cortisol, oxytocin, and adrenaline spill the beans on baby vibes.



Level 4: Recognition & analysis
This AI baby-whisperer blends data into easy mood alerts such as smiles, cries, yawns - synced right to your phone app.



QR code for the Be-Baby App

Inside the Box

3 smart sensory patches

Scan for the Be-Baby App

Your Baby's Mood Decoder

DISCLAIMER: Real scientific principles. Fictional ideas with a potential future.

Shaurya Sharma, AIS PV, VIII E

Owl' be watching

An Eye-Opener To Bird-Of-Prey's Night Vision

Super-creatures don't just exist in the movies; they live amongst us as well. One such mortal is the 'king of the night sky', a.k.a. the owl. Here's a question for you - what is the first thing that you



notice about owls? Surely, their large, tennis ball-sized eyes. They're no ordinary eyes; they are literal binoculars. So, let's swoop in to find out how these nocturnal birds use their extraordinary vision to catch prey in the dead of the night.

270° telescopic view

Unlike our spherical eyes, owls possess tube-shaped, elongated eyes that are held rigidly by bony structures called sclerotic rings. The tubular form allows the eyes to act like a telephoto magnifying lens, which helps them to zoom in on far-away objects - apex predator physiology! These eyes are fixed in their sockets to maximise light gathering for night vision, forcing owls to turn their heads up to 270° to view their surroundings. It is strictly an exorcist-style display of flexibility and maybe a bit flex. Humans too have binocular vision, but owls compete in

an extremely narrow field - an asset to lock-in on scrumptious gourmet meals like mice, but terrible if you are trying to find keys.

Tri-threat shield

Owls are the ultimate stealth hunters; they possess in-built gadgets such as three eyelids - one to sleep, one to blink, and one to protect. The sleeper eyelid closes when the owl sleeps, protecting the entire eyeball. The blinker eyelid is used for everyday blinking and to prevent dust invasion. The bottommost lid, called the nictitating membrane, sweeps horizontally like a windshield wiper and works like transparent goggles when the owl is nosediving on its meal, shielding them from dust and debris. With a 'visionary' device like this, there's a high probability that Batman might consider turning into an Owlman!

High-tech scotopic lens

Owl eyes are nature's night-vision goggles. Their retinas are packed with rod cells and

contain fewer cone cells, which may prevent them from seeing colours very well but are exceptional for detecting movement in dim light. With eyes this sharp, they wouldn't just catch their prey, they'd probably catch you sneaking snacks at midnight too. And guess what? Owls have a fascinating feature called the tapetum lucidum that give their eyes an eerie glow. The layer of tissue behind the retina imitates a biological mirror, giving incoming light a second chance to reach the photoreceptor cells.

The colour code

An owl's eye colour holds more than what first meets the eye. Dark retinas are often associated with species that prefer the graveyard shift, while orange or yellow eyes suggest activity at dawn and dusk. Hence, one can say that the eye colour reflects the owls' preferable workhour.

Did you know?

Even though it may seem like they belong at Hogwarts, it's not all magic. Owls cannot hunt in absolute darkness; they require a tiny bit of light from either the moon or the stars. And if they do find themselves in Stygian black, they switch to their other superpower - hearing. Truly a wizard!