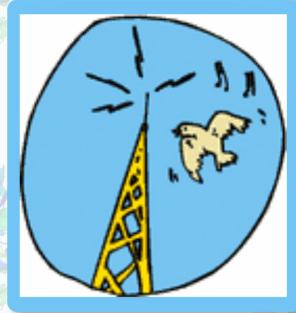


"Cryptochrome is a ubiquitous pigment in animals and plants. Plants use it to sense light to optimize their ability to photosynthesize. Animals use it to sense the direction of the Earth's magnetic field. Both animals and plants also use it to regulate their body clocks, which anticipate dawn and dusk to switch metabolism between day and night modes. In animals, it regulates the sleep-wake cycle and also the immune system, which has peak activity during the night phase (Koukkari and Sothorn 2006).

Unfortunately, radio waves badly upset the cryptochrome molecule to affect all of these functions."

Andrew Goldsworthy
 Testimony
 April 2010



CRYPTOCHROME AND EMF

What is cryptochrome?

- ★ [Plants have cryptochromes](#)
- [Shedding light on cryptochromes](#)
- [Human eye senses Earth's magnetism](#)
- ★ [Cryptochromes, magnetic sensing](#)
- [Humans have cryptochrome, ancient protein](#)
- [Cryptochromes help cell regulate DNA repair](#)



Vimeo:
[RESONANCE](#)
 Magnetite, Cryptochrome, Melatonin, EMF

Plant study Cryptochrome and Circadian Functions

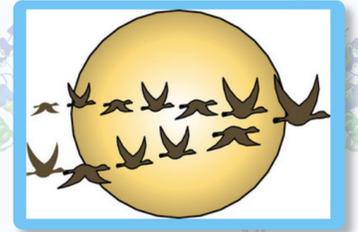
- [Plant circadian entrainment](#)
- ★ [Cell phones disturb bees](#)
- [Animal circadian entrainment](#)
- [Light and human cryptochromes](#)
- [Cryptochromes, circadian rhythms, mouse](#)
- ★ [Cell phones, cryptochrome, melatonin, disease](#)

[E-lephants](#)
 ★ [Electronic Silent Spring](#)
 Cryptochrome, EMF, more

Cryptochrome and Magnetoception



- [Superoxide mediator](#)
- [Compasses of birds](#)
- [Nature's inner compass](#)
- [MF intensity, cryptochromes](#)
- [How to See Magnetic Fields](#)



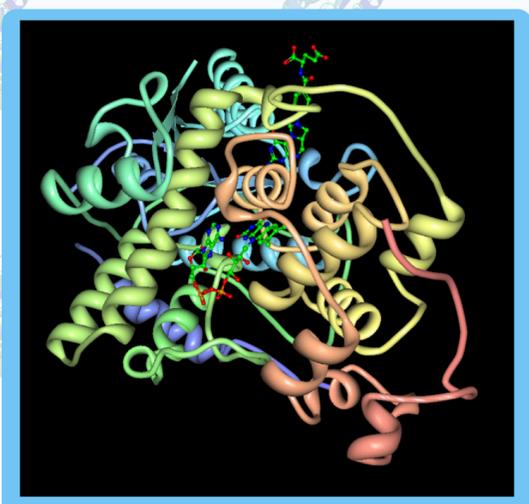
Birds, Bees, EM pollution EMF and Cryptochrome



- ★ [Wireless Devices and Wildlife](#)
- [Base station power, cryptochromes](#)
- [Cell phone radiation disturbs honey bees](#)
- [Magnetic intensity, cryptochrome, circadian rhythm](#)
- [Mobile phones, amplitude modulation, cryptochrome](#)
- [Article on bees, video, Dr. Goldsworthy, cryptochrome](#)
- [Goldsworthy 2010 witness statement, cryptochrome and more](#)
- ★ [Light-dependent magnetosens., cryptochrome, circadian rhythms flies](#)



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 Date of this update: 11-22-16



Simplified shape of cryptochrome molecule

- [Robins can see magnetic fields](#)
- [Magnetosensitivity, circadian clock](#)
- [Magnetic fields light up "GPS" neurons](#)
- [Magnetic compass of birds, visual system](#)
- [Radical pair model of avian magnetoception](#)
- [Cryptochrome 1a receptor, magnetoception, birds](#)
- [Migratory birds "see" compass with visual system](#)
- ★ [Plants, MF sensitive in blue light, cryptochromes](#)
- [Magnetically-sensitive light reactions, cryptochrome](#)
- [Radical pair mechanism for avian magnetic compass](#)
- [Birds, cryptochrome, magnetoception, what we know](#)
- [Magnetic field sensed by gene, human cryptochrome](#)
- [Stress responses, geomagnetic storms, cryptochromes](#)