

Intracellular histamine is higher when methylation is poor. Methylation is taxed by EMF stresses in the body. Any EMF will tend to raise histamine levels.

[Pfeiffer site: Scroll down to histamine](#)

[See map: Methylation, Glutathione, EMF](#)

[Histamine degradation](#)

[Oxidation \(extracellular\)](#)
[Methylation \(intracellular\)](#)

[Mast and dendritic cell markers:](#)

[Histamine](#)
[Chymase](#)
[Tryptase](#)

★ [See map: Histamine Allergies](#)

[Mast cells in normal humans, TVs, PCs](#)

[BioInitiative Report: \(Immune Chapter\)](#)

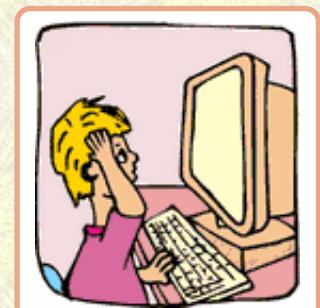
★ [Allergic Reactions Enhanced by Cell Phone Use](#)

★ [Map: Belpomme Panel for EHS, MCS](#)
[Histamine levels high, inflammatory](#)

Mast cells are similar to basophils. Both cell types are created in the bone marrow, although it is believed they come from different precursor cells. The basophils enter the blood stream, whereas the mast cells migrate to the rest of the body -- particularly to connective tissue at areas where the body meets the environment such as skin, lungs, digestive tract, etc.

They contain granules of histamine and other substances which are involved in a number of physiologic responses when released into the tissues.

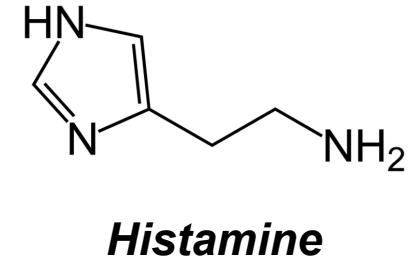
These include:
histamine mediated allergies
inflammation
healing
defense against pathogens



Studies, discussed in the BioInitiative Report Chapter on the Immune System, have found that non-ionizing electromagnetic fields have an impact on mast cell number, movement, degranulation, and symptoms produced.

How are mast cells affected by EMF?

May degranulate
May increase in number
May migrate to surface during exposure



What do mast cells do in our bodies?

Studies

- [Human skin increase](#)
- [Increase in rat skin, thyroid](#)
- [Calcium signals in mast cells](#)
- [Mast cell catecholamine changes](#)
- [Signal transduction, DNA changes](#)
- [Sensitivity of lymph node labrocytes](#)
- [Disappearance of Langerhans cells](#)
- [MW increases skin IgE production](#)
- [Increased MCs one week after exposure](#)
- [Increase of MCs in rat brain parenchyma](#)
- [Increase degranulated MCs in rat thyroid](#)
- [TV in humans causes increase, migration of MCs](#)
- [EMF plus endocrine-disrupting atrazine, mast cells](#)
- [Screen dermatitis and related MC effects in humans](#)
- [Enhancement of allergic skin wheal response, MW](#)

Other links



EMF AND THE THE MAST CELL RESPONSE: LEARNING FROM

**DR. OLLE JOHANSSON
AND OTHERS...**

["Mystery in the Skin"
Interview with Dr. Johansson](#)

[Disturbance of Immune System,
Dr. Johansson](#)

[EHS Workshop, WHO, 2006
Includes Dr. Johansson on Mast Cells](#)

[Autism and EMF?
Dr. Herbert and C. Sage mention mast cell research](#)

Cellphone allergies

Home: [Oscillatorium](#)
Newest version: [this map](#)
Date of this update: 01-10-16

Allergic to your cellphone?

[Cellphones and skin rashes](#)

[Cellphone contact dermatitis](#)

[Rash, allergic to cellphone nickel](#)



CELLPHONE DERMATITIS
Even when turned off, the substances out of which cellphones are made may be irritants.

SCREEN DERMATITIS
Some of the symptoms of screen dermatitis are itching, pain, redness and bumpy rash.

