HOW DOES EMF AFFECT PHYSIOLOGIC TISSUE? MANY MECHANISMS HAVE BEEN PROPOSED AND STUDIED. THERE ARE JUST TOO MANY VARIABLES OF INTERACTION BETWEEN COMPLEX MODULATIONS OF A WIDE SPECTRUM OF ARTIFICIALLY PRODUCED ELECTROMAGNETIC FIELDS AND THE SPONTANEOUS AND RHYTHMIC FUNCTIONS OF LIVING CELLS.

THIS MAP INDEXES OTHER MAPS AT WWW.OSCILLATORIUM.COM WHICH DISCUSS EITHER CELL TISSUES OR FUNCTIONS OR BOTH IN RELATIONSHIP TO NON-IONIZING ELECTROMAGNETIC FIELD EXPOSURES.

MAP INDEX:
Topics Pertinent to Cellular Health

INTRACELLULAR EFFECTS:

Oxidative stress
Nitrosative stress
Ion cyclotron resonance
Alterations in gene expression
Alterations of calcium movement
Magnetic fields pull on receptors
Microwave effects on cell proteins
Magnetic fields pull on cellular elements
Electric fields move charged elements
Free radical damage to genetic material

TISSUE EFFECTS:

Damage to germ cells
Loss of some cell types
Cell behavior changes
Malignant proliferation
Changes in cell maturation
Functional damage to viscera
Pervasive visceral effects
Tissues vary in sensitivity

Mechanisms for EMF Responses
Nonlinearity in EMF Responses
Bio-Effects Overview
Hormesis

Red Blood Cells

BruceBlaus

EMF and the Blood
EMF and the Immune System

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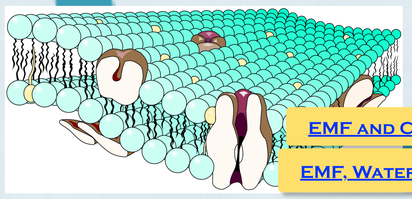
Nuclear pore
Chromatin
Nuclear envelope
Nucleus
Nucleolus

Free Radical Production, EMF
EMF and DNA, RNA
DNA as a Fractal Antenna
EMF, Membranes, Oscillations
EMF and the Multiple-Hit Model

Peroxisome
Microtubule
Lysosome
Free Ribosomes
Mitochondrion
Intermediate Filaments
Plasma membrane
Golgi vesicles (golgi apparatus)
Ribosomes
Rough endoplasmic reticulum
Smooth endoplasmic reticulum
Actin filaments

EMF and Physiologic Fluids
EMF and Interfacial Water
EMF and the Mitochondria
EMF and Mast Cells, Histamine
Overview: EMF, Cells and Tissues
Overview: EMF, Intracellular Structure

Cytoplasm
Secretory vesicle
Centrosome (with 2 centrioles)



Rationale for Nutritional Support
Methylation, Glutathione, and EMF
Cellular Triage, Nutrition, and EMF
EMF and Calcium Efflux
EMF, Water, Calcium, Membranes

Flagellum

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