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In an early Soviet study, a variety of neurological symptoms, including headaches, excitability, fatigue, and nausea, were reported in workers at ultra-high-voltage (>345 kV) switchyard stations (Asanova and Rakov, 1966; Korobkova et al., 1972).

*Biological Effects of Electric Fields: An Overview ...*

Bioelectric effects were known in ancient times from the activity of such electric fishes as the Nile catfish and the electric eel. The experiments of Luigi Galvani and Alessandro Volta in the 18th century on the

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connection between electricity and muscle contraction in frogs and other animals were of importance in the development of the sciences of physics and physiology.

*Bioelectricity | biology | Britannica*

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*Biological Effects Of Electric And Magnetic Fields Volume ...*

Electromagnetic field induced biological effects in humans Przegl Lek. 2015;72(11):636-41. Authors ... The current established standards of exposure to EMFs in Poland and in the rest of the world are based on the thermal effect. It is well known that weak EMF could cause all sorts of dramatic non-thermal effects in body cells, tissues and ...

*Electromagnetic field induced biological*

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*effects in humans*

Bioelectromagnetics, also known as bioelectromagnetism, is the study of the interaction between electromagnetic fields and biological entities. Areas of study include electromagnetic fields produced by living cells, tissues or organisms, the effects of man-made sources of electromagnetic fields like mobile phones, and the application of electromagnetic radiation toward therapies for the treatment of various conditions.

*Bioelectromagnetics - Wikipedia*

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This is the most basic and easy-to-understand effect of electricity on living tissue: current makes it heat up. If the amount of heat generated is sufficient, the tissue may be burnt. The effect is physiologically the same as damage caused by an open flame or other high-temperature source of heat, except that electricity has the ability to burn tissue well beneath the skin of a victim, even burning internal organs.

*Physiological Effects of Electricity /  
Electrical Safety ...*

thresholds for producing shock and other

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electrical effects heating is the main biological effect of the electromagnetic fields of radiofrequency fields health effects research is still preliminary and inconclusive but a growing number of studies suggest that under certain circumstances even relatively

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The first studies on the effects of pulsed electric fields on microorganisms were carried out by Sale and Hamilton in 1967-1968 (Sale and Hamilton 1967, 1968), who

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investigated the effects on the vitality of the exposed cells and the lethal effects. The reduction in vitality (up to 99.99%) following exposure to high intensity electric pulses was ascribed to the increase of the external ...

*The effects of electric, magnetic and electromagnetic ...*

A non-systematic review performed for the National Radiation Protection Board (NRPB) in the United Kingdom by Kowalczyk et al. evaluated 11 studies on the biological effects of static EF and concluded that the

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few experimental studies available did not provide evidence of adverse effects on human health. Furthermore, they concluded that the data available were not sufficient to establish a ...

*Biological effects of exposure to static electric fields ...*

The partners also studied the biological effects of the EMFs observed in electric vehicles. One of their experiments focused on cardiac cells, to check if EMFs affect the electrical processes of the heart. Other tests looked into the fields' effects on



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other types of healthy and cancerous cells.

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