

The Relevance of Discovery Science for Research on the Health Effects of EMF

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Discovery science, which presumes open inquiry, is contrasted with the currently sanctioned scientific approaches supporting regulations to establish EMF exposure control levels. Results of discovery science were included in a past regulatory guideline, but consequent reactions diminished the influence of this type of science in subsequent regulatory decisions with respect to EMF. As a result, crucial scientific evidence has been lost to EMF regulatory science decision-making, including unexpected field strength and frequency responses by biological systems, and even alternative methods of data analysis. Seen from a historic perspective, an important body of excluded scientific evidence identifies the EMF and the biological conditions within which low intensity EMF can cause biological changes in selected, sensitive biological systems. Some heuristic and some proposed theoretical models have the potential to establish a reference frame from which to test modes of action. New initiatives and organizations have offered approaches that challenge the current constrained approach to EMF regulatory science. Productive and timely future activities in the EMF-biological effects arena could produce better regulating results.