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Dear Professor,

Please find enclosed a manuscript entitled : “Local Exposures to 900-MHz GSM Microwaves Induce Plasma Protein Extravasation in the Rat Brain at Non-thermal SAR Levels” by Fatma Töre, Jean-Louis Lavie, and Pierre Aubineau, to be peer reviewed for publication in *The Lancet*.

This manuscript deals with the very controversial subject of the possible health hazards induced by GSM mobile phone microwaves and specially with those linked to the consequences of a possible permeabilization of the blood to brain endothelial barrier. Our experiments in the rat described in this paper show that at specific absorption rates compatible with telephone use GSM microwaves can permeabilize the blood-brain barrier. Due to the broad use of this type of telephones worldwide, we think that if the same phenomenon occurs in the human brain, the possibility for the rise of an important epidemiological problem in the future should be considered.

The manuscript has been written in the most concise possible way. However, should you wish to shorten it, this could be done in the “method” chapter which describes thoroughly the original system for rat exposure and the dosimetry linked to this system. In fact, the controversy about this topic largely originates in the weakness of dosimetry of most of studies. It thus appeared to us necessary to indicate precisely in the manuscript how this dosimetry was done for the present study, but this description could be summarized if necessary.

Best regards,

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