The Science Inside

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Our Ref: FOI 2021/03621

Date: 30 April 2021

Dear Mr Lewis,

Thank you for your email of 1 April 2021 requesting the following information:

> "Please would you let me have details of the short term and long term health issues caused by exposure to man made microwaves and radio waves".

We are treating your correspondence as a request for information under the Freedom of Information Act 2000 (FOIA).

A search for the information has now been completed within the Ministry of Defence, and I can confirm that information in scope of your request is held.

The information you have requested falls entirely within the scope of the absolute exemption provided for at section 21 (information accessible to applicant by other means) of the FOIA.

Under Section 16 of the Act (Advice and Assistance) we have provided a list of publications, also a link to https://www.gov.uk/government/collections/electromagnetic-fields which you may find helpful.

Bottomley, A. L., et al. (1999). Effects of ultrawide band microwave pulses on rat hearts in vitro. Electricity and Magnetism in Biology and Medicine. F. Bersani, Kluwer Academic/Plenum Publishers: 477-479.

Daniells, C., et al. (1998). "Transgenic nematodes as biomonitors of microwave-induced stress." Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis 399(1): 55-64.

de Pomerai, D., et al. (2000). "Microwave radiation induces a heat-shock response and enhances growth in the nematode Caenorhabditis elegans." IEEE Transactions on Microwave Theory and Techniques 48(11): 2076-2081.

de Pomerai, D., et al. (2000). "Non-thermal heat-shock response to microwaves." Nature 405(6785): 417-418.

de Pomerai, D., et al. (2006). "Retraction. Cell biology: Non-thermal heat-shock response to microwaves." Nature 440(23): 437.

Green, A. C., et al. (2005). "An investigation of the effects of TETRA RF fields on intracellular calcium in neurones and cardiac myocytes." International Journal of Radiation Biology 81(12): 869-885.

Mifsud, N. C. D., et al. (2007). "Temperature effects in brain slices exposed to radiofrequency fields." European Bioelectromagnetics Association Abstracts: S-3-6.

Tattersall, J. E., et al. (2001). "Effects of low intensity radiofrequency electromagnetic fields on electrical activity in rat hippocampal slices." Brain Research 904(1): 43-53.

Tattersall, J. E. H. (1999). Study of the effects of 10.75GHz microwave radiation on nicotinic acetylcholine receptor ion channels. Electricity and Magnetism in Biology and Medicine. F. Bersani, Kluwer Academic/Plenum Publishers: 577-580.

If you have any queries regarding the content of this letter, please contact this office in the first instance

If you wish to complain about the handling of your request, or the content of this response, you can request an independent internal review by contacting the Information Rights Compliance team, Ground Floor, MOD Main Building, Whitehall, SW1A 2HB (e-mail CIO-FOI-IR@mod.gov.uk). Please note that any request for an internal review should be made within 40 working days of the date of this response.

If you remain dissatisfied following an internal review, you may raise your complaint directly to the Information Commissioner under the provisions of Section 50 of the Freedom of Information Act. Please note that the Information Commissioner will not normally investigate your case until the MOD internal review process has been completed. The Information Commissioner can be contacted at: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF. Further details of the role and powers of the Information Commissioner can be found on the Commissioner's website at https://ico.org.uk/.

Yours sincerely

Dstl Secretariat