

Tierstudien: Prognosen für Karzinogenität beim Menschen

Fiorella Belpoggi,
Ramazzini-Institut, Bologna (I)

Was sich in Tierstudien als krebserregend erwies, stellte sich später immer auch als krebserregend für den Menschen heraus. Es zeichnet sich ab, dass dies auch für die Mobilfunkstrahlung zutrifft.

Referenzen

- [1] Huff J. Long-Term Chemical Carcinogenesis Bioassays Predict Human Cancer Hazards: Issues, Controversies, and Uncertainties. *Annals NY Academy of Sciences: Uncertainty In The Risk Assessment Of Environmental And Occupational Hazards: An International Workshop. Vol 895*, 56–79, 1999. <https://doi.org/10.1111/j.1749-6632.1999.tb08077.x4>
- [2] Maronpot RR, Flake G, Huff J. Relevance of animal carcinogenesis findings to human cancer predictions and prevention, *Toxicol Pathol* 2004; 32:40–9.
- [3] Huff J. Long-term chemical carcinogenesis bioassays predict human cancer hazards. *Issues, controversies, and uncertainties. Ann NY Acad Sci.* 1999; 895:56–79.
- [4] Momoli F, Siemiatycki J, McBride ML, et al. Probabilistic Multiple-Bias Modeling Applied to the Canadian Data From the Interphone Study of Mobile Phone Use and Risk of Glioma, Meningioma, Acoustic Neuroma, and Parotid Gland Tumors. *Am J Epidemiol.* 2017;186(7):885–893. <https://doi:10.1093/aje/kwx157>
- [5] International Agency for Research on Cancer (IARC), Press Release No. 208, May 31st 2011. IARC Classifies Radiofrequency Electromagnetic Fields as Possibly Carcinogenic to Humans.
- [6] Falcioni L, Bua L, Tibaldi E, Lauriola M, De Angelis L, Gnudi, F, Mandrioli D, Manservigi M, Manservigi F, Manzoli I, Menghetti I, Montella R, Panzacchi S, Sgargi D, Strollo V, Vornoli A and Belpoggi F. Report of final results regarding brain and heart tumors in Sprague-Dawley rats exposed from prenatal life until natural death to mobile phone radiofrequency field representative of a 1.8 GHz GSM base station environmental emission. *Environ. Res.* 2018, 165, 496–503. <https://doi.org/10.1016/j.envres.2018.01.037>
- [7] Wyde ME et al. 2018. National Toxicology Program Technical Report on The Toxicology and Carcinogenesis Studies in Hsd:Sprague Dawley SD Rats Exposed to Whole-Body Radio Frequency Radiation at a Frequency (900 Mhz) and Modulations (GSM And CDMA) Used by Cell Phones, National Institutes of Health Public Health Service U.S. Department of Health and Human Services.

- [8] Melnick RL. 2018. Commentary on the utility of the National Toxicology Program study on cell phone radiofrequency radiation data for assessing human health risks despite unfounded criticisms aimed at minimizing the findings of adverse health effects. *Environ Res.* 2019 Jan;168:1–6. doi: 10.1016/j.envres.2018.09.010. Epub 2018 Sep 20.
<https://www.ncbi.nlm.nih.gov/pubmed/30243215>
- [10] Cardis E, Armstrong BK, Bowman JD et al. Risk of brain tumours in relation to estimated RF dose from mobile phones: results from five Interphone countries. *Occupational and environmental medicine* 2011; 68(9):631–40. <https://doi:10.1136/oemed-2011-10015520>
- [11] Di Donato I, Federico A. News on the journal *Neurological Sciences* in 2017. *Neurol Sci* 39, 15–21 (2018). <https://doi.org/10.1007/s10072-017-3241-x>
- [12] Yang M, Guo W, Yang C et al. Mobile phone use and glioma risk: A systematic review and meta-analysis. *PLoS One.* 2017;12(5):e0175136. Published 2017 May 4.
<https://doi:10.1371/journal.pone.0175136>
- [13] Philips et al. 2018. Brain tumours: rise in Glioblastoma Multiforme incidence in England 1995–2015 suggests an adverse environmental or lifestyle factor. *Journal of Environmental and Public Health* 2018 Apr 21. <https://doi.org/10.1155/2018/7910754>
- [14] Hardell L, Carlberg M. 2016. Evaluation of Mobile Phone and Cordless Phone Use and Glioma Risk Using the Bradford Hill Viewpoints from 1965 on Association or Causation, *BioMed Research International*, Volume 2017, Article ID9218486.
https://doi.org/10.1155/2017/9218486_18
- [15] International Society of Doctors for Environment. Di Ciaula A. 2018. Apr ISDE Scientific Office International Society of Doctors for Environment. 5G networks in European Countries: appeal for a standstill in the respect of the precautionary principle.
- [16] Scientific Committee on Health, Environmental and Emerging Risks SCHEER, Statement on emerging health and environmental issues (2018). Potential effects on wildlife of increases in electromagnetic radiation – categorised as ‘3’ highest priority
https://ec.europa.eu/health/sites/health/files/scientific_committees/scheer/docs/scheer_s_002.pdf
- [17] Parliamentary Assembly of the Council of Europe, Resolution, 2011. 1815, Final Resolution.
<http://assembly.coe.int/nw/xml/XRef/Xref-XML2HTML-EN.asp?fileid=17994>
- [18] ICNIRP Guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic fields (up to 300GHz) *Health Physics* 74 (4):494–522.
<http://www.icnirp.org/cms/upload/publications/ICNIRPemfgdl.pdf>
- [19] Foster KR, Vecchia P, Repacholi MH. 2000. Science and the precautionary principle. *Science* 288:979–980.