



**NON-IONIZING RADIATION,  
PART 2: RADIOFREQUENCY  
ELECTROMAGNETIC FIELDS**

**VOLUME 102**

This publication represents the views and expert opinions of an IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, which met in Lyon, 24-31 May 2011

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**IARC MONOGRAPHS  
ON THE EVALUATION  
OF CARCINOGENIC RISKS  
TO HUMANS**

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<sup>1</sup> Working Group Members and Invited Specialists serve in their individual capacities as scientists and not as representatives of their government or any organization with which they are affiliated. Affiliations are provided for identification purposes only. Invited Specialists do not serve as meeting chair or subgroup chair, draft text that pertains to the description or interpretation of cancer data, or participate in the evaluations.

Each participant was asked to disclose pertinent research, employment, and financial interests. Current financial interests and research and employment interests during the past 4 years or anticipated in the future are identified here. Minor pertinent interests are not listed and include stock valued at no more than US\$1000 overall, grants that provide no more than 5% of the research budget of the expert's organization and that do not support the expert's research or position, and consulting or speaking on matters not before a court or government agency that does not exceed 2% of total professional time or compensation. All grants that support the expert's research or position and all consulting or speaking on behalf of an interested party on matters before a court or government agency are listed as significant pertinent interests.

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<sup>2</sup>René de Seze received significant research support (more than €100 000, ceased in 2009) from Fondation Santé et Radiofréquences, a research foundation created under the leadership of the French Ministry of Research and with public interest status. Half of the budget is state funded, the other half is provided by industry. The Foundation's independence and the transparency of its operations are guaranteed by its Ethics Charter. In 2009, René de Seze prepared a report for a plaintiff's lawyer on the association between radiofrequency fields and brain cancer.

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<sup>3</sup>Meike Mevissen receives research funding for gene-pathway effects of radiofrequency electromagnetic fields from Forschungsstiftung Mobilfunk, a non-profit-making research foundation at ETH Zurich. Neither industry, nor non-governmental organizations are represented on the scientific board of the foundation.

<sup>4</sup>Martin Rösli receives research funding for studies on adverse health effects of mobile-phone use from Forschungsstiftung Mobilfunk, a non-profit-making research foundation at ETH Zurich. Neither industry, nor nongovernmental organizations are represented on the scientific board of the foundation. He also serves as a member on the board of this foundation.

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<sup>5</sup> Malcolm Sim owns stock (less than €5000) in Telstra, an Australian telecommunication-service provider.

<sup>6</sup> Luc Verschaeve's research institute received a small research grant (less than €5000, ceased in March 2011) from the GSM Operators Forum on environmental effects of mobile-phone base stations.

<sup>7</sup> Anders Ahlbom served (until May 2011) on the Board of Directors of Gunnar Ahlbom AB, a consulting firm in the domains of European Union affairs, especially within telecommunications.

<sup>8</sup> Niels Kuster is Director and Board member of the non-profit IT'IS Foundation that performs exposure assessments for industry and governments, and also President of the Board and shareholder of Near-Field Technology AG, a holding controlling two companies, SPEAG and ZMT, that are active in the development of near-field measurement instruments, simulation software and medical-test equipment.

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<sup>9</sup> Each Observer agreed to respect the Guidelines for Observers at IARC Monographs meetings. Observers did not serve as meeting chair or subgroup chair, draft any part of a Monograph, or participate in the evaluations. They also agreed not to contact participants before the meeting, not to lobby them at any time, not to send them written materials, and not to offer them meals or other favours. IARC asked and reminded Working Group Members to report any contact or attempt to influence that they may have encountered, either before or during the meeting.

<sup>10</sup> Joe Elder is self-employed as a radiofrequency bioeffects consultant. He was employed by Motorola (until 2009) and his wife holds stock in Motorola. His participation as an Observer in this IARC Monographs meeting is sponsored by the Mobile Manufacturers Forum representing manufacturers of mobile and wireless communication devices and the network infrastructure that supports them.

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<sup>11</sup> Jack Rowley is employed by the GSM Association whose member companies use radiofrequency radiation to deliver communication services. He has represented the GSM Association in government inquiries in North America and at workshops organized by the European Commission and national authorities. His participation as an Observer in this IARC Monographs meeting is sponsored by the GSM Association.

<sup>12</sup> Mays Swicord worked as a consultant for Motorola (until 2008). His participation as an Observer in this IARC Monographs meeting is sponsored by CTIA – The Wireless Association.