GENE-ENVIRONMENT INTERACTIONS IN RELATION TO CARCINOGENESIS

Acronym: GENIRCA
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Applicable Instrument: Network of Excellence
Sub-Thematic Priority most relevant to your topic:
1.1.1.i Advanced genomics and its applications for health
Other relevant Sub-Thematic Priorities:
1.1.1.ii Combating major diseases

Abstract:
Cancer remains an important public health issue, despite major breakthroughs in the identification of major cancer-causing gene mutations and environmental factors, as well as essential cancer-related cell signaling aberrations. This is most probably due to the fact that cancer is a complex disease which shows extreme heterogeneity between tissues, individuals and even population groups. To deal with such complexity, we propose to establish a multi-disciplinary task-force through a European network of excellence regrouping centers working on cancer initiating molecular events, genetic susceptibility and environmental factors. By doing so, we hope to integrate cancer data using bioinformatics tools to construct type-specific virtual cancer cells. We believe that such knowledge bases will be useful for in silico prediction of cancer susceptibility and cancer prevention.

Additional document: genircashort.doc

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