Determining (epi)genetic therapeutic signatures for improving lung cancer prognosis

Fact Sheet

Project Information

CURELUNG

Grant agreement ID: 258677

Project website

Status
Closed project

Start date
1 January 2011

End date
30 June 2014

Funded under
FP7-HEALTH

Overall budget
€ 3 849 117,33

EU contribution
€ 2 965 749

Coordinated by
FUNDACIO INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVTGE
Spain

Objective

Lung cancer (LC) is still the most lethal type of cancer worldwide. The extremely poor prognosis for LC patients is partly due to the lack of effective therapies. At present, most patients with pulmonary carcinomas are treated with chemotherapy. This essentially consists of classic cytotoxic drugs which only improve survival in small cohorts in few cases. In spite of the rapidly growing understanding of the epigenetic and genetic profile of LC, such knowledge has contributed little to improving therapeutics. This scenario, however, is likely to change soon because several specific cancer therapies, targeting molecules that are altered in cancer, are being developed or are already undergoing clinical trials. Thinking ahead, our proposal
focuses, on the one hand, on validating novel and specific therapeutic strategies, with particular emphasis on discovering (epi)genetic alterations that could act as novel targets for therapies, and, on the other, on defining the (epi)genetic markers that could determine the efficacy response or resistance to targeted therapies as well as the acquired resistance of the tumours to therapy. To reach our goals, we have designed an integrative and interdisciplinary approach involving leading European clinical scientists of international renown with prominent preclinical and basic research groups using high throughput and state-of-the art platforms for genomics and gene expression analysis. To date, no such comprehensive information exists. The results will be of great value for the stratification of lung tumours according to their genetic background for tailored treatments. The development of an (epi)genetic-based therapeutic prediction model will hopefully set the basis for future tailored treatment of LC as well as of other epithelial cancers.

Field of science

/medical and health sciences/clinical medicine/oncology/cancer

Programme(s)

Topic(s)

Call for proposal

FP7-HEALTH-2010-two-stage

Funding Scheme

CP-FP - Small or medium-scale focused research project

Coordinator

FUNDACIO INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE

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Avenida Gran Via Hospitalet
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EU contribution

€ 798 520

Activity type
Research Organisations

Spain
## Participants (10)

<table>
<thead>
<tr>
<th>Organisation Name</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity Type</th>
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<tbody>
<tr>
<td>THE UNIVERSITY OF LIVERPOOL</td>
<td>United Kingdom</td>
<td>€ 298 370</td>
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</tbody>
</table>
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