Objective

The aim of the present project is to answer fundamental questions about how to introduce chirality into a variety of carbon nanostructures and how it modifies the properties in the search for new applications in materials science and nanotechnology. Thus, it describes a fundamental and technological research program designed to gain new knowledge for the development of novel covalent and supramolecular chiral carbon nanoforms, and their further chemical modification for the preparation of sophisticated supramolecular 3D nanoarchitectures. Our research activity should reinforce and integrate the strong position of Europe in the knowledge of carbon nanoforms.

This important scientific challenge has not been properly addressed so far due to the inherent difficulties to work on these materials and, particularly, to the lack of an efficient chemical protocol to prepare chiral carbon nanoforms.

Programme(s)

FP7-IDEAS-ERC - Specific programme: "Ideas" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)
**Topic(s)**

ERC-AG-PE5 - ERC Advanced Grant - Materials and Synthesis

**Call for proposal**

ERC-2012-ADG_20120216

See other projects for this call

**Funding Scheme**

ERC-AG - ERC Advanced Grant

**Principal Investigator**

Nazario Martín (Prof.)

**Host institution**

UNIVERSIDAD COMPLUTENSE DE MADRID

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<th>Address</th>
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<th>EU Contribution</th>
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<tr>
<td>Avenida De Seneca 2 28040 Madrid</td>
<td>Higher or Secondary Education Establishments</td>
<td>€ 2 235 000</td>
</tr>
</tbody>
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Spain

Website

Contact the organisation

Principal Investigator: Nazario Martín (Prof.)

Administrative Contact: Luis Lopez De Ayala Hidalgo (Mr.)

**Beneficiaries (1)**
UNIVERSIDAD COMPLUTENSE DE MADRID

Spain

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€ 2,235,000

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