


Information to be requested from all CA17104 participants:

	
<b>Indicate your Working Group(s) in COST Action17104:</b>	<b>Working Group 2 (WG2)</b> Synthesis and nanodelivery strategies for new therapeutic tools against MDR tumours
<b>First Name:</b>	<b>Chrstina</b>
<b>Surname:</b>	<b>Banti</b>
<b>Department</b>	Department of Chemistry,
<b>Primary Institution</b>	University of Ioannina, GREECE ( <a href="https://www.uoi.gr/">https://www.uoi.gr/</a> )
<b>Address of Primary Institution</b>	<b>Univeristy of Ioannina, Deparmtend of Chemistry, Applied Bioinorganic Chemistry Laboratory, 45110 Ioannina, Greece</b>
<b>Other institutions</b>	<b>Institute of Materials Science and Computing, University of Ioannina, Greece</b>
<b>Telephone:</b>	<b>x30 26510 08362</b>
<b>e-mail:</b>	<b>cbanti@uoi.gr</b>
<b>Link to webpage with biography:</b>	
<b>Link to webpage with group</b>	<b><i><a href="http://users.uoi.gr/shadjika/Hadjikakou_1/Hadjikakou_01.htm">http://users.uoi.gr/shadjika/Hadjikakou_1/Hadjikakou_01.htm</a></i></b>

<b>description:</b>	
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<b>Orcid ID or Scopus ID</b>	Orcid ID: 0000-0001-6727-2711 Scopus ID: 46860923200
<b>Linkedin</b>	
<b>Expertise relevant for this COST Action:</b>	<p><b>Research Interest</b></p> <ul style="list-style-type: none"> <li>• The Discovery and development of new therapeutic anticancer agents;</li> <li>• The Conjugation of Metals with Drugs (CoMeDs) against cancer cells or microbes</li> <li>• The synthesis of Small Bioactive Molecules (SBaMs) against cancer cells or microbial cultures</li> <li>• The study of the binding affinity of CoMeDs or SMaMs to biological targets (DNA, enzymes, lipinds) which modulates cell's function <ul style="list-style-type: none"> <li>• Synthesis and characterization of nanomaterials with biological interest, the inoculation of new small bioactive molecules or modified drugs into micelles and liposomes in order to increase their bioactivity.</li> </ul> </li> </ul>
<b>Available facilities to conduct work, relevant for this COST Action:</b>	<p>The Biological Inorganic Chemistry Laboratory of the University of Ioannina-Greece has the essential equipment for the synthesis and characterization of new compounds. These include:</p> <ul style="list-style-type: none"> <li>• FT-IR, UV-Vis and Fluorescence spectrophotometer</li> <li>• Cryoscope for MW determination,</li> <li>• Elemental analyzer (C,H,N,S),</li> <li>• Viscometer for DNA experiments</li> <li>• Conductimeter for micelles</li> <li>• Stereoscope for single crystals, Polar light microscope</li> <li>• Thermostatically controlled water-baths,</li> <li>• All equipments and instruments for the synthesis under inert condition (vacuum lines, inert gas, Schlenk glass, glove bag etc).</li> </ul> <p>The infrastructure for the biological inorganic chemistry experiments include</p> <ul style="list-style-type: none"> <li>• Laminar flow cabinet biosafety class I for microbes,</li> <li>• Laminar flow cabinet biosafety class II for cells</li> </ul>

	<ul style="list-style-type: none"> <li>• CO2 incubator for cells,</li> <li>• Incubator for microbes,</li> <li>• Elisa</li> <li>• Phase contrast microscope</li> <li>• Fluorescence microscope</li> <li>• Gel Electrophoresis Equipment and Transilluminators</li> <li>• Automated Climate Control System (Light, Temperature, Humidity)</li> <li>• Aquarium for Artemia salina larvae hatching</li> <li>• Refrigerators, Freezer -80 °C.</li> </ul> <p>The staff of the Biological Inorganic Chemistry Laboratory have access to Departmental</p> <ul style="list-style-type: none"> <li>• Single and Powder X-Ray diffractometers,</li> <li>• NMR 500, 400 and 250 MHz,</li> <li>• ESI-MS, HRMS</li> <li>• Flow cytometer</li> <li>• XRF spectrometer</li> </ul>
<p><b>Materials/Methods that could be shared with other members of this COST Action:</b></p>	<ul style="list-style-type: none"> <li>• Synthesis and characterizations of new bioactive agents</li> <li>• Synthesis and characterizations of micelles, hydrogels, liposomes etc of bioactive agents</li> <li>• Normal and Cancer cells cultures, cells lines</li> </ul>

NOTE: By submitting this form to the Grant Manager of CA17104, I agree that this information can be used within the scope of this COST Action (e.g. may be included on the webpage of CA17104).