HiPerNav
Project ID: 722068
Funded under: H2020-EU.1.3.1. - Fostering new skills by means of excellent initial training of researchers

High Performance Soft-tissue Navigation

From 2016-11-01 to 2020-10-31, ongoing project | HiPerNav Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<td>EUR 4 041 920,04</td>
<td>MSCA-ITN-2016 - Innovative Training Networks</td>
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<th>EU contribution:</th>
<th>Call for proposal:</th>
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<th>Coordinated in:</th>
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<td>Norway</td>
<td>MSCA-ITN-ETN - European Training Networks</td>
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Objective

Primary liver cancer, which consists predominantly of hepatocellular carcinoma (HCC), is the fifth most common cancer worldwide and the third most common cause of cancer mortality. A successful surgical resection of HCC requires complete removal of the tumour while sparing as much healthy tissue as possible. Due to technical and clinical difficulties relatively low percentage of patients are eligible for resection. There is an urgent need to increase the patient eligibility and improve the survival prognosis after liver interventions. HiPerNav will train early stage researchers (biomedical engineers and medical doctors) to become international leading in key areas of expertise through a novel coordinated plan of individual research projects addressing specific bottlenecks in soft tissue navigation for improved treatment of liver cancer. The multi-disciplinary dialogue and work between clinicians and biomedical engineers is crucial to address these bottlenecks. By providing researchers with knowledge and training within specific topics from minimally invasive treatment, biomedical engineering, research methodologies, innovation and entrepreneurship, the link between academic research and industry will be strengthened. This allows for easy transfer of promising results from the research projects to commercially exploitable solutions. The global image guided surgery devices market is promising; it was valued at USD 2.76 billion in 2013 and is projected to expand 6.4% from 2014 to 2022 to reach USD 4.80 billion in 2022. The market for soft-tissue navigation is still in its infancy, mainly due to challenges in achieved accuracy for targeting deformable and moving organs. By providing multi-disciplinary training, the researchers in this consortium of international leading research institutions, universities and industry will initiate true translational research from academic theoretical ideas to the clinical testing of prototype, developed solutions and tools.

Related information

| Report Summaries | Periodic Reporting for period 1 - HiPerNav (High Performance Soft-tissue Navigation) |
Coordinator

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EU contribution: EUR 755 448,55

Activity type: Higher or Secondary Education Establishments
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EU contribution: EUR 495 745,92

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EU contribution: EUR 572 550,48

Activity type: Higher or Secondary Education Establishments
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EU contribution: EUR 262 875,60

Activity type: Higher or Secondary Education Establishments
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EU contribution: EUR 265 226,76

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