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A new neuroimaging modality: from bench to bedside

Berichterstattung

Projektinformationen

FUSIMAGINE

ID Finanzhilfvereinbarung: 339244

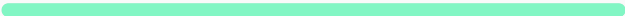
Projekt abgeschlossen

Startdatum

1 Mai 2014

Enddatum

29 Februar 2020



Finanziert unter

Specific programme: "Ideas" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)


Gesamtkosten

€ 2 497 603,00

EU-Beitrag

€ 2 497 603,00

Koordiniert durch

INSTITUT NATIONAL DE LA
SANTE ET DE LA RECHERCHE
MEDICALE
 France

Final Report Summary - FUSIMAGINE (A new neuroimaging modality: from bench to bedside)

In the last decade, ultrasound imaging has gained new capabilities and produced new insights in the field of neuroscience. The development of new concepts, such as ultrafast ultrasound, has enhanced Doppler sensitivity by orders of magnitude and has paved the way for ultrasonic functional neuroimaging. Thanks

to ERC grant FUSIMAGINE, we developed and positioned functional ultrasound (fUS imaging) as a unique and new modality in the field of neuroimaging filling a gap between cellular level and whole brain imaging.

We made the first proof of concepts of fUS imaging in awake and freely moving animals, during sleep, during complex cognitive tasks. We also gave the first proofs of concept of functional ultrasound imaging during peroperative imaging in humans and non-invasive transfontanellar imaging in human neonates. Finally we demonstrated full 4D fUS imaging in rodents and paved the way to a wide dissemination of ultrasonic neuroimaging with the creation of Iconeus startup company within the framework of the project.

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Permalink: <https://cordis.europa.eu/project/id/339244/reporting/de>

European Union, 2025