

SELECTION OF RECENT STRIKING FACTS WITHIN BB@C



INNOVATIVE TOOLS (AVAILABLE FOR BB@C'S PARTNERS AND OUTSIDE):

- ▶ Normandy-Stroke register (<https://www.avc-normandie.fr>) ; Biobank of stroke patients blood samples (Biostroke, <https://www.chu-caen.fr/crb.html>).
- ▶ The platform IBISA Experimental Stroke Research Platform is developing, including now 3 platforms: Research (surgery), Recovery and Ressources (biobanking) (<http://www.esrp.fr>)
- ▶ New strains of transgenic mice are coming soon (GluN1 K178V and ptPA-CRE-GFP)
- ▶ A large RNASeq program has been initiated to generate big data focused on tPA functions and dysfunctions



NEW ARRIVALS TO IMPROVE THE EXCELLENCE OF OUR RESEARCH

- ▶ **Mario MERLINI** (California, US), chair of excellence, Normandie Council "Cognitive and psychiatric disorders: roles of the blood brain barrier"
- ▶ **Emmanuelle DUBOST** (Caen), chair of excellence, Normandie Council, "Hyperpolarised Xenon for brain molecular imaging"
- ▶ **Eloise LEMARCHANT** (Manchester, UK), FRM fellow, ANR JCJC 2021 «tPA and microglia following stroke"
- ▶ **Manuel NAVARRO** (Pampluna, Spain), Fond. Groupama, « cerebral vasculitis»
- ▶ November 2021, post doc **Alexandrine MORAND** Relationships between functional connectivity, structural connectivity and neuropsychological abilities in alcohol use disorder with and without Korsakoff syndrome
- ▶ Mai 2022, **Antoine FOURNIER** (Canada), BB@C fellow, « endothelial cells and inflammation"



NEW ACQUISITIONS INVESTMENTS FOR FUTURE RESEARCH PROGRAMS

- ▶ Hypoxia chamber; Two-photon microscope; Mesoscale Discovery set-up (biomarkers, site CRB InnovaBIO); Magnetic Particle Imaging @ Cyceron (coming soon).



VALORISATION STARTUPS

- ▶ 2 new patents for in vivo molecular brain imaging – biodegradable iron particles for MRI, MPI and multimodal imaging.
- ▶ 1 new startup, Lys Therapeutics (Lys-Therapeutcis.com), "grand prix" I-LAB 2021



OTHERS

- ▶ New funded programs: 5 ANR 2020, 1 ANR 2021, 2 H2020 European programs (2020-2021), 1 France Life Imaging program
- ▶ 21 international publications in 2021
- ▶ 12 BB@C invited Seminars organized, 1 full day meeting BB@C – ICM (Institut du Cerveau de Paris), ISFP@PA webinar (<https://www.fibrinolysis.org/meetings>)

 For more information, please visit bb-c.fr  



THANK YOU TO ALL OUR PARTNERS:

REGION NORMANDIE
INSERM
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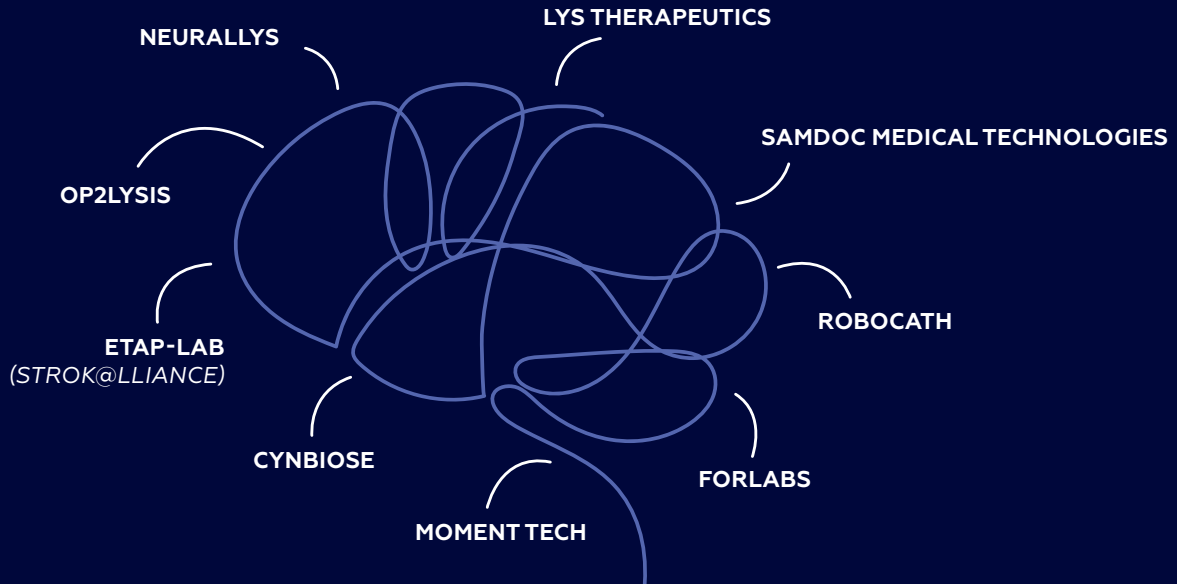
BB@C

BLOOD & BRAIN @ CAEN NORMANDIE
INSERM/ CAEN NORMANDIE UNIVERSITY AND HOSPITAL

A team at the service of science.
From basic to clinical research.

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START-UPS & PRECLINICAL CROs



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RESEARCH LABORATORIES

UMR-S U1237

Physiopathology and Imaging of Neurological Disorders (PhIND), Denis Vivien.

Team A : tPA and Neurovascular Disorders, Denis Vivien.

Team B : Serine Proteases, Inflammation and Glial cells, Fabian Docagne.

Team C : Multimodal Neuroimaging and Lifestyle in Ageing and Alzheimer's Disease, Gael Chetelat.

JUNIOR TEAM CLASS 2020

Neurovascular mechanisms underlying neuropsychiatric symptoms and associated cognitive deficits in neurodegenerative and psychiatric disorders, Mario Merlini.

ISTS, EA 7466

Imaging and Therapeutic Strategies for Schizophrenia, Sonia Dollfus.

CERMN, EA 4258

Centre d'Etudes et de Recherches sur le Médicament de Normandie Institut Carnot I2C / EUR XL-CHEM,

Patrick Dallemagne. Diagnostic tools group, Thomas Cailly.

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TECHNICAL PLATFORMS

ESRP

Experimental Stroke Research Platform, IBiSA, Cyrille Orset, Benoit Haelewyn, Denis Vivien.

CYCERON BIOMEDICAL IMAGING UMS 3408

Preclinical and clinical imaging, IBiSA, Benoît Haelewyn.

CRB-InnovaBIO

Center for Biological Resources, CHU de Caen Normandie NFS 96-900, Denis Vivien.

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POPULATION-BASED STUDY WITH COHORT

NORMANDYSTROKE

CHU de Caen Normandie, Emmanuel Touzé.



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