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| BIOGRAPHICAL SKETCHProvide the following information for the proposed network coordinators and members Follow this format for each person.  |
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| NAMEBonnard, Thomas | POSITION TITLEResearcher CRCN - Inserm |

| INSTITUTION AND LOCATION | DEGREE(if applicable) | Completion DateMM/YYYY | FIELD OF STUDY |
| --- | --- | --- | --- |
| Paris Sorbonne Cité University (Paris, France) | PhD | 2014 | Biology and medical engineering sciences |
| Australian Centre for Blood Diseases (Melbourne) | Postdoctoral | 2018 | Cancer research/ molecular biology |
| Caen Normandy University (France) | HDR | 2022 | Neurosciences |

1. **Positions and Honors**

**2022-x** Co-leader of the Imaging team, PhIND laboratory**; 2019-x** CRCN INSERM UMR-S PhIND “Physiopathology and Imaging of Neurological Disorders” (phind.fr), Phind.fr, Caen, France**; 2021-2023** Chair of the MCAA “Marie Curie Alumni Association” France Chapter**; *2017-2018*** Postdoctoral researcher in the Dijkhuizen lab, UMC – Utrecht Medical Centre, Netherlands**; 2015-2017** Postdoctoral researcher NanoBiotechnology lab, Australian Centre for Blood Diseases, Monash University, Melbourne, Australia**; 2014-2015** Research Officer, Vascular Biotechnology Laboratory, Baker IDI Heart and Diabetes Institute, Melbourne, Australia**; 2010 - 2014** PhD candidate Laboratory for Vascular Translational Sciences (LVTS, Inserm U1048)**;**

**Honors: 2016**  D. Collen Young Investigator Award, International Society of Fibrinolysis and Proteolysis & Plasminogen Activation joint meeting (ISFP&PA, Shizuoka, 2016)**; 2015**  Best Early Career Researcher Oral Presentation of the Australian Vascular Biology Society (AVBS, 2015, Sydney). **2016** Young Investigator Award of the Magnetic Resonance Angiography society (MRA, 2013, New York).

**Invited talks** (past 5 years)**:** 8 seminars and invited speaker (5 international)

1. **Most Important Recent Publications - Publications: Scopus H-index: 59**
2. Jacqmarcq C., Picot A., Flon J., Lebrun F., Martinez de Lizarrondo S., Naveau M., Bernay B., Goux D., Rubio M., Malzert-Fréon A., Michel A., Proamer M., Mangin P., Gauberti M., Vivien D.\***,** **Bonnard T\***, \* corresponding authors. MRI-Based Microthrombi Detection in Stroke with Polydopamine Iron Oxide. **Nature Communications, 2024** Jun 13;15(1):5070. PMID: 38871729
3. Franx BA, Lebrun F, Chin Joe Kie L, Deffieux T, Vivien D, **Bonnard T**, Dijkhuizen RM; CONTRAST consortium. Dynamics of cerebral blood volume during and after middle cerebral artery occlusion in rats - Comparison between ultrafast ultrasound and dynamic susceptibility contrast-enhanced MRI measurements. **J Cereb Blood Flow Metab**, **2024** Mar;44(3):333-344. doi: 10.1177/0271678X231220698. Epub 2023 Dec 21.
4. Martinez de Lizarrondo S, Jacqmarcq C, Naveau M, Navarro-Oviedo M, Pedron S, Adam A, Freis B, Allouche S, Goux D, Razafindrakoto S, Gazeau F, Mertz D, Vivien D, Bonnard T\*, Gauberti M\*. corresponding authors. Tracking the immune response by MRI using biodegradable and ultrasensitive. **Science Advances**, **2022** Jul 15;8(28):eabm3596. doi: 10.1126/sciadv.abm3596. Epub 2022 Jul 13.
5. van Moorsel MVA, de Maat S, Vercruysse K, van Leeuwen EM, Jacqmarcq C, **Bonnard T**, Vivien D, van der Worp HB, Dijkhuizen RM, Maas C. VWF-targeted thrombolysis to overcome rh-tPA resistance in experimental murine ischemic stroke models. Blood, 2022 Dec 29;140(26):2844-2848. doi: 10.1182/blood.2022016342. PMID: 35960811
6. Franx BAA, Van der Toorn A, Van Heijningen C, Vivien D, **Bonnard T\***, Dijkhuizen RM**\***. \* corresponding authors. Molecular Magnetic Resonance Imaging of Vascular Inflammation After Recanalization in a Rat Ischemic Stroke Model. Stroke. 2021 Dec;52(12):e788-e791. doi: 10.1161/STROKEAHA.121.034910. Epub 2021 Oct 22. PMID: 34674544

**Publications related to the proposed network program**

1. Jacqmarcq C., Picot A., Flon J., Lebrun F., Martinez de Lizarrondo S., Naveau M., Bernay B., Goux D., Rubio M., Malzert-Fréon A., Michel A., Proamer M., Mangin P., Gauberti M., Vivien D.\***,** **Bonnard T\***, \* corresponding authors. MRI-Based Microthrombi Detection in Stroke with Polydopamine Iron Oxide. **Nature Communications, 2024 Jun 13**;15(1):5070. PMID: 38871729
2. Franx BA, Lebrun F, Chin Joe Kie L, Deffieux T, Vivien D, **Bonnard T**, Dijkhuizen RM; CONTRAST consortium. Dynamics of cerebral blood volume during and after middle cerebral artery occlusion in rats - Comparison between ultrafast ultrasound and dynamic susceptibility contrast-enhanced MRI measurements. **J Cereb Blood Flow Metab**, **2024 Mar;**44(3):333-344. doi: 10.1177/0271678X231220698. Epub 2023 Dec 21.
3. Martinez de Lizarrondo S, Jacqmarcq C, Naveau M, Navarro-Oviedo M, Pedron S, Adam A, Freis B, Allouche S, Goux D, Razafindrakoto S, Gazeau F, Mertz D, Vivien D, Bonnard T\*, Gauberti M\*. corresponding authors. Tracking the immune response by MRI using biodegradable and ultrasensitive. **Science Advances**, **2022** **Jul 15**;8(28):eabm3596. doi: 10.1126/sciadv.abm3596. Epub 2022 Jul 13.
4. van Moorsel MVA, de Maat S, Vercruysse K, van Leeuwen EM, Jacqmarcq C, **Bonnard T**, Vivien D, van der Worp HB, Dijkhuizen RM, Maas C. VWF-targeted thrombolysis to overcome rh-tPA resistance in experimental murine ischemic stroke models. **Blood, 2022 Dec 29**;140(26):2844-2848. doi: 10.1182/blood.2022016342. PMID: 35960811
5. Franx BAA, Van der Toorn A, Van Heijningen C, Vivien D, **Bonnard T\***, Dijkhuizen RM**\***. \* corresponding authors. Molecular Magnetic Resonance Imaging of Vascular Inflammation After Recanalization in a Rat Ischemic Stroke Model. **Stroke. 2021 Dec**;52(12):e788-e791. doi: 10.1161/STROKEAHA.121.034910. Epub 2021 Oct 22. PMID: 34674544
6. **Bonnard T**, Gauberti M, Martinez de Lizarrondo S, Campos F, Vivien D.Recent Advances in Nanomedicine for Ischemic and Hemorrhagic Stroke. **Stroke. 2019** May;50(5):1318-1324. doi: 10.1161/STROKEAHA.118.022744. PMID: 30932782
7. **Bonnard T**, Jayapadman A, Putri JA, Cui J, Ju Y, Carmichael C, Angelovich TA, Cody SH, French S, Pascaud K, Pearce HA, Jagdale S, Caruso F, Hagemeyer CE. Low-Fouling and Biodegradable Protein-Based Particles for Thrombus Imaging. **ACS Nano. 2018 Jul 24**;12(7):6988-6996. doi: 10.1021/acsnano.8b02588. Epub 2018 Jun 7. PMID: 29874911
8. **Current grant support among others** (direct funds to Vivien Lab) - **2022-25** Research Acceleration Initiative CSL-Behring 180 000 € - **2024-2026** Fédération Française Cardiologie (FFC, Projet Recherche Collaboratif) 173 255.82 €,  grant agreement No 964215 - The meninges as a new player in post-stroke recovery (PI) Euro; 315.000- **2025-2028** ANR ISCheMAG hyperthermia enhanced thrombolysis, Partner, 619 746 €
9. **Previous experience in collaborative research - 2020-24:** ANR JCJC, Développement d’un agent de contraste bio-inspiré pour l’IRM moléculaire – pHySIOMIC; 2019. RIN Doctorant projet MoDiREM molecular imaging of microthrombi in Ischemic Stroke. **2015-18**. - Postodoctoral fellowship from the William Harvey International Translational Research Academy (WHRI-ACADEMY), COFUND Marie Curie Actions (People programme FP7); **2017** Collaborative Seed Grant Initiative from the AMREP EMCR. **2018** - Caen Normandy University Postdoctoral Fellowship