

Principal Investigator

Personal Information

Name : Vincent DOUSSET

Data of birth : September 11th, 1961

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Bio-sketch

Vincent DOUSSET was born in 1961, qualified as an MD specialist in Radiology and Medical Imaging in 1991. He trained as a Research Fellow at the University of Pennsylvania in the Department of Radiology and Nuclear Medicine in 1990 and 1991. During that period, he was introduced to pre-clinical research on a model of inflammatory disease of the CNS, then moved on to clinical application on Multiple Sclerosis patients. He was awarded a Masters degree in Health and Biology in 1994 and obtained his PhD degree in Health and Biology in 1997 from the University of Bordeaux, and was research habilitated in 1998.

Research skills : His research focuses on translational research on neuro-inflammation with the overall goal of serving patient diagnosis or therapy.

Researcher Profile: Peer review papers (source PubMed) = 134; Sum of times cited: 5300; Average Annual citation index = 235; Average citations per paper = 31; H Index = 38 (sources ISI Web of Knowledge 2015)

Education

YEAR(s)	INSTITUTION AND LOCATION	DEGREE
1990-1991	Visiting Research Fellow : Hospital of the University of Pennsylvania, Philadelphia, USA	
1991	University of Bordeaux (Bordeaux, France)	MD
1994	University of Bordeaux (Bordeaux, France)	Master in Health and Biology
1997	University of Bordeaux (Bordeaux, France)	PhD
1998	University of Bordeaux (Bordeaux, France)	Habilitation

Current Position

MD, PhD, Professor of Medicine (Radiology and Medical Imaging)
 University of Bordeaux and University Hospital of Bordeaux
 Vice-President of the University of Bordeaux – International affairs
 Department chief of neuro-imaging since 2001
 Director of TRAIL Laboratory of Excellence (Translational Research and Advanced Imaging Laboratory – <http://trail.labex-univ-bordeaux.fr>)
 Director of Bordeaux Imaging Platform (CNRS/University of Bordeaux) – Node coordinator of France Life Imaging National Infrastructure

Professional Memberships

CERF – SFNR – SFR – ESNR – NEUROSCIENCES – ISMRM

Recent Award

2008 Outstanding Teacher Award from the International Society of Magnetic Resonance in Medicine

Teaching skills

Teacher at the Medical School of the University of Bordeaux, regularly invited as international lecturer to Universities or scientific societies. We created a new leading-edge Masters Course entitled the International Master of Bio-Imaging at the University of Bordeaux starting in 2011 in collaboration with Laval University in Canada.

Most representative publications of coordinator for translational research:

1. Dejean C, Courtin J, Rozeske RR, Bonnet MC, Dousset V, Michelet T, Herry C. **Neuronal circuits for fear expression and recovery : recent advances and potential therapeutic strategies.** Published Online, March 24, 2015 Biology Psychiatry, in press (Review)
2. Planche V, Dousset V, Ouallet JC, Tourdias T. **An unusual case of CSF leak following post-traumatic rupture of a sacral meningeal cyst.** Cephalalgia. 2015 Jan 8. pii: 0333102414566202. Epub
3. Barreau, X, Marnat, G, Gariel, F, Dousset V **Intracranial arteriovenous malformations.** Accepted Diagnostic And Interventional Imaging . 2014 ; 95 : 1175-86 (Article)
4. Crombe A, Saranathan M, Ruet A, Durieux M, Roquefeuil E, Ouallet JC, Brochet B, Dousset V, Tourdias T. **“Multiple sclerosis lesions are better detected with 3D T1 gradient echo than with 2D T1 spin echo gadolinium enhanced imaging at 3 Tesla”.** AJNR Am J Neuroradiol. 2014, Epub

5. Crombe A, Alberti N, Gilles M, Guy A, Roquefeuil E, Dousset V, Tourdias T. **“Extensive acute toxic leukoencephalopathy induced by fludarabine: two month follow-up on brain MRI”**. J Neuroradiol 2014. Epub ahead of print
6. Crombe A, Alberti N, Durieux M, Frulio N, Dousset V, Tourdias T. **“Exceptional symmetric anterior brainstem involvement in leptomeningeal carcinomatosis”**. J Neuroradiol 2014; 41(4):279-81.
7. Tourdias T, Dousset V. **Neuroinflammatory imaging biomarkers: Relevance to multiple sclerosis and its therapy**. Neurotherapeutics. 2013 Nov;10(1):111-23
8. Tourdias T, Roggerone S, Filippi M, Rovaris M, Miller D, Petry K, Brochet B, Pruvo JP, Radie E, Dousset V. **Assessment of disease activity by gadolinium and iron oxide nanoparticles in multiple sclerosis patients**. Radiology. 2012 Jul;264(1):225-233.
9. Tourdias T, Mori N, Dragonu I, Cassagno N, Boiziau C, Aussudre J, Brochet B, Moonen C, Petry K, Dousset V. **Differential aquaporin 4 expression during edema build-up and resolution phases of brain inflammation**. Journal of Neuroinflammation. 2011 Oct 19;8:143
10. Thomalla G, Cheng B, Ebinger M, Hao Q, Tourdias T, Wu O, Kim JS, Breuer L, Singer OC, Warach S, Christensen S, Treszl A, Forkert ND, Galinovic I, Rosenkranz M, Engelhorn T, Köhrmann M, Endres M, Kang DW, Dousset V, Sorensen AG, Liebeskind DS, Fiebach JB, Fiehler J, Gerloff C; for the STIR and VISTA Imaging Investigators. **DWI-FLAIR mismatch for the identification of patients with acute ischaemic stroke within 4-5 h of symptom onset (PRE-FLAIR): a multicentre observational study**. Lancet Neurol. 2011 Nov;10(11):978-986. Epub 2011 Oct
11. Tourdias T, Dragonu I, Fushimi Y, Deloire MS, Boiziau C, Brochet B, Moonen C, Petry KG, Dousset V. **Aquaporin 4 correlates with apparent diffusion coefficient and hydrocephalus severity in the rat brain: A combined MRI-histological study**. Neuroimage. 2009 Aug 15;47(2):659-66. Epub 2009 May 3
12. Bakshi R, Thompson AJ, Rocca MA, Pelletier D, Dousset V, Barkhof F, Inglese M, Guttman CRG, Horsfield MA, Filippi M. **MRI in multiple sclerosis: current status and future prospects**. Lancet Neurol. 2008 Jul;7(7):615-25
13. Tourdias T, Dousset V, Sibon I, Pelé E, Ménégon P, Asselineau J, Pachai C, Rouanet F, Robinson Ph, Chêne G, Orgogozo JM. **Magnetization transfer imaging shows tissue abnormalities in the reversible penumbra**. Stroke. 2007 Dec;38(12):3165-71
14. Demir A, Riez M, Moonen CTW, Vital JM, Dehais J, Arne P, Caillé JM, Dousset V. **Diffusion-weighted MR imaging with apparent diffusion coefficient and apparent diffusion tensor maps in cervical spondylotic myelopathy**. Radiology. 2003 Oct;229(1):37-43
15. Ries M, Jones RA, Dousset V, Moonen CT. **Diffusion tensor MRI of the spinal cord**. Magn Reson Med. 2000 Dec; 44(6):884-92
16. Dousset V, Ballarino L, Delalande C, Coussemacq M, Canioni P, Petry KG, Caille JM. **Comparison of ultrasmall particles of iron oxide (USPIO)-enhanced T2-weighted, conventional T2-weighted, and gadolinium-enhanced T1-weighted MR images in rats with experimental autoimmune encephalomyelitis**. AJNR Am J NeuroRadiology. 1999 Feb;20(2):223-227
17. Dousset V, Delalande C, Ballarino L, Quesson B, Seilhan D, Coussemacq M, Thiaudière E, Brochet B, Canioni P, Caillé JM. **In vivo macrophage activity imaging in the central nervous system detected by magnetic resonance**. Magn Reson Med. 1999 Feb;41(2):329-33
18. Dousset V, Grossman RI, Ramer KN, Schnall MD, Young LH, Gonzalez-Scarano F, Lavi E, Cohen JA. **Experimental allergic encephalomyelitis and multiple sclerosis: lesion characterization with Magnetization Transfer imaging**. Radiology. 1992 Feb;182(2):483-91

Editorial positions

Reviewer for : Lancet Neurology, Brain, American Journal of Radiology, Internal Medicine, NeuroImage, Journal of Magnetic Resonance Imaging, Radiology, JMRI

Ongoing Research Support and Grants

TRAIL (9 M €)
 FLI (3,7 M €)
 BBS (200 000 €)

Invited seminars (limited to 2010 - 2015)

2010 - In vivo imaging of Central Nervous System inflammation. Session 4: Clinical Research. Leading Graduate Schools. International Conference. Tsukuba International Congress Center. Tsukuba-City, Japon. November 1st, 2010

- Alternative contrast agents, cell and molecular imaging. Magnetic Resonance Techniques in Multiple Sclerosis. Fourteenth Advanced Course. The present and the Future. San Raffaele Scientific Institute and University. Milan, Italie. 24-25 september 2010
 - MRI of stem cells in multiple sclerosis. ISMRM 18th Annual Meeting. Stockholm, 1-7 may 2010
 - USPIO in animal models of MS. 5th annual MS MRI workshop of ARSEP. New endogen & exogen MRI markers in MS. February 5, 2010, Pitié-Salpêtrière hospital - Paris
 - Is there a need, role or benefit for alternative contrast agents in MS imaging? "Neuroimaging of MS: State-of-the-Art and Future Directions" Symposium on Saturday, Nov 7th and Sunday, Nov 8th, 2009, at the l'Enfant Plaza Hotel in Washington, DC.
- 2011
- International Society of Magnetic Resonance in Medicine. Stockholm Imaging NeuroInflammation, Stockholm
 - European congress of Radiology, Mimics of multiple sclerosis
 - Inflammatory diseases, University of Kyoto - Japon
 - Imaging of Neuroinflammation, University of Tsukuba - Japon
- 2012
- Positioning translational research in neuro-imaging. Seminar in Neurosciences. University of Tsukuba. Tsukuba-City, Japon
 - Imaging of Neuroinflammation. ISMRM 20th Annual Meeting. Melbourne, Australia
- 2013
- 40 th + 101st Anniversary International Symposium, University of Tsukuba – Japon
 - Les maladies neuro-dégénératives (Session Neurosciences) Rencontres internationales franco-chinoises de bioéthique. Wuhan, Chine
 - Imaging CNS Infections (Session : Inflammatory brain diseases and epilepsy) School of clinical radiology. Third congress, St Petersburg, Russie
 - Session : Inflammatory brain diseases and epilepsy. Tsukuba, Japon
 - Diagnostic Imaging Symposium : The future of medical imaging in translational research, Canada
- 2014
- Conférence Academic Cooperation Association Higher education developments across the globe. Bordeaux