

Pr Cécile Grandin

ETUDES ET DIPLOMES

Docteur en Médecine, Chirurgie et Accouchements : 1988, avec la plus grande distinction

Université Catholique de Louvain (UCL), Bruxelles, Belgique

Diplôme d'études spécialisées en radiodiagnostic : 1993

Université Catholique de Louvain (UCL), Bruxelles, Belgique

1988 – 1990 : Assistant en radiologie générale

1990 – 1992 : Assistant de recherche en imagerie médicale

- IRM abdominale et cardiaque
- Etudes des produits de contraste IRM destinés au foie
- TEP cardiaque

1992 - 1993: Assistant en neuroradiologie

Docteur en Sciences Médicales (PhD thesis) : 2001

Université Catholique de Louvain (UCL), Bruxelles, Belgique

- Assessment of brain vascularization with magnetic resonance imaging

Promoteurs : Prof. A.G. De Volder and Prof. G. Cosnard

Maître d'expérience pour l'expérimentation animale (certification belge) : 2007

European Certification in Neuroradiology

2008 : European Society of Neuroradiology

PARCOURS PROFESSIONNEL

**Service de Radiologie
Cliniques Universitaires St Luc, Bruxelles, Belgique**

Prof. B. Maldague – Prof B. Vande Berg – Prof G. Cosnard

Activités cliniques, recherche et enseignement

Titre actuel : Chef de Clinique

1993 - 2001 : Neuro-IRM (cerveau, tête & cou et rachis) et IRM cardiaque

2001 - 2003 : Neuro-IRM (cerveau, tête & cou et rachis)

2004 - actuellement : Neuro-IRM et Neuro-CT (cerveau, tête & cou et rachis)

Depuis sept 2013 : + Echographie du cou

**National Institutes of Health
Bethesda - Maryland - USA**

1996 - 1997 (1 an et 4 mois): Assistant de recherche en IRM fonctionnelle

In Vivo NMR Research Center, National Center of Research Resources (BEIP), Prof. C. Moonen

Assessment of brain perfusion with susceptibility-weighted dynamic contrast MRI brain activation with BOLD MRI

1997- 1998 (6 mois): Chercheur invité en IRM fonctionnelle

Epilepsy Research Branch, National Institute of Neurologic Disorders and Stroke, Prof. W. Theodore

Assessment of functional organization of brain areas involved in language by fMRI in normal and epileptic adults and children

NOMINATIONS ACADEMIQUES

Université Catholique de Louvain, Bruxelles

Oct 2003 : Chargé de cours cliniques

Sept 2008-2010 : Chef de l'Unité RDGN et chef du Département HIMA (faisant fonction)

2009-2010 : Représentant du pôle d'Imagerie médicale auprès de l'IREC (Institut de Recherche Expérimentale et Clinique)

Oct 2009 : Professeur clinique

2010-2012 : Co-responsable de la cellule d'imagerie au sein de l'IoNS (Institute of Neuroscience)

PRIX ET DISTINCTIONS

1995 : Bourse de la Fondation St Luc (Bruxelles)

1996 : Editor's Excellence Award for Outstanding Scientific Research published in the Journal of Computer Assisted Tomography, 1995

2002 : 6th International Lucien Appel Prize for Neuroradiology (1ier prix)

ENCADREMENT DE THESES DE DOCTORAT

2006 : Michael Andres

Number and finger interactions: from the parietal to the motor cortex

2010 : Isabel Cuevas Quezada

Effect of early visual deprivation on perception and semantic processing of odors

2011 : Denis Rommel (promoteur)

Choline imaging in oncology using PET and 1H-MRS: comparison, assessment as monitoring tool and insight into metabolism in an experimental model

Pascale Habre-Hallage (co-promoteur)

Assessment of changes in oral tactile function and osseoperception by oral endosseous implant

Placement

1ier prix "Basic research competition - EAO Glasgow 2010" pour la partie fMRI

Bernard Hanseeuw

On episodic memory encoding in patients with mild cognitive impairment: a cognitive and imaging approach

2012 : Emeline Clerget

Role of Broca's area in motor cognition

2013 : Paula Plaza Arancibia

Looking into brain activation using a sensory substitution prosthesis: seeing with sound

Stéphanie Lefebvre

Motor skill learning after stroke: exploration of neurophysiological mechanisms with functional neuroimaging and therapeutic modulation by non invasive brain stimulation

ACTIVITES POUR LA COMMUNAUTE SCIENTIFIQUE INTERNATIONALE

Est ou a été reviewer pour :

- Neuroimage
- Stroke
- Journal of Cerebral Blood Flow and Metabolism
- Journal of Neurology, Neurosurgery, and Psychiatry
- European Radiology
- Journal of Neuroradiology
- Journal of Magnetic Resonance Imaging

PUBLICATIONS with peer review

1992 :

1) B. VAN BEERS, **C. GRANDIN**, J. JAMART, R. DEMEURE, T.F. JACOBSEN, J. PRINGOT
Magnetic resonance imaging of lower abdominal and pelvic lesions: assessment of oral magnetic particles as an intestinal contrast agent.
Eur J Radiol , 1992, 14, 252-257 (IF 1.060)

2) B. VAN BEERS, J.P. TRIGAUX, **C. GRANDIN**, J. JAMART, R. DEMEURE, A. GEUBEL, R. BRENARD, M. MELANGE, A.N. DARDENNE, J. PRINGOT
Regenerative nodules in hepatic cirrhosis: Value of gradient-echo MR imaging with a surface coil.

Acta Radiol (Stockholm), 1992, 33, 3, 245-250 (IF 1.096)

1993 :

3) B. VAN BEERS, L. LALONDE, P. SOYER, **C. GRANDIN**, J.P. TRIGAUX, T. DE RONDE, C. DIVE, J. PRINGOT
Dynamic CT in pancreatic lymphoma.
J Comput Assist Tomogr, 1993, 17 , 1, 94-97 (IF 1.318)

4) B. VAN BEERS, J.P. TRIGAUX, **C. GRANDIN**, J. JAMART, R. DEMEURE, A. GEUBEL, R. BRENARD, M. MELANGE, A.N. DARDENNE, J. PRINGOT
Regenerative nodules in hepatic cirrhosis: Value of gradient-echo MR imaging with a surface coil.

Abdom Imaging, 1993, 18, 102 (IF 0.996)

5) P. SOYER, B. VAN BEERS, **C. GRANDIN**, J. PRINGOT, M. LEVESQUE

Primary lymphoma of the liver: MR findings.
Eur J Radiol, 1993, 16, 209-212 (IF 1.060)

6) P. SOYER, B. VAN BEERS, J. BARGE, F. KAZEROUNI, D. LACHEHEB, **C. GRANDIN**,
F. TEILLET-THIEBAUT, J. PRINGOT, M. LEVESQUE

Tomodensitométrie des lymphomes hépatiques.
Rev Imag Med, 1993, 5, 325-331

7) P. SOYER, B. VAN BEERS, F. TEILLET-THIEBAUT, **C. GRANDIN**, F. KAZEROUNI, J. BARGE, J.
PRINGOT, M. LEVESQUE

Hodgkin's and non-Hodgkin hepatic lymphoma: sonographic finding.
Abdom Imaging, 1993, 18, 339-343 (IF 0.996)

8) B. GALLEZ, R. DEBUYST, R. DEMEURE, F. DEJEHET, **C. GRANDIN**, B. VAN BEERS, H. TAPER,
J. PRINGOT, P. DUMONT

Evaluation of a nitroxyl fatty acid as liver contrast agent for magnetic resonance imaging.
Magn Res Med, 1993, 30, 592-599 (IF 3.313)

1994 :

9) B. VAN BEERS, **C. GRANDIN**, A. KARTHEUSER, P. HOANG, P. MAHIEU, R. DETRY, R.
VANHEUWERZWIJN, J. PRINGOT

MRI of complicated anal fistulae: Comparison with digital examination.
J Comput Assist Tomogr, 1994, 18 (1), 87-90 (IF 1.318)

10) I. MOTTET, R. DEMEURE, B. GALLEZ, **C. GRANDIN**, B. VAN BEERS, J. PRINGOT

Comparison of 31P NMR methods for the measurement of the apparent dissociation constant of
MgATP and evaluation of the influence of ionic strength.
M.A.G.M.A, 1994, 2, 101-107

11) B. VAN BEERS, **C. GRANDIN**, S. PAUWELS, I. MOTTET, J.F. GOUDEMANT, M. DELOS, R.
DEMEURE, J. PRINGOT
Gd-EOB-(DTPA): Enhancement pattern of hepatocellular carcinomas in rats: comparison with Tc-99m
IDA uptake.
J Magn Reson Imaging, 1994, 4, 351-354 (IF 2.694)

12) A.G. DE VOLDER, J.F. GADISSEUX, C. MICHEL, J.M. MALOTEAUX, A. BOL, **C. GRANDIN**, T.
DUPREZ, Ph. EVRARD

Brain glucose utilization in band heterotopia: synaptic activity of the "double cortex".
Pediatr Neurol, 1994, 11, 4, 290-294 (IF 1.243)

1995 :

13) **C. GRANDIN**, B.E. VAN BEERS, A. ROBERT, J.F. GIGOT, A. GEUBEL, J. PRINGOT

Benign hepatocellular tumors: MR features after superparamagnetic iron oxide administration.
J Comput Assist Tomogr., 1995, 19, 3, 412-418 (IF 1.318)
(Editor's excellence award for outstanding scientific research)

- 14) Th. DUPREZ, **C. GRANDIN**, J. MALGHEM
MRI monitoring of an acute spinal subdural haematoma with spontaneous resolution.
Acta Neurol Belg, 1995, 95 (2), 101-103 (IF 0.714)
- 15) **C. GRANDIN**, W. WIJNS, J.A. MELIN, A. BOL, A.N. ROBERT, G.H. HEIJNDRICKX, C. MICHEL,
J.L.J. VANOVERSCHELDE
Delineation of myocardial viability with PET.
J Nucl Med, 1995, 36, 1543-1552 (IF 4.899)
- 16) **C. GRANDIN**, B.E. VAN BEERS, R. DEMEURE, J.F. GOUDERMANT, I. MOTTE, J. PRINGOT
Comparison of gadolinium-DTPA and polylysine-gadolinium-DTPA-enhanced magnetic resonance
imaging of hepatocarcinoma in the rat.
Invest Radiol, 1995, 30, 10, 572-581 (IF 1.990)
- 17) Th. DUPREZ, **C. GRANDIN**
Target-like and comedon-like foci as different aspects of multiple healed brain abscesses.
Acta Neurol Belg, 1995, 95 (3), 178-180 (IF 0.714)
- 18) Th. DUPREZ, **C. GRANDIN**, G. COSNARD
Reversal of multiple spinal MS lesions at MRI: an uncommon observation
Acta Neurol Belg., 1995, 95 (4), 244-246 (IF 0.714)
- 1996 :
- 19) B.E. VAN BEERS, A. KARTHEUSER, M.A. DELOS, **C. GRANDIN**, R. DETRY, J. JAMART, J.
PRINGOT
MRI of the anal canal: correlation with histologic examination.
Magn Res Imaging, 1996, 14 (2), 151-156 (IF 1.420)
- 20) T.P. DUPREZ, M. GILLE, B.C. VANDE BERG, J. MALGHEM, **C.B. GRANDIN**, P. MICHEL, S.
GHARIANI, B.E. MALDAGUE
MRI of the spine in cobalamin deficiency: the value of examining both spinal cord and bone marrow.
Neuroradiology, 1996, 38 (6), 511-515 (IF 1.213)
- 21) T.P.J. DUPREZ, **C.B.G. GRANDIN**, C. BONNIER, C.W. THAUVOY, J.F. GADISSEUX, J.L.
DUTRIEUX, P. EVRARD
Whipple disease confined to the CNS in childhood.
AJNR Am J Neuroradiol, 1996, 17: 1589-1591 (IF 2.629)
- 22) B.E. VAN BEERS, **C. GRANDIN**, D. DE GREEF, B. LUNDBY, J. PRINGOT
Ferristene as intestinal MR contrast agent. Distribution and safety of fast ingestion procedure with oral
metoclopramide.
Acta Radiol (Stockholm), 1996, 37 (5), 676-9 (IF 1.096)
- 1997 :
- 23) **C.B. GRANDIN**, B.E. VAN BEERS, S. PAUWELS, R. DEMEURE, J. JAMART, J. PRINGOT
Ferumoxides and Tc-99m sulfur colloid: comparison of the tumor-to-liver uptake in focal nodular
hyperplasia.
J Magn Reson Imaging, 1997, 7, 125-129 (IF 2.694)
- 24) B. VAN BEERS, M. LACROSSE, J. JAMART, **C. GRANDIN**, J.F. GIGOT, Y. HORSMANS, R.
DEMEURE, J. PRINGOT
Detection and segmental localization of malignant hepatic tumors: comparison of ferumoxides-
enhanced gradient-echo and T2-weighted spin-echo MR imaging at 0.5 T.
AJR Am J Roentgenol, 1997, 168, 3, 713-718 (IF 2.474)
- 25) **C. GRANDIN**, T. DUPREZ, G. STROOBANDT, E.C. LATERRE, P. MATHURIN
Spinal dural arterio-venous fistula: an underdiagnosed disease?
Acta Neurol Belg., 1997, 97, 17-21 (IF 0.714)

- 26) B. DE COENE, C. GILLIARD, **C. GRANDIN**, J.F. NISOLLE, J.P. TRIGAUX, J. BOU LAHDOU
Unusual location of an intracranial chondroma.
AJNR Am J Neuroradiol, 1997, 18, 573-575 (IF 2.629)
- 27) T.P.J. DUPREZ, **C.B.G. GRANDIN**, M. OSSEMAN, G. COSNARD, C.J.M. SINDIC
MR monitoring of a medically treated spinal cord abcess presumtively due to Listeria monocytogenes.
Eur Neurol, 1997, 37, 249-251 (IF 1.042)
- 28) A.G. DE VOLDER, A. BOL, J. BLIN, P. ARNO, **C. GRANDIN**, C. MICHEL, C VERAART
Brain energy metabolism in early blind subjects: neural activity in the visual cortex.
Brain Res., 1997, 750, 235-244 (IF 2.474)
- 29) J.R. PETRELLA, C. DECARLI, M. DAGLI, J.H. DUYN, **C.B. GRANDIN**, J.A. FRANK, E.A.
HOFFMAN, W.H. THEODORE
Assessment of whole brain vasodilatory capacity with acetazolamide challenge at 1.5 T using dynamic
contrast imaging with FS-BURST.
AJNR Am J Neuroradiol, 1997, 18, 1153-1161 (IF 2.629)
- 30) T. DUPREZ, **C. GRANDIN**, J.F. GADISSEUX, A.G. DE VOLDER, C. THAUVOY, A. KEYEUX, P.
EVRARD
MR monitored remitting-relapsing pattern of cortical involvement in Rasmussen's syndrome:
comparison of serial MR findings and PET/SPECT features.
J Comput Assist Tomogr, 1997, 21, 900-904 (IF 1.318)
- 31) G. COSNARD, T. DUPREZ, **C. GRANDIN**, P. MATHURIN
Imagerie de la myélopathie cervicarthrosique.
Rachis, 1997, 9, 269-274
- 32) T. DUPREZ, A. PEETERS, G. COSNARD, **C. GRANDIN**
Updated routine MR work-up of hyperacute stroke patients using diffusion-weighted sequences.
Acta Neurol Belg, 1997, 97, 261-263 (IF 0.714)
- 1998: 33) J.R. PETRELLA, C. DECARLI, M. DAGLI, **C.B. GRANDIN**, J.H. DUYN, J.A. FRANK, E.A.
HOFFMAN, W.H. THEODORE

Age related vasodilatatory response to acetazolamide challenge in healthy adult humans: a dynamic
contrast-enhanced MR perfusion imaging study.
AJNR Am J Neuroradiol, 1998, 19, 39-44 (IF 2.629)
- 34) **C.B. GRANDIN**, P. MATHURIN, T. DUPREZ, G. STROOBANDT, F. HAMMER, P. GOFFETTE, G.
COSNARD
Diagnosis of intracranial aneurysms: accuracy of MR angiography at 0.5 T.
AJNR Am J Neuroradiol, 1998, 19, 245-252 (IF 2.629)
- 35) J.F. GOUDEMANT, B.E. VANBEERS, R. DEMEURE, **C. GRANDIN**, M. DELOS, J. PRINGOT
Comparison of unenhanced and gadoxetate disodium-enhanced spin echo magnetic resonance
imaging for the detection of experimental hepatocellular carcinoma in the rat.
Invest Radiol, 1998, 33(2), 80-84 (IF 1.990)
- 36) C.T.W. MOONEN, P. VAN GELDEREN, J.W. VAN DER VEEN, D. MADIO, **C. GRANDIN**, J.H.
DUYN, J. FRANK, N. RAMSEY, D.R. WEINBERGER
Advances in 3D fMRI on a clinical instrument using PRESTO technique.
Current Progress in Functional Brain Mapping, Ed: T. Yuasa, J.W. Prichard, S. Ogawa,
Nishimura/Smith Gordon, London, England, 1998, 97-101
- 37) T. DUPREZ, S. GHARIANI, **C. GRANDIN**, A.M. SMITH, J.F. GADISSEUX, P. EVRARD
Focal seizure-induced premature myelination: speculation from serial MRI.
Neuroradiology, 1998, 40, 580-582 (IF 1.213)

38) G. COSNARD, T. DUPREZ, **C. GRANDIN**, P. MATHURIN
Imagerie des espaces méningés rachidiens: applications sémiologiques.
Feuillets de radiologie, 1998, 38, 483-495

1999 :

39) G. COSNARD, T. DUPREZ, **C. GRANDIN**, A.M. SMITH, A. PEETERS
Imagerie de diffusion et de perfusion par résonance magnétique de l'encéphale.
Louvain Médical, 1999, 118, 2, 129-140

40) **C.B. GRANDIN**, G. COSNARD

La RMN fonctionnelle: une fenêtre ouverte sur le cerveau au travail.
Louvain Médical, 1999, 118, 2, 141-150

41) G. COSNARD, T. DUPREZ, **C. GRANDIN**, A.M. SMITH, T. MUNIER, A. PEETERS

Fast-FLAIR sequence for detecting major vascular abnormalities during hyperacute phase of stroke: A comparison with 3D-TOF MR angiography.
Neuroradiology, 1999, 41, 342-346 (IF 1.213)

42) K.E.HUNTER, T.A. BLAXTON, S.Y. BOOKHEIMER, C. FIGLOZZI, W.D. GAILLARD, **C. GRANDIN**, A. ANYANWU, W.H. THEODORE

¹⁵O Water Positron Emission Tomography in language localization: A study comparing PET Visual and computerized Region of Interest Analysis with the Wada test.
Ann Neurol, 1999, 45, 662-665 (IF 7.717)

2000 :

43) A.M. SMITH, **C.B. GRANDIN**, T. DUPREZ, F. MATAIGNE, G. COSNARD
Whole brain quantitative CBF and CBV measurements using MRI bolus tracking: comparison of methodologies.
Magn Reson Med, 2000, 43, 559-564 (IF 3.313)

44) G. COSNARD, T. DUPREZ, **C. GRANDIN**, S. DECHAMBRE, F. MATAIGNE, A. SMITH
Diffusion- and perfusion-weighted MR imaging during the hyperacute phase of stroke.

J Radiol, 2000, 81, 858-869 (IF 0.327)

45) G. COSNARD, T. DUPREZ, **C. GRANDIN**

Techniques d'examen IRM des tumeurs cérébrales de l'adulte.
J Neuroradiol, 2000, 27, 31-38 (IF 0.512)

46) P. VAN GELDEREN, **C. GRANDIN**, J.R. PETRELLA, C.T. MOONEN Rapid three-dimensional MR imaging method for tracking a bolus of contrast agent through the brain.
Radiology, 2000, 216, 603-608 (IF 4.815)

47) I. GRANIER, **C.B. GRANDIN**, T. DUPREZ, A.M. SMITH, A. PEETERS, G. COSNARD

Détection d'une pénombre hémodynamique à la phase hyperaigüe d'un AVC: valeur prédictive de l'angiographie 3D-TOF et de la séquence fast-FLAIR.
J. Neuroradiol., 2000, 27, 119-127 (IF 0.512)

48) A.M. SMITH, **C.B. GRANDIN**, T. DUPREZ, F. MATAIGNE, G. COSNARD

Whole brain quantitative CBF, CBV and MTT measurements using MRI bolus tracking:
Implementation and application to data acquired from hyperacute stroke patients.
J Magn Reson Imaging, 2000, 12, 400-410 (IF 2.694)

49) S.D. DECHAMBRE, T. DUPREZ, **C.B. GRANDIN**, F.E. LECOUVET, A. PEETERS, G. COSNARD
High signal in cerebrospinal fluid mimicking subarachnoid hemorrhage on FLAIR following acute stroke and intravenous contrast medium.

Neuroradiology, 2000, 42, 608-611 (IF 1.213)

50) **C.B. GRANDIN**, G. COSNARD, F. HAMMER, T.P. DUPREZ, G. STROOBANDT, P. MATHURIN
Vasospasm after subarachnoid hemorrhage: diagnosis with MR angiography.
AJNR Am J Neuroradiol, 2000; 21, 1611-1617 (IF 2.629)

With an Editorial by J.E. Heiserman : « MR angiography for the diagnosis of vasospasm after subarachnoid hemorrhage. Is it accurate ? Is it safe ? » AJNR Am J Neuroradiol, 2000; 21, 1571-1572

2001 :

51) W.D. GAILLARD, **C.B. GRANDIN**, B. XU.

Developmental aspects of pediatric fMRI: Considerations for image acquisition, analysis, and interpretation.

Neuroimage, 2001, 13, 239-249 (IF 6.192)

52) W.D. GAILLARD, M. PUGLIESE, **C.B. GRANDIN**, J.R PETRELLA, S.H. BRANIECKI, K.HUNTER, B. XU, P. KONDAPANENI, L. BALSAMO, J.R. PETRELLA, MC ARNOLD, G. BASSO
Cortical localization of reading in normal children: An fMRI language study
Neurology, 2001, 57, 47-54 (IF 5.678)

53) **C. B. GRANDIN**, T. DUPREZ, A.M. SMITH, F. MATAIGNE, A. PEETERS, C. OPPENHEIM, G. COSNARD

Usefulness of magnetic resonance-derived quantitative measurements of cerebral blood flow and volume in prediction of infarct growth in hyperacute stroke

Stroke, 2001, 32, 1147-1153 (IF 5.233)

54) C. OPPENHEIM, **C. GRANDIN**, Y. SAMSON, A. SMITH, T. DUPREZ, C. MARSAULT, G. COSNARD Is there an apparent diffusion coefficient threshold in predicting tissue viability in hyperacute stroke ?
Stroke 2001, 32 ; 2486-2491 (IF 5.233)

55) **C.B. GRANDIN**

Assessemnt of brain vascularization with magnetic resonance imaging

JBR-BTR, 2001, 84 ; 273-275

2002 : 56) **C. B. GRANDIN**, T.P. DUPREZ, A.M. SMITH, C. OPPENHEIM, A. PEETERS, A.R. ROBERT, G. COSNARD

Which MR-derived perfusion parameters predict infarct growth the best in hyperacute stroke ? A comparative study between relative and quantitative measurements.

Radiology, 2002, 223 (2) ; 361-370 (IF 4.899)

57) L. ANNET, T. DUPREZ, **C. GRANDIN**, G. DOOMS, A. COLLARD, G. COSNARD

Apparent diffusion coefficient measurements within intracranial epidermoid cyst in six patients

Neuroradiology, 2002, 44 (4) ; 326-328 (IF 1.213)

58) L.M. BALSAMO, B. XU, **C.B. GRANDIN**, J.R. PETRELLA, S.H. BRANIECKI, T.K. ELLIOTT, W.D. GAILLARD

A functional magnetic resonance imaging study of left hemisphere language dominance in children.

Arch Neurol Chicago, 2002, 59 (7) ; 1168-1174 (IF 4.053)

59) W.D. GAILLARD, L. BALSAMO, B. XU, **C.B. GRANDIN**, , S.H. BRANIECKI, P. PAPERO, S. WEINSTEIN, J. CONRY, P.L. PEARL, S. SATO, B. JABBARI, L.G. VEZINA, C. FRATTALI, W.H. THEODORE

Language dominance in partial epilepsy patients identified with an fMRI reading task.

Neurology, 2002, 59 (2) ; 256-265 (IF 5.678)

60) Y. VANDERMEEREN, A. DE VOLDER, E. BASTINGS, J-L THONNARD, J. DUQUE, **C. GRANDIN**, G. SEBIRE, E. OLIVIER

Functional relevance of motor cortex reorganisation in a child with unilateral schizencephaly

Neuroreport, 2002, 13 (14) ; 1821-1824 (IF 2.503)

61) **C. GRANDIN**

Report of the Sixth Lucien Appel Prize for Neuroradiology. Assessment of brain vascularization with magnetic resonance imaging.
JBR-BTR, 2002, 85 ; 315

2003 :

62) W.D. GAILLARD, B.C. SACH, J.R. WHITNAH, Z. AHMAD, L.M. BALSAMO, J.R. PETRELLA, S.H. BRANIECKI, C.M. MCKINNEY, K. HUNTER, B. XU, **C.B. GRANDIN** Developmental aspects of language processing. FMRI of verbal fluency in children and adults
Human Brain Mapping, 2003, 18: 176-185 (IF 6.058)

63) M. BARILE, F. VAN DE WYNGAERT, J.J. ESSAMA MBIA, M. JATIVA, **C. GRANDIN**, H. ROOIJAKKERS, P. HANTSON

Intravenous magnesium sulfate administration in a patient with refractory vasospasm following subarachnoid hemorrhage
Intensive Care Medicine, 2003, 29; 1182-1185 (IF 2.971)

64) G. COSNARD, T. DUPREZ, L. MORCOS, **C. GRANDIN**

MRI of closed head injury
J Neuroradiol, 2003, 30; 146-157 (IF 0.512)

65) Y. VANDERMEEREN, G. SEBIRE, **C.B. GRANDIN**, J.L. THONNARD, X. SCHLOGEL, A.G. DE VOLDER

Functional reorganization of brain in children affected with congenital hemiplegia: fMRI study
NeuroImage, 2003, 20; 289-301 (IF 6.192)

66) **C.B. GRANDIN**

Assessment of brain perfusion with MRI: methodology and application to acute stroke
Neuroradiology, 2003, 45: 775-766 (IF 1.213)

2004 :

67) X.L. HAMOIR, **C.B. GRANDIN**, A. PEETERS, A. ROBERT, G. COSNARD, T. DUPREZ
MRI of hyperacute stroke in the AchA territory
Eur Radiol, 2004, 14: 417-24 (IF 2.364)

68) M.C. ARNOULD, **C.B. GRANDIN**, A. PEETERS, G. COSNARD, T. DUPREZ

Comparison of CT and three MR sequences for detecting and categorizing early (48 hours)
hemorrhagic transformation in hyperacute ischemic stroke
AJNR Am J Neuroradiol, 2004, 25; 939-944 (IF 2.406)

2005 :

69) B. GERBER, E COCHE, A. PASQUET, E. KETELSLEGERS, D. VANCRAYENEST, **C. GRANDIN**, B.E. VAN BEERS, J.L. VANOVERSCHELDE
Coronary artery stenosis: Direct comparison of four-section multidetector row CT and 3D navigator MR imaging for detection – Initial results
Radiology 2005, 234: 98-108 (IF 5.076)

70) P. HANSTON, **C. GRANDIN**, T. DUPREZ, MC NASSOGNE, JM GUERIT

Comparison of clinical, magnetic resonance and evoked potentials data in a case of valproic-acid related hyperammonemic coma
Eur Radiol, 2005, 15: 59-64 (IF 2.364)

71) **C.B. GRANDIN**, A. BOL, A.M. SMITH, C. MICHEL, G. COSNARD

Absolute CBF and CBV measurements by MRI bolus tracking before and after acetazolamide challenge: repeatability and comparison with PET in humans
NeuroImage, 2005, 26: 525-535 (IF 4.869)

- 72) J. KEFER, E. COCHE, G. LEGROS, A. PASQUET, **C. GRANDIN**, B.E. VAN BEERS, J.L. VANOVERSCHELDE, B.L. GERBER
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