

CURRICULUM VITAE

Pierre Krystkowiak

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Born June 23rd 1965 in Auchel (France). Nationality: French. Married, 1 child.

National Service performed in the Cherbourg Army Hospital from September 1992 to September 1993.

Professional situation: Specialist Registrar in the Department of Neurology (headed by Professor Olivier Godefroy), UMR CNRS 8160, North Hospital, Amiens University Hospital, F-80054 Amiens cedex, France.

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QUALIFICATIONS & TITLES

UNIVERSITY QUALIFICATIONS & TITLES

- Authorization to supervise research work ("Habilitation à Diriger les Recherches") granted on December 18th 2006 by the University of Lille II, Lille, France.
- PhD in the Physiology and Biomechanics of Motor Performance, University of South Paris, Orsay, France (2003).
- Head of the Neurology Clinic in the Department of Neurology and Movement Disorders (headed by Professor Alain Destée) (November 1997 - October 1999).

- DEA degree (M.Phil. equivalent) in the Biomechanics and Physiology of Motor Performance (Biomechanics and Physiology of Movement option), University of South Paris, Orsay (1998).
- Degree in Human Biology (Certificate in General Immunology & Immunopathology in 1995; Certificate in Anatomy in 1997)
- Laureate at the Lille Faculty of Medicine (1996 examination).
- Advanced Diploma in Neurology ("Diplôme d'Etudes Spécialisées en neurologie") (1996).
- Degree in Medicine (1996).

HOSPITAL QUALIFICATIONS & TITLES

- Specialist Registrar in the Department of Neurology (headed by Professor Olivier Godefroy) at Amiens University Hospital (since February 2007).
- Specialist Registrar in the Department of Neurology and Movement Disorders (headed by Professor Alain Destée) at Lille University Hospital (November 1999 – February 2007).
- Senior House Officer in the Department of Neurology and Movement Disorders (Professor Alain Destée) at Lille University Hospital (November 1997 - October 1999).
- Specialist House Officer in the Lille Hospitals Group (November 1991 - October 1996).

<p style="text-align: center;">HOSPITAL-BASED ACTIVITIES (at Lille University Hospital and then Amiens University Hospital)</p>

In view of my recent arrival at Amiens University Hospital, just one hospital-based activity has been developed for the moment.

At Amiens University Hospital, since February 5th 2007:

- Responsibility for 11 standard hospital beds within the Department of Neurology's East Unit.
- Participation in neurology and neurosurgery standby duties as well as neurology consultations in other services.
- Implementation of neurology consultations which focus more particularly on movement disorders, notably Parkinson's disease and parkinsonian syndromes, tremor, dystonia, Huntington's disease and injections of botulinum toxin.

At Lille University Hospital, up until February 5th 2007:

- Sector manager for Fixed Length Stay Hospitalizations and then the Parkinson's Disease Unit (15 beds) since 1997.
- Participation in round-the-clock neurology duty since 1997 (thrombolysis).
- Neurology consultations with a focus on movement disorders, notably Parkinson's disease and Parkinsonian syndromes, tremor, dystonia and Huntington's disease (referring physician for the PEP Nord-62 network).
- Participation in multidisciplinary consultations for predictive genetics (Huntington's disease) since 2003.
- Participation in multidisciplinary consultations for deep brain stimulation since 2000.
- Treatment of focal dystonia (and other involuntary abnormal movements) via botulinum toxin injection since 1997 (referring physician for the PEP Nord-62 network and the Lille University Hospital for botulinum toxin).
- Joint referring physician for the PEP Nord-62 network and for the "deep brain stimulation" activity in movement disorders (since 1996).

- Member of the "Réseau Huntington de Langue Française" (Huntington French Speaking Group); member of the European Huntington's Disease Network (EHDN), involved in the "Surgical Treatment" and "Motor Phenotype" working groups.
- Member of the Clinical Neurology management committee at Lille University Hospital (since 2000).
- Organisation and/or coordination of meetings with patient associations (AHF, AFP, AMADYS, FRM).

UNIVERSITY ACTIVITIES
(at Lille University Hospital)

SUPERVISION OF MEDICAL THESES AND DISSERTATIONS

Medical Theses

- Clémence SIMONIN. Medical Thesis, Lille, 2005. Subthalamic nucleus stimulation in Parkinson's disease: 5-year outcome and predictive factors (*Mov Disord* 2007, submitted).
- Laurent SKRZYPCZAK. Medical Thesis, Lille, 2001. Intérêt de l'examen polygraphique dans les dystonies (The value of polygraphic examination in dystonia) (*Rev Neurol* 2004).

Dissertations

- Lucie TOUPRY and Stéphanie BARBIEUX. Dissertation for a speech therapist degree, Lille, 2006. Influence of bilateral stimulation of the external pallidum on speech in Huntington's patients.
- Louise TYVAERT. Dissertation for an Advanced Diploma in Neurology, Lille 2004. Neurophysiological study of dystonia in corticobasal degeneration.
- Marie-Pierre PERRIOL. Dissertation for an Advanced Diploma in Neurology, Lille 2003. Cognitive, motors and behavioural effects of bilateral stimulation of the subthalamic nucleus in Parkinson's Disease (*Parkinsonism and Related Disorders* 2006).
- Arnaud DELVAL. Dissertation for an Advanced Diploma in Neurology, Lille, 2003. Neurophysiological study of cortical tremor. (*Rev Neurol* 2003).
- Cyrille BONTEMPS and Elise DUVAL. Dissertation for a speech therapist degree, Lille, 2001. Influence of bilateral stimulation of the subthalamic nucleus in Parkinsonian dysarthria (*J Neurol* 2004).
- V. HOCQUET. Dissertation for a speech therapist degree, Lille, 1998. Influence of bilateral internal pallidum stimulation on Parkinsonian dysarthria.

TEACHING

Current teaching duties

Over the course of the 2004-2005 university year, I participated in the following teaching activities (50 hours for lectures, tutorials and integrated teaching). (NB: teaching over the 2005-2006 year will only partially be taken in account - in view of a 9-month research sabbatical in 2006, the year is not representative of the usual level of activity).

Courses

Advanced Diploma in Neurology

- Teaching as part of the Advanced Diploma in Neurology in Lille (since 1997). 16 hrs.
- Advanced Diploma at Poitiers University Hospital (December 2006): Care provision for Huntington's disease (1 hr).

Masters

- Masters in Cognitive Science (year 1): anatomical and functional organisation of the basal ganglion system (March 2006: 2 hrs)
- Masters in Cognitive Science (year 2): anatomical and functional organisation of the basal ganglion system; the clinical basis of Huntington's disease (December 2006: 3 H)

Postgraduate medical training

- Clinical teaching for interns (since 1997).

Medical Students

- Teaching during hospital placements for 3rd year medical students (DCEM1): introduction to semiology (since 1991).
- Clinical teaching during hospital placements for 4th-6th year medical students (since 1991).
- Integrated teaching during hospital placements (6 hrs/year) and tutorials at the university (4 hrs/year) as part of the French reform in medical training (since 2001).

Nurses

- Teaching nurses in Lille University Hospital's Neurology Clinic (since 1994; 3 hrs/year).

Supervision

Advanced Diplomas in Neurology, interns and medical students

- Supervision during hospital placements

1st & 2nd year Medical Students

- Supervision of hospital placements for 2nd-year medical students, semiology in groups of 5 students (since 1991), 24 H.

Participation in Lille University Hospital's Neurosciences Symposium

- Weekly from 1988 to 2000, fortnightly since 2001, in collaboration with the discipline's Professorial staff.

Teaching as part of continuing medical education

- Teaching for French general practitioners and neurologists (postgraduate and GP conferences since 1996).
- Coordination of the PEP Nord-62 network since 1996.

In earlier years, I also participated in the following teaching courses:

- Lecturer for interns (1992-1996)
- Clinical monitor for 3rd year medical students (1995-1996)
- Courses:
 - *Degree in physiology* (Certificate in Cellular Physiology)
 - *For graduate medical students and university diplomas*: diplomas in neurovascular disease, geriatric medicine and pain; postgraduate teaching in general medicine.
 - *For medical students*: tutorials for 6th year medical students in preparation for the CSCT (internship) exams.
 - *Faculty of Dentistry*
 - *Paramedical training colleges*: The Lille Institute of Healthcare Engineering, nursing schools, medical secretary schools, speech therapy institutes.

TEACHING AND TRAINING PUBLICATIONS

- **The CME section of the *Revue Neurologique* journal.**
 - 1 P. KRYSKOWIAK, F. DURIF. Chorée et ballisme, un continuum (Do chorea and ballism constitute poles of a symptom continuum?) *Rev Neurol.*, 2006, 163(4):499-503.
 - 2 P. KRYSKOWIAK, L. DEFEBVRE. Rush dyskinesia scale or Goetz scale. *Rev Neurol*, 2002, 158: 622-624.

- 3 C. ÖZSANCAK, P. KRYSKOWIAK, K. DUJARDIN, M. VÉRIN, L. DEFEBVRE. Management of a parkinsonian patient treated by stimulation of the subthalamic nuclei. *Rev Neurol*, 2003, 159 (5-C1): 593-597.

- **Book chapters:**

- 1 L. DEFEBVRE, P. KRYSKOWIAK. Motor and gestural disorders: abnormal movement and motor behavior. In: The behavioural and cognitive neurology of stroke. GODEFROY O, BOGOUSSLAVSKY J. Eds. Cambridge University Press, 2007.
- 2 P. KRYSKOWIAK. Hypersiallorrhée (Hypersialorrhea). In: Les troubles de la parole et de la déglutition dans la maladie de Parkinson: description et prise en charge (Speech and swallowing disorders in Parkinson's disease: description and treatment). ÖZSANCAK C, AUZOU P. Editions SOLAL, 2005.
- 3 P. KRYSKOWIAK. Echelles et questionnaires d'évaluation (Evaluation scales and questionnaires). In: La maladie de Parkinson (Parkinson's disease). L. DEFEBVRE, M. VERIN. Monographie de Neurologie (Neurology Monograph). Editions MASSON. Paris, 2006.

- **Encyclopédie Médico-Chirurgicale (Medical & Surgical Encyclopaedia):**

P. KRYSKOWIAK, F. TISON, AM. BONNET. Echelles et questionnaires d'évaluation de la maladie de Parkinson (Scales and questionnaires for evaluating Parkinson's disease). *EMC* (Elsevier SAS, Paris), Neurologie, 17-035-A-83, 2006.

- **CD-ROMs:**

- 1 Coordination of the creation of a CD-ROM entitled "Echelles d'évaluation de la maladie de Parkinson" (Scales for evaluating Parkinson's disease) for the medical training of interns and neurologists, under the auspices of the Collège des Enseignants de Neurologie (College of Neurology Teachers) and in collaboration with Euthérapie (2003).
- 2 Co-author of a CD ROM entitled "Syndrome des Jambes sans repos" (restless legs syndrome) for the medical training of interns and neurologists, under the auspices of the SFN and SFRS learned societies and in collaboration with GSK (2006).

- **French journals: Lettre du Neurologue, Neurologies, Quotidien du Médecin, Quotidien du Pharmacien, Mouvements:**
 - 1 P. KRYSKOWIAK. Le syndrome des jambes sans repos (Restless legs syndrome). *Le Quotidien du Pharmacien* 30 March 2006 N°2389, Cahier 2.
 - 2 P. KRYSKOWIAK, C. MONACA. Le syndrome des jambes sans repos: dépistage et prise en charge (Restless legs syndrome: screening and treatment). *Le Quotidien du Médecin*, September 2005.
 - 3 P. KRYSKOWIAK, F. DURIF. Chorée et ballisme, un continuum? (Chorea and ballismus - a continuum?) 2005 (the *Mouvements* journal published by the Club des Mouvements Anormaux (Abnormal Movements Club), accepted).
 - 4 DAMIER P, BROUSSOLLE E, KRYSKOWIAK P, GÉRARD P, ZIEGLER M. 5 ans après la conférence de consensus, quelles stratégies thérapeutiques conseiller à la phase initiale de la maladie de Parkinson? (5 years after the consensus conference: which therapeutic strategies should be recommended for the initial phase of Parkinson's disease?) *Neurologies* 2005.

- **Joint editor** of the "Images and Comment" section of "Mouvements", the official journal of the Club des Mouvements Anormaux (Abnormal Movements Club).

- **Web sites:**
 - 1 Editor-in-Chief of a newsletter on restless legs syndrome (site sponsored by the Société Française de Neurologie (SFN, the French Society of Neurology) and the Société Française de Recherche sur le Sommeil (the French Society for Sleep Research).
 - 2 Editor-in-Chief of a newsletter on Parkinson's disease (site sponsored by the Société Française de Neurologie (SFN, the French Society of Neurology)).
 - 3 Joint editor of the SFN's web site (rapporteur for national and international congresses, a "Parkinson's newsletter").

MEMBERSHIP OF LEARNED SOCIETIES

- Full member of the Société Française de Neurologie (the French Society of Neurology).

- Member of the Club des Mouvements Anormaux (Abnormal Movements Club).
- Member of the Club des Ganglions de la Base (Basal Ganglia Club)
- Full member of the Société de Médecine du Nord (Northern France Society of Medicine).

REVIEWER FOR NATIONAL AND INTERNATIONAL JOURNALS

- Revue Neurologique
- Parkinsonism and Related Disorders
- Journal of Neurology, Neurosurgery and Psychiatry
- Clinical Neurology and Neurosurgery.
- Journal of Neurology
- Journal of Neurotransmission

<p style="text-align: center;">RESEARCH ACTIVITIES (at Lille University Hospital)</p>

CONTEXT

Research activities are integrated into the EA2683 research group (2005-2009), part of the "Basal Ganglia" Research and Postgraduate Studies Directorate headed by Professor Alain Destée, IFR 114.

In addition to the EA2683 group, the work is also integrated into the Réseau Huntington de Langue Française (The Huntington French Speaking Group, on whose Steering Committee I now serve), and the European Huntington's Disease Network (EHDN), within which I am a member of the "Surgical Treatment" and "Motor Phenotype" working groups.

PARTICIPATION IN CLINICAL RESEARCH PROTOCOLS

Only multicentre research protocols are briefly described here. However, all performed/published research work (as well as work in progress) will be covered in more detail in the appropriate sections of this document, bearing in mind that the research is centred on 3 main themes:

- 1 DEEP BRAIN STIMULATION**
- 2 GAIT AND POSTURE DISORDERS**
- 3 HUNTINGTON'S DISEASE**

- Coordinator of the 2-centre STIM-HD trial (Lille University Hospital, CHU Erasmus University Hospital, Brussels, Belgium) aimed at evaluating the efficacy of external pallidum stimulation in Huntington's disease (PHRC 2004).

Ancillary studies:

- neurophysiological gait analysis
- perceptive analysis of speech

- PET evaluation of chronic, bilateral stimulation of the external pallidum in Huntington's disease (collaboration with Prof. S. Goldman, Erasmus University Hospital, Brussels, Belgium).
- Local coordinator of a Hospital-based Clinical Research Programme (2003): the SPIDY 2 Protocol - "Evaluation of internal pallidum stimulation in post-anoxic, generalized dystonia and idiopathic non-generalized dystonia". National coordinator: Prof. M. Vidailhet, St Antoine Hospital, Paris (5 centres).
- The NORDYS study: a genetic study of familial forms of focal dystonia in Northern France. Coordinator: Prof. A. Destée.
- Local coordinator (with Prof. S. Blond) of a Hospital-based Clinical Research Programme (2001): "Evaluation of the effect of an intrastriatal allograft of foetal tissue in Huntington's disease". European Programme, coordinator: Prof. Kéravel, Créteil, France (6 centres).
- The RESPAR study: Census-Stimulation-Parkinson (2001). Epidemiological survey of Parkinson's disease patients in the Nord-Pas-de-Calais region of France – Estimation of the number of patients eligible for the deep brain stimulation procedure.
- Local coordinator of a Hospital-based Clinical Research Programme (2000): the SPIDY Protocol, "Evaluation of internal pallidum stimulation in generalized dystonia". National coordinator: Prof. M. Vidailhet, Hôpital St Antoine, Paris (4 centres).
- Local coordinator of a Hospital-based Clinical Research Programme (1999): the SPARK Protocol: "A socio-economic study coupled to evaluation of subthalamic nucleus stimulation in Parkinson's disease". National coordinator: Prof. P. Pollak, Grenoble (4 centres).
- Local coordinator of the Programme Hospitalier de Recherche Clinique (1995): multicentre trial of internal pallidum stimulation in Parkinson's disease. National coordinator: Prof. A. Destée (5 centres).
- Research programme funded by the Faculty Research Commission, Lille University Hospital (1993): "Parkfanord: a study of familial form of Parkinson's disease in Northern France". Coordinator: Prof. A. Destée.
- Participation in many multicentre therapeutic trials sponsored by the pharmaceutical industry: international and national trials on Parkinson's disease and related parkinsonian syndromes (Ropinirole, Tolcapone, Entacapone, Riluzole, Rotigotine, etc.), on focal dystonia (national coordinator of an trial evaluating type B botulinum toxin), on Huntington's disease (Riluzole) and on essential tremor (national coordinator of a phase II trial).

SUPERVISION OF DOCTORAL & MASTERS THESES

Doctoral Theses

- Clémence SIMONIN. PhD in Science (1st year). Grafting of human foetal embryonic neural stem cells combined with administration of a neuroprotective factor in a murine model of Huntington's disease.
- Caroline MOREAU. PhD in Science (1st year). STN stimulation and Parkinson's disease: study of the influence of stimulation frequency on gait disorders.

Masters Theses

- C. MOREAU. M.Phil. in the Physiology and Biomechanics of Human Movement. A neurophysiological study of freezing and gait in Parkinson's disease. University of South Paris, Orsay, July 2005 (*J Neurol* 2007).
- A. DELVAL. M.Phil. in the Physiology and Biomechanics of Human Movement. Study of gait and gait initiation in Huntington's disease. University of South Paris, Orsay, July 2003 (*Gait Posture* 2007, *J Neurol* 2006).
- B. MAINGUET. M.Phil. in the Physiology and Biomechanics of Human Movement. Influence of chronic stimulation of the internal pallidum and the subthalamic nucleus on gait initiation in Parkinson's disease. University of South Paris, Orsay. July 2001.

TRAINING PERIODS & RESEARCH SABBATICALS OUTSIDE THE LILLE UNIVERSITY HOSPITAL

- Neurology Service at the Erasmus-ULB Hospital (Prof. M Pandolfo), Brussels, Belgium (14/03/2005 to 13/05/2005).
 - Experience of neuronal grafts
 - Implementation of a study on deep brain stimulation in Huntington's disease
 - Implementation of a PET study as an adjunct to the above-mentioned study (collaboration with Prof. Goldman)
- INSERM Unit U421 (headed by Dr Anne Catherine Bachoud-Levi), Henri-Mondor University Hospital, Créteil, France (01/03/2006 to 30/11/2006).

- Perception of dyskinesia in Huntington's disease and Parkinson's disease
- Investigation of the mental imaging of motor activity in Huntington's disease via transcranial magnetic stimulation.

LIST OF PUBLICATIONS

The listed publications generally correspond to 3 main research themes:

- 1 DEEP BRAIN STIMULATION
- 2 GAIT AND POSTURE DISORDERS
- 3 HUNTINGTON'S DISEASE

This list does not include teaching and training publications, which are referenced above in the "UNIVERSITY ACTIVITIES" section.

THESES & DISSERTATIONS ASSOCIATED WITH UNIVERSITY QUALIFICATIONS

- 1 Dissertation for award of an Advanced Diploma in Neurology, defended in Paris in 1996: A multi-enzyme peroxisomal deficiency mimicking Charcot-Marie-Tooth disease (Roels et al, *Adv Exp Med Biol* 2003).
- 2 Doctoral thesis in Medicine, defended in Lille in 1996: Involuntary, abnormal movement after stroke: radioclinical correlations (Krystkowiak et al, *J Neurol Neurosurg Psychiatry* 1998; Krystkowiak et al, *Mov Disord* 2000).
- 3 Dissertation for award of an Advanced Diploma in Biomechanics and Physiology of Movement, defended in Orsay in 1998 (University of South Paris): Influence of chronic internal pallidum stimulation on gait in Parkinsonians.
- 4 PhD thesis in the Physiology and Biomechanics of Motor Performance, defended in Orsay in 2003 (University of South Paris): Influence of bilateral stimulation of the subthalamic nucleus and the internal pallidum on gait in Parkinsonians (Krystkowiak et al, *J Neurol* 2001; Defebvre et al, *Mov Disord* 2002; Krystkowiak et al, *Arch Neurol* 2003; Krystkowiak et al, *J Neurol* 2006).

***WORK PUBLISHED IN PEER-REVIEWED NATIONAL OR
INTERNATIONAL JOURNALS***

For a given journal, the impact factor (IF) was compared with the other IFs in the field and then classified into one of the following 6 categories: IF > P90 = A, Q3 < IF < P90 = B, MED < IF < Q3 = C, Q1 < IF < MED = D, IF < Q1 = E and Unknown = NC. Q1: the 1st quartile of the distribution; MED: the median; Q3: the 3rd quartile; P90: the 90th percentile.

1- DEEP BRAIN STIMULATION (DBS)

Parkinson's disease (DBS of the internal pallidum)

K. DUJARDIN, P. KRYSKOWIAK, L. DEFEBVRE, S. BLOND, A. DESTEE. A case of severe dysexecutive syndrome consecutive to chronic bilateral pallidal stimulation. *Neuropsychologia*, 2000, 38: 1305-1315. **Impact Factor B**

Parkinson's disease (DBS of the subthalamic nucleus)

S. BLOND, G. TOUZET, P. KRYSKOWIAK, L. DEFEBVRE, A. DESTEE. Neurosurgical treatment of Parkinson's disease: which technique is best? *Rev. Neurol.*, 2000, 156 (suppl 2): 257-269. **Impact Factor E**

L. DEFEBVRE, P. KRYSKOWIAK, S. BLOND, A. DESTEE. Stimulation électrique chronique du pallidum interne et du noyau subthalamique dans la maladie de Parkinson (Chronic electrical stimulation of the internal pallidum and the subthalamic nucleus in Parkinson's disease). *Press. Méd.*, 2000, 29: 1525-1531. **Impact Factor D**

K. DUJARDIN, L. DEFEBVRE, P. KRYSKOWIAK, S. BLOND, A. DESTEE. Influence of chronic bilateral stimulation of the subthalamic nucleus on cognitive function in Parkinson's disease. *J. Neurol.*, 2001, 248: 603-611. **Impact Factor B.**

M. ROUSSEAUX, P. KRYSTKOWIAK, O. KOZLOWSKI, C. OZSANCAK, S. BLOND, A. DESTEE. Effects of subthalamic nucleus stimulation on dysarthria and speech intelligibility in Parkinson's disease. *J Neurol.*, 2004, 251:327,334. **Impact Factor B.**

K. DUJARDIN, S. BLAIRY, L. DEFEBVRE, P. KRYSTKOWIAK, U. HESS, S. BLOND, A. DESTEE. Subthalamic nucleus stimulation induces deficits in decoding emotional facial expressions in Parkinson's disease. *J. Neurol. Neurosurg. Psychiatry*, 2004 Feb; 75(2): 202-208. **Impact Factor B.**

V. FRAIX, J.L. HOUETO, C. LAGRANGE, P. KRYSTKOWIAK, D. GUEHL, C. ARDOUIN, M.L. WELTER, L. DEFEBVRE, A. ROUGIER, A.L. BENABID, V. MESNAGE, S. BLOND, P. BURBAUD, B. BIOULAC, A. DESTEE, P. CORNU, P. POLLAK on behalf of the French SPARK Study Group. Double-blind multicentre study of bilateral subthalamic nucleus deep brain stimulation in Parkinson's disease. *J. Neurol. Neurosurg. Psychiatry*. 2006 Apr;77(4):443-9. **Impact Factor B**

PERRIOL MP, KRYSTKOWIAK P., DEFEBVRE L., BLOND S., DESTEE A., DUJARDIN K. Stimulation of the subthalamic nucleus in Parkinson's disease: Cognitive and affective changes are not linked to the motor outcome. *Parkinsonism Relat Disord*. 2006 May;12(4):205-10. **Impact Factor D.**

M. TIR, D. DEVOS, S. BLOND, G. TOUZET, N. REYNS, A. DUHAMEL, K. DUJARDIN, F.CASSIM, A. DESTÉE, L. DEFEBVRE, P. KRYSTKOWIAK. Exhaustive, one-year follow-up of subthalamic nucleus DBS in a large, single-centre cohort of parkinsonian patients. *Neurosurgery* 2007 Mar 15). **Impact Factor B**

C. SIMONIN, M. TIR, D. DEVOS, A. KREISLER, K. DUJARDIN, N. WAUCQUIER, P. DEVOS, F. CASSIM, S. BLOND, L. DEFEBVRE, A. DESTEE, P. KRYSTKOWIAK. Stimulation of the subthalamic nucleus in Parkinson's disease: 5 years follow-up and predictive factors. 2007 (*Movement Disorders, second revision*). **Impact Factor B.**

Dystonia

M. VIDAILHET, L. VERCUEIL, JL. HOUETO, P. KRYSTKOWIAK, AL. BENABID, P. CORNU et al. Bilateral pallidal deep brain stimulation in primary generalized dystonia: results of the SPIDY French Multicenter Study. *New England J of Med.*, 2005 Feb 3;352(5):459-67. **Impact Factor A**

PILLON B, ARDOUIN C, DUJARDIN K, VITTINI P, PELISSOLO A, COTTENCIN O, VERCUEIL L, HOUETO JL, KRYSTKOWIAK P, AGID Y, DESTEE A, POLLAK P, VIDAILHET M; French SPIDY Study Group. Preservation of cognitive function in dystonia treated by pallidal stimulation. *Neurology* 2006 May 23;66(10):1556-8. **Impact Factor A**

P. KRYSTKOWIAK, TEZENAS DU MONTCEL S, VERCUEIL L, HOUETO JL, LAGRANGE C, CORNU P, BLOND S, BENABID AL, POLLAK P, VIDAILHET M and THE SPIDY GROUP (FRENCH PALLIDAL STIMULATION GROUP FOR DYSTONIA). Reliability of the Fahn-Marsden scale in a multicenter trial. *Mov Disord.* 2007 Apr;15;22(5):685-9. **Impact Factor B**

M. VIDAILHET, L. VERCUEIL, JL. HOUETO, P. KRYSTKOWIAK, C. LAGRANGE, J. YELNIK et al. Bilateral, pallidal, deep-brain stimulation in primary generalised dystonia: a prospective 3 year follow-up study. *Lancet Neurol.* 2007 Mar;6(3):223-229. **Impact Factor A.**

J.L. HOUETO, J. YELNIK, E. BARDINET, L. VERCUEIL, P. KRYSTKOWIAK, V. MESNAGE, C. LAGRANGE, D. DORMONT, J.F. LEBAS, J.P. PRUVO, S. TEZENAS DU MONCEL, P. POLLAK, Y. AGID, A. DESTÉE, M. VIDAILHET and the French SPIDY Study group. Acute dorsal versus ventral pallidal deep brain stimulation in primary dystonia: functional mapping of the pallidum. *Arch. Neurol.* 2007 (in press). **Impact Factor A.**

L VERCUEIL, JL HOUETO, P KRYSTKOWIAK, C LAGRANGE, F CASSIM, A BENZAOUZ, B PIDOUX, A DESTÉE, Y AGID, P CORNU, S BLOND, AL BENABID, P POLLAK, M VIDAILHET AND THE SPIDY GROUP (FRENCH PALLIDAL STIMULATION GROUP FOR DYSTONIA). Effects of pulse width

variations in pallidal stimulation for primary generalized dystonia. 2007 *J Neurol*, 2007 Jun 29. **Impact Factor B**

O OUTERYCK, S BLOND, J YELNIK, E BARDINET, A DESTEE, L DEFEBVRE, P. KRYSKOWIAK. Internal pallidal deep brain stimulation for idiopathic dystonia: what is the best target? 2007 (*J Neurol*, *submitted*). **Impact Factor B**

2- GAIT & POSTURE DISORDERS

P. KRYSKOWIAK, J.L. BLATT, J. L. BOURRIEZ, A. DUHAMEL, M. PERINA, G. KEMOUN, S. BLOND, J.D. GUIEU, A. DESTEE, L. DEFEBVRE. Chronic bilateral pallidal stimulation and levodopa do not improve gait in the same way in Parkinson's disease: a study using a video motion analysis system. *J. Neurol.*, 2001, 248: 944-949. **Impact Factor B**

L. DEFEBVRE, P. KRYSKOWIAK, J.L. BLATT, A. DUHAMEL, J.L. BOURRIEZ, M. PERINA, S. BLOND, J.D. GUIEU, A. DESTEE. Influence of pallidal stimulation and L-Dopa on gait and preparatory postural adjustments in Parkinson's disease. *Mov. Disord.*, 2002, 17: 76-83. **Impact Factor B**.

P. KRYSKOWIAK, J.L. BLATT, J.L. BOURRIEZ, A. DUHAMEL, M. PERINA, S. BLOND, J.D. GUIEU, A. DESTÉE, L. DEFEBVRE. Effects of subthalamic nucleus stimulation and levodopa treatment on gait troubles in Parkinson's disease. *Arch. Neurol.*, 2003, 60: 80-84. **Impact Factor A**

A. DUHAMEL, J.L. BOURRIEZ, P. DEVOS, P. KRYSKOWIAK, A. DESTEE, P. DERAMBURE, L. DEFEBVRE. Statistical tools for clinical gait analysis. *Gait and Posture*, 2004 Oct;20(2):204-12. **Impact Factor C**

DELVAL A, KRYSKOWIAK P, BLATT JL., LABYT E., DESTEE A., DERAMBURE P; DEFEBVRE L. Differences in anticipatory postural adjustments between self-generated and triggered gait initiation in 20 healthy subjects. *Neurophysiol Clin*. 2005 Nov-Dec;35(5-6):180-90. **Impact Factor E**.

KRYSTKOWIAK P, DELVAL A, K DUJARDIN, S BLEUSE, JL BLATT, JL BOURRIEZ, PH DERAMBURE, A DESTEE, L DEFEBVRE. Gait abnormalities induced by acquired bilateral pallidal lesions: a motion analysis study. *J Neurol* 2006 May;253(5):594-600. **Impact Factor B**

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ORAL COMMUNICATIONS AND POSTERS

III. A. INTERNATIONAL MEETINGS

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55. M.P. PERRIOL, P. KRYSKOWIAK, K. DUJARDIN, S. BLOND, A. DESTEE, L. DEFEBVRE. Stimulation of the subthalamic nucleus in Parkinson's disease: motor, cognitive and behavioural results are neither correlated with each other nor with the positioning of the active contact. *16th International Congress on Parkinson's disease and Related Disorders*, Berlin, 5-9 June 2005. *Parkinsonism and Related Disorders*, 2005, 11, suppl 2: 116.
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58. I. DEGAEY, P. KRYSKOWIAK, PH. GALLOIS, P. HAUTECOEUR.
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IVth Lille Neurological Workshop, October 4-5 1996.
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Chronic pallidal stimulation may reduce postural instability in Parkinson's disease.
International Symposium on Gait Disorders, September 4-6, 1999, Prague.
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Effect of pallidal stimulation on gait in Parkinson's disease: a study using the optoelectronic vicon system.
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63. P. KRYSKOWIAK, L. DEFEBVRE, J.L. BLATT, J.L. BOURRIEZ, S. BLOND, A. DESTEE.
Gait improvement induced by subthalamic stimulation in Parkinson's disease: a study using the optoelectronic vicon system.
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Effects of bilateral subthalamic nucleus stimulation in Parkinson's disease.
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III. B. SOCIETE FRANCAISE DE NEUROLOGIE

1. P KRYSKOWIAK, D DEVOS, K DUJARDIN, C DELMAIRE, E BARDINET, A DELVAL, M DELLIAUX, O COTTENCIN, C SIMONIN, A DESTÉE, J YELNIK, S BLOND, L DEFEBVRE et le Réseau Huntington de Langue Française. Cognitive and motor effect of GPe stimulation in Huntington's disease: preliminary data. *Rev Neurol.* 2007 Jan;163(1 Suppl):34-5.
2. D. DEVOS, E. LABYT, J.L. BOURRIEZ, F. CASSIM, P. KRYSKOWIAK, S. BLOND, P. DERAMBURE, A. DESTEE, L. DEFEBVRE.
Activation corticale au cours du mouvement analysée par les phénomènes de désynchronisation EEG: effet de la stimulation cérébrale profonde dans la maladie de Parkinson.
Société Française de Neurologie, 11 March 2004, Paris.

3. P. KRYSKOWIAK, L. DEFEBVRE, S. BLOND, A. DESTEE et le groupe français d'étude de la stimulation pallidale interne dans la maladie de parkinson.
Stimulation pallidale interne et maladie de Parkinson: résultats d'une étude multicentrique.
Société Française de Neurologie, Journées de Neurologie de Langue Française, 19 April 2001, Lyon.
Rev. Neurol, 2001, 157: S149.
4. K. DUJARDIN, L. DEFEBVRE, P. KRYSKOWIAK, J.F. DEGREEF, A. DESTEE.
Troubles des fonctions cognitives dans l'atrophie multisystématisée et la maladie de Parkinson.
Société Française de Neurologie, Séance thématique sur les syndromes parkinsoniens, 7 December 2001, Paris La Villette.
5. L. DEFEBVRE, P. KRYSKOWIAK, J.L. BLATT, M. PERINA, J.L. BOURRIEZ, G. TOUZET, S. BLOND, J.D. GUIEU, A. DESTEE.
Maladie de parkinson: effet de la stimulation du pallidum interne sur la marche et l'adaptation posturale.
Société Française de Neurologie, Journées de Neurologie de Langue Française, 8 April 1999, Lille.
6. P. KRYSKOWIAK, L. DEFEBVRE, P. MARTINAT, D. LEYS, JP. PRUVO, A. DESTEE.
Dystonies après lésions vasculaires thalamiques et striatopallidales: corrélations radiocliniques et mécanismes physiopathologiques.
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III. C. OTHER NATIONAL MEETINGS

Abstract published in a peer-reviewed journal

1. K. DUJARDIN, P. KRYSKOWIAK, L. DEFEBVRE, S. BLOND, A. DESTEE.
Un cas de syndrome dysexécutif sévère chez une patiente parkinsonienne bénéficiant d'une stimulation pallidale bilatérale. .
Société de Neuropsychologie de Langue Française, Paris, 4 December 1998.
Neuropsychologie, 1999.
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Effet de la stimulation pallidale sur la dysarthrie de la maladie de Parkinson.
14è Congrès National de la Sofmer, 14-16 Octobre 1999, Angers.
Annales de Réadaptation et de Médecine Physique, 1999, 42: 401.
3. K. DUJARDIN, JF. DEGREEF, P. KRYSKOWIAK, L. DEFEBVRE, A. DESTEE.
Troubles des fonctions exécutives dans l'Atrophie Multisystématisée et la maladie de Parkinson idiopathique.
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4. K. DUJARDIN, P. KRYSKOWIAK, L. DEFEBVRE, S. BLOND, A. DESTEE.
Développement d'un syndrome dysexécutif sévère lors d'une stimulation pallidale bilatérale.
Journées de Neurologie de Langue Française. Lille, 7-10 April, 1999.
5. K. DUJARDIN, P. KRYSKOWIAK, L. DEFEBVRE, S. BLOND, A. DESTEE.
Influence sur les fonctions cognitives de la stimulation chronique du noyau sous-thalamique.
Journées de Neurologie de Langue Française. Lille, 7-10 April, 1999.

6. R. ASSOUAD, P. KRYSKOWIAK, F. CASSIM, L. DEFEBVRE, J.D. GUIEU, A. DESTEE.
Myoclonies corticale et parkinsonisme dopasensible.
Journées de Neurologie de Langue Française, Montpellier, 12-15 April 2000.
Rev. Neurol, 2000, 156: S31.
7. L. DEFEBVRE, P. KRYSKOWIAK, J.L. BLATT, J.L. BOURRIEZ, S. BLOND, A. DESTEE, J.D GUIEU.
Effet de la stimulation cérébrale profonde (pallidum interne, noyau subthalamique) sur la marche dans la maladie de Parkinson.
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Neurophysiol. Clin., 2002, 32: 275.
8. A. DELVAL, P. KRYSKOWIAK, J.L. BLATT, P. DERAMBURE, A. DESTEE, L. DEFEBVRE.
Etude de la marche et de l'initiation dans la maladie de Huntington.
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Rev. Neurol, 2003, March: 2S29.
9. K. DUJARDIN, C. DENEVE, P. KRYSKOWIAK, L. DEFEBVRE, A. DESTEE. Intérêt du test des additions en série pour l'évaluation des troubles des fonctions exécutives dans la maladie de Parkinson. Journées de Neurologie de Langue Française, Nantes, 8-12 April 2003. *Rev. Neurol*, 2003, March: 2S145.
10. A. DELVAL, P. KRYSKOWIAK, J.L. BLATT, P. DERAMBURE, A. DESTEE, L. DEFEBVRE Etude de la marche et de l'initiation dans la maladie de Huntington. Journées de Neurologie de Langue Française, Nantes, 8-12 April 2003. *Rev. Neurol*, 2003, March: 2S29.
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12. M. TIR, D. DEVOS, C.A. MAURAGE, P. KRYSKOWIAK, N. WAUCQUIER, M. RUCHOUX, S. DEFOORT, A. DESTEE, L. DEFEBVRE. La rétinopathie dans la maladie à corps de Lewy est-elle spécifique ? *Journées de Neurologie de Langue Française*, Strasbourg, 13-17 April 2004. *Rev. Neurol*, 2004, April: 3S44.
13. O. OUTTERYCK, P. KRYSKOWIAK, S. BLOND, A. DESTEE, L. DEFEBVRE. Stimulation cérébrale profonde du GPI dans les dystonies idioapthiques: quelle est la meilleure cible ? *Journées Neurologiques de Langue Française*, 27-30 April 2005, Marseille. *Rev. Neurol*, 2005, 161, supplé 4: 2S30.
14. M. TIR M, D. DEVOS, P. KYSTKOWIAK P, F. CASSIM, K. DUJARDIN, S. BLOND S, A. DESTEE, L. DEFEBVRE. Eude d'efficacité et de tolérance de la stimulation électrique des noyaux subthalamiques dans la maladie de Parkinson: A partir d'une cohorte de 100 patients du centre de Lille. *Journées Neurologiques de Langue Française*, 27-30 April 2005, Marseille. *Rev. Neurol*, 2005, 161, supplé 4: 2S36.
15. L. TYVAERT, P. KRYSKOWIAK, F. CASSIM, E. LABYT, A. DESTÉE, P. DERAMBURE, L. DEFEBVRE. Certaines caractéristiques électrophysiologiques sont spécifiques de la dégénérescence cortico-basale. *Journées Neurologiques de Langue Française*, 27-30 April 2005, Marseille. *Rev. Neurol*, 2005, 161, supplé 4: 2S143.

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16. L. DEFEBVRE, P. KRYSKOWIAK, J.L. BLATT, S. BLOND, A. DESTEE.
Effet de la stimulation thalamique sur la marche dans la maladie de Parkinson.
Journées Nationales VICON, Paris, 28 March 1997.
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Analyse de la marche chez le parkinsonien bénéficiant d'une stimulation électrique chronique bilatérale du pallidum interne.
Journées Nationales VICON, Paris, 29 March 1999.
18. K. DUJARDIN, L. DEFEBVRE, P. KRYSKOWIAK, S. BLOND, A. DESTEE.
Conséquences sur les fonctions cognitives de la stimulation chronique du noyau sous-thalamique.
Colloque "Cerveau et Psychologie", CNRS et Société Française de Psychologie, Orléans, 28 septembre 2000.
19. P. KRYSKOWIAK, L. DEFEBVRE, J.L. BLATT, J.L. BoURRIEZ, S. BLOND, J.D GUIEU, A. DESTEE. Influence de la stimulation bilatérale du noyau subthalamique sur la marche du parkinsonien. *Journées Nationales VICON*, Nancy, 30 March 2001.
20. A. DELVAL, P. KRYSKOWIAK, F. CASSIM, L. DEFEBVRE, A. DESTEE. Le tremblement d'origine corticale: quand faut-il y penser ? *Société de Médecine du Nord*, 22 June 2001, Lille.

CURRENT RESEARCH PROJECTS

Current and future projects are *exclusively* focused on the 3 main research themes:

- Huntington's disease
- Gait & posture disorders
- Deep brain stimulation

These are Lille-based projects or collaborative projects with groups in Paris, Creteil or Brussels. In view of my recent arrival at Amiens University Hospital, just one such activity has been developed for the moment.

We wish to emphasize the emergence of a significant number of projects on Huntington's disease, whereas much less work has been performed (and published) on this disease to date. This is due to our intention to concentrate on this research theme on one hand and our later involvement in the theme, relative to the other two topics, on the other.

In addition, our intention to become increasingly involved in Huntington's disease will be accompanied by a correspondingly reduced involvement in gait and posture disorders. In contrast, deep brain stimulation will remain a high-priority theme.

HUNTINGTON'S DISEASE

(current projects)

- Coordinator of the 2-centre STIM-HD trial (Lille University Hospital, CHU Erasmus University Hospital, Brussels, Belgium) aimed at evaluating the efficacy of external pallidum stimulation in Huntington's disease (PHRC 2004, underway).

Ancillary studies:

- neurophysiological gait analysis
- perceptive analysis of speech

- PET evaluation of chronic, bilateral stimulation of the external pallidum in Huntington's disease (collaboration with Prof. S. Goldman, Erasmus University Hospital, Brussels, Belgium).
- Coordinator of the LOCAT project, in collaboration with Prof. K. Dujardin: Study of early-onset cognitive and motor disorders in Huntington's disease (underway).
- Perception of dyskinesia and mental imaging of motor activity in Huntington's disease using transcranial magnetic stimulation (projects performed as part of a 9-month research sabbatical in the INSERM research group headed by Dr AC Bachoud-Levi, Henri-Mondor University Hospital, Créteil, France, underway).
- Grafting of human foetal neural stem cells combined with administration of a neuroprotective factor in a murine model of Huntington's disease. (Clémence SIMONIN. PhD, ongoing, 1st year).
- Local coordinator (with Prof. S. Blond) of a Hospital-based Clinical Research Programme (2001, underway): "Evaluation of the effect of an intrastriatal allograft of foetal embryonic tissue in Huntington's disease". Coordinator: Prof. Kéravel, Créteil, France (6 centres in Europe).
 - Ancillary study:
 - Evaluation of the benefit of the allograft on locomotor disorders (in collaboration with Dr Arnaud DELVAL).
- Local coordinator of the "Predictive biomarkers in Huntington's disease" project. Coordinator: Dr AC Bachoud-Levi, Henri-Mondor University Hospital, Créteil, France (European multicentre project, underway).

GAIT & POSTURE DISORDERS

(current projects)

- Evaluation of the influence of the energy levels delivered by an external pulse generator on gait in the Parkinsonian during subthalamic nucleus stimulation (article being drafted).
- Evaluation of the influence of the subthalamic nucleus stimulation frequency on Parkinsonian gait disorders (1st year of C. Moreau's PhD thesis).
- Study of early-onset cognitive and motor disorders in Huntington's disease (the LOCAT project, see above).

DEEP BRAIN STIMULATION

(current projects)

DYSTONIA:

- Local coordinator of a Hospital-based Clinical Research Programme (2003): the SPIDY 2 Protocol - "Evaluation of internal pallidum stimulation in post-anoxic, generalized dystonia and idiopathic non-generalized dystonia". National coordinator: Prof. M. Vidailhet, St Antoine Hospital, Paris (5 centres), underway.
- Internal pallidum stimulation in idiopathic and post-anoxic dystonia: long-term feedback from the Lille group (underway).

HUNTINGTON'S DISEASE: see above