

CURRICULUM VITAE

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Titles MD, PhD

Last position Assistant Professor of Neurology
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MEDICAL LICENSES: California and Europe

MEDICAL AND SCIENTIFIC EDUCATION

1998-2001	Post-Doctoral Fellowship	Neuro-immunology	Stanford University School of Medicine	California
1996-1998	Residency	Neurology	University Cochin Port Royal School of Medicine	Paris, France
1995-1996	Masters	Immunology	Pasteur Institute and University Hospital Pitié Salpêtrière, CNRS URA 625	Paris
1993-1995	Residency	Neurology	University Cochin Port Royal School of Medicine	Paris
1989-1992	Internships	Medicine	University Cochin Port Royal School of Medicine	Paris
1989-1993	Student	Sciences	Ecole Normale Supérieure	Paris
1986-1993	Student	Medicine	University Cochin Port Royal School of Medicine	Paris

CERTIFICATIONS

2009	Medical License	California Medical Board	California
2006-2008	USMLE1, 2CK, 2CS, and 3 Medical Certification ECFMG	California Medical Board	California
2003	PhD in Physiology, Physiopathology and Immunology	Pasteur Institute and University Pierre and Marie Curie Jussieu	Paris, France
1998	Neurology Board Certification	University Cochin Port Royal School of Medicine	Paris
1998	Medical Degree, Medical License	University Cochin Port Royal School of Medicine	Paris
1997	Post-graduate Degree in Neuro- muscular Diseases	University Pierre and Marie Curie Jussieu	Paris
1996	Masters in Immunology	Pasteur Institute and University Pierre and Marie Curie Jussieu	Paris
1989-1993	Bachelor and Master Degrees in Biological Science	Ecole Normale Supérieure and University Pierre and Marie Curie Jussieu	Paris
1988	Undergraduate Degree in Human Biology	University René Descartes	Paris
1986	High School Diploma in Science (Baccalaureate) with Honors	Lycée Lakanal	Sceaux, France

PRINCIPAL POSITIONS HELD

2006-2009	4y	Co-director of the UCSF regional pediatric MS Center	UCSF, Department of Neurology, Multiple Sclerosis Center	California
2006-2009	4y	Assistant Professor	UCSF, Department of Neurology, Multiple Sclerosis Center	California
2003-2005	2y	Assistant Clinical Professor of Neurology	University Hospital Pitié Salpêtrière, Department of Neurology	Paris

2003-2005	2y	Principal investigator of the INSERM AVENIR Research Program in Neuro-immunology	INSERM laboratory U546 and Salpêtrière University Hospital	Paris
2001-2003	2y	Neurology Clinical Fellow	University Hospital Pitié Salpêtrière, Department of Neurology	Paris
1998-2001	3 y	Post-doctoral fellow in Neuro-immunology (Dr Lawrence Steinman's lab).	Stanford University, School of Medicine	California

AWARDS AND RECOGNITION

2009-Present Member of the American Academy of Neurology

2006 Special recognition award to the UCSF pediatric MS team by the Northern California Chapter of the National MS Society

2004 BQR Award: promoting researchers collaborating on high quality research projects within the University Pierre et Marie Curie Jussieu, Paris, France (principal investigator)

2003 PhD with highest award

2002 Research award [AVENIR](#) 2002 from INSERM (principal investigator): Three year program of granting for the promotion of young researchers with a top-ranking scientific project. Immunology of neurological diseases.

1999 Fellowship grant from the Ligue française contre la sclérose en plaques (one of the two French national MS societies)

1999 Post-doctoral fellowship grant from the Association française contre les myopathies (French myopathy society)

1998 MD thesis with highest award

1998 Lavoisier fellowship grant from the French ministry of foreign affairs

1998 Award for physicians trained abroad, from the Assistance Publique – Hôpitaux de Paris, France

1995 Fellowship grant from the Fondation pour la recherche médicale (Foundation for medical research), France

KEYWORDS / AREAS OF INTEREST

Neurology, Multiple sclerosis, pediatric multiple sclerosis, immunology of multiple sclerosis, therapeutic trials on multiple sclerosis, clinical research on pediatric multiple sclerosis, neuroesthetics, immunology of narcolepsy

PROFESSIONAL ACTIVITIES

Clinical

- 2008-2009 Attending, MS transitional clinic (monthly). Adult MS clinic for pediatric-onset MS patients transitioning to adult care.
- 2006-2009 Co-Direction of the UCSF regional pediatric MS center: I have managed the clinical program of the pediatric MS center since its opening in January 2006. I have coordinated the work of the 6 members of the team, which included a pediatric neurologist, a pediatric social worker, a pediatric neuropsychologist, a neuropsychologist trainee and a clinic coordinator), with the Director of the center. I have been the contact person of the center for professionals and referrals. I have developed the flow and coordination of comprehensive care for all patients seen at the center. I have led in the upgrade of the UCSF adult MS database to accommodate the specificities of pediatric patients.
- 2006-2009 Attending, Pediatric MS Clinic, UCSF (weekly)
- 2006-2009 Attending, for pediatric patients with MS and related diseases hospitalized at UCSF

Research

- 2008-2009 Leading the national pediatric MS network project on pediatric MS CSF profile
- 2008-2009 National collaborations with the National network of pediatric MS centers of excellence on various aspects of pediatric MS (safety of disease modifying therapy, plasma exchange, epilepsy, biomarkers)
- 2008-2009 International collaboration with the International pediatric MS study group on biological and environmental aspects of pediatric MS
- 2008-2009 Evaluating physician in a phase III trial on fumaric acid in MS, UCSF
- 2006-2009 Principal investigator of the pediatric MS cohort study at UCSF (database, databank)
- 2006-2009 Evaluating physician in a phase II trial on neuroprotection in early MS, UCSF
- 2006-2009 Continuing the project on secretory immunity in the CSF, an international study that I initiated in France as a PI
- 2006-2007 Co-mentoring a visiting professor, Dr Canh Quan, in the sleep laboratory of Dr Emmanuel Mignot, Stanford University: immunology of narcolepsy and MS
- 2002-2003 Patient selection in the REOPROMMS study: Longitudinal follow up of brain multimodal MRI in Multiple Sclerosis, Sponsor Serono. University Hospital Pitié Salpêtrière, department of neurology, Paris, France
- 2001-2003 Evaluating physician in a phase III therapeutic trial of Antegren® + Avonex® versus Avonex® in Multiple Sclerosis, Sponsor Biogen. University Hospital Pitié Salpêtrière, department of neurology, Paris, France
- 2001-2003 Evaluating physician in a phase II therapeutic trial of CTLA4 Ig versus placebo in Multiple Sclerosis, Sponsor BMS. University Hospital Pitié Salpêtrière, department of neurology, Paris, France.

Teaching and mentoring

Teaching

- 2007-2009 Teaching how to collect and enter clinical research data for collaborative studies on pediatric MS to a visiting neurology resident (Tamara Castillo), students (Ivan De Kouchkovsky, Alexander Fay), and research coordinators (Jamie McDonald), UCSF
- 2006-2009 Teaching pediatric MS to child neurology residents and fellows shadowing the weekly pediatric MS clinic and attending the weekly pediatric MS conference, UCSF
- 2001-2003 Teaching neurology to nurses and social workers, Department of Neurology, Salpêtrière Hospital, Paris, France
- 2001-2003 Daily informal training, formal teaching and evaluation of neurology residents, University Hospital Pitié Salpêtrière, department of neurology, Paris, France
- 1995 Teaching the neurology course at the Nursing School, University Hospital Paris Ouest, France

Mentoring

- 2008-2009 Supervision of outside pediatric neurologists visiting the UCSF pediatric MS center for 1 day to 1 week (2 in 2008, 1 in 2009)
- 2008 Mentoring and supervising the clinical research activity of Ivan De Kouchkovsky, pre-medical student at the UCSF Regional Pediatric MS Center: pediatric MS database management and analysis of CSF profile of pediatric MS patients
- 2006-2007 Mentoring and co-supervising the research projects of Dr Canh Quan in the laboratory of Dr Emmanuel Mignot at Stanford University, Stanford, CA: Secretory immunity in MS, and immunology of narcolepsy
- 1999-2001 Mentoring two summer students in the neuro-immunology laboratory of Lawrence Steinman, Stanford Medical School, CA

Postgraduate and other courses

- 2009 Teaching conference in the department of neurology at UCSF
- 2008-2009 Leading of the quarterly educational Webinar on pediatric MS dedicated to neurologists and pediatric neurologists of the West Coast
- 2008 Teaching conference in the department of neurology at UCSF
- 2008 Journal Club of Neuro-immunology at UCSF
- 2007 Reader of Sunny Im-Wang for her psychological degree of clinical psychology, Wright Institute, Berkeley, California
- 2007 Journal Club of Neuro-immunology at UCSF
- 2007 Teaching conference in the department of neurology at UCSF
- 2006-2009 Leading the pediatric MS educational program
- Participation in Grand Rounds / educational lectures on pediatric MS in regional, national or international settings (see *invited presentations*)
 - Leading the weekly case conference of the pediatric MS center
 - Leading the quarterly pediatric MS webinar
- 2006 Journal Club of Child Neurology at UCSF
- 2003 Jury Member for the defense of the ESTBA Diploma (Ecole Supérieure des techniques de biologie appliquée = school of biology technicians)
- 2002 Teaching neurology to residents preparing the Board of Neurology, Paris, France
- 2001 Teaching neurology to residents preparing the Board of Ophthalmology, Paris, France

Others

2007-2009 Editor and author of the yearly pediatric MS newsletter geared towards child and adult neurologists

PROFESSIONAL ORGANIZATIONS

Service for professional societies

- 2008-2009 Member of the International Pediatric MS Study Group subgroup on biological sample collection
- 2008-2009 Member of the International Pediatric MS Study Group subgroup on pediatric MS Environmental Questionnaire
- 2007-2009 Steering Committee liaison to the social work subcommittee for the NMSS Network of Pediatric MS Centers of Excellence
- 2007-2009 Member of the database subcommittee for the NMSS Network of Pediatric MS Centers of Excellence
- 2005-2009 Member of the steering committee of the National Multiple Sclerosis Society (NMSS) Network of Pediatric MS Centers of Excellence
- 2005-2009 Member of the International Pediatric Multiple Sclerosis Study Group

Service to Professional Organizations

- 2007 Led the UCSF pediatric MS educational program for the Southern California Chapter and the Utah Chapter of the NMSS (for NMSS members and professionals)
- 2006-2009 Collaboration with the Northern California Chapter of the NMSS for the UCSF pediatric MS program
 - Participation in meetings for NMSS members and MS patients: Oakland 2006, San Francisco 2007
 - Participation in NMSS board meeting, San Francisco 2008
 - Participation in fund raising: Dinner of Champions 2006, MS bike ride 2007

Service to professional publications:

2004 – present Ad-hoc reviewer for Sleep, Brain, Neurology, Annals of Oncology, Annals of Neurology , Archives of Neurology

UNIVERSITY AND PUBLIC SERVICE

Clinical service

2008-2009 **Transitional MS clinic**
I created a UCSF transitional MS clinic at the adult MS center in June 2008 in order to facilitate the continuation of care of pediatric-onset MS patients into adult care.

2006-2009 **Coordination of the pediatric MS clinical program**
After I started at UCSF in January 2006, I dedicated 95% of my actual time to build the UCSF Regional Pediatric MS Program from scratch, as the co-Director of the Center. This included a weekly multidisciplinary clinic, and collaborating with the 5 other centers across the country that have been designated by the National MS Society as part of the National Network of Centers of Excellence. I coordinated the work of the clinical team of the center, which included 6 people, from both adult and pediatric background, in order to create a clinic model that provides a state of the art type of pediatric MS care, and still is child and family friendly.

2006-2009 **Coordination of the pediatric MS educational program geared towards patients, families and professionals**
As pediatric MS is rare and under-diagnosed, our initial challenge was to educate professionals and the community about the disease. I spent a lot of effort towards this educational goal during the first 2 years, giving multiple conferences and developing educational material. This has continued over the next 2 years, with less lectures but a newly created webinar and a yearly newsletter.

- Leading the yearly UCSF pediatric MS center day (“Family Fun Day”) for patients and families
- Creation and maintenance of the web site of the UCSF Pediatric MS Center (www.ucsfhealth.org/pedsms)
- Coordination of the development and production of educational material for pediatric MS patients and their families (ex handbook on school issues related to pediatric MS and its production on a national scale)
- Promotion of the pediatric MS program to the public via the production of a public service announcement launched online (YouTube)
- Editor and author of a yearly newsletter about pediatric MS that was sent out yearly to more than 3000 neurologists, child neurologists, pediatricians and family practitioners

2006- 2009 **Coordination of the promotion / public relations of the UCSF regional pediatric MS center**

I have worked with the public relation and marketing departments at UCSF Children’s Hospital to promote our program within and beyond UCSF.

2006-2009 Creation and distribution of the pediatric MS fact sheet

2006 Article in *UCSF Neuroscience News*

2006 Article in *UCSF today*

2006 Article in *To Our Neighbours*, produced by UCSF

2006 *Artists without Boundaries* TV show, Channel 29

2007 *ABC news* (see www.ucsfhealth.org/pedsms)

Departmental Service

2007 Presentation of the pediatric MS program to the UCSF conference for nurses and clinical coordinators from the Bay Area

2006-2009 Coordinating the weekly case conference at the UCSF MS Center

2006-2009 Ad-hoc faculty reviewer

2001-2003 Coordination of the monthly neurogenetics conference

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University Hospital Pitié Salpêtrière, department of neurology, Paris, France

University service

- 2008-2009 Member of the UCSF Chancellor's Advisory Committee on the Status of Women (CACSW)
2007-2009 Collaboration on stories for the UCSF main website (referral of patients)
2006-2007 Member of the parent oversight committee at the UCSF day care center

Community service

- 2012-Present Director, Tapooz Travel LLC Advisory Board, Senior Medical Advisor. Tours and adventures for travelers of all abilities, their families and their friends.
<http://www.tapooztravel.com/>
2006 to present Room parent at the Lycee Francais La Perouse, and at the French American International School, San Francisco

INVITED PRESENTATIONS

International

- 2007 Spanish Neurological Society, Barcelona. Pediatric MS, an adult disease in a child's body.
2007 Child Neurology Society meeting, Quebec. Symposium "Sorting through the spectrum of pediatric demyelinating disease"
2003 French speaking neurology meeting in Lebanon, Beirut, Lebanon. Immunology of the axon: how to protect it?
2002 Osteopontin meeting, San Antonio. Elevated osteopontin transcripts in MS brain libraries and its role in the development of progressive versus remitting autoimmune encephalomyelitis.

National

- 2007 Expert meeting on pediatric MS, New York City, hosted by *Serono Pfizer*
2003 Recent advances in Multiple sclerosis, Paris, France. Large-scale transcriptional analysis of multiple sclerosis.
2002 French Neurology Society meeting, Paris, France. The influence of osteopontin on MS and its animal model EAE.

Regional and other invited presentations

- 2009 Grand Rounds on pediatric MS, John Muir Medical center, Walnut Creek, CA
2008 Grand Rounds on pediatric MS, Cedars Sinai Hospital, Los Angeles, CA
2008 Grand Rounds on pediatric MS, Las Vegas General Hospital, Las Vegas, NE
2008 Invited presentation on pediatric MS for neurologists and pediatric neurologists of the local community, Las Vegas, NE, hosted by Teva Neurosciences
2008 CME program on pediatric MS, Mayo Clinic, Rochester, MN

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- 2007 Grand Rounds on adult MS, Dameron Hospital, Stockton, CA
- 2007 Grand Rounds on pediatric MS, Marin General Hospital, Marin, CA
- 2007 Grand Rounds on pediatric MS, Childrens Hospital, Los Angeles CA
- 2007 Grand Rounds on pediatric MS, Loma Linda Hospital, Loma Linda, CA
- 2007 Southern California Chapter of the National Multiple Sclerosis Society, Lecture on pediatric MS, Los Angeles, CA
- 2007 Grand Rounds on pediatric MS, University of California at Davis, Sacramento, CA
- 2007 Grand Rounds on pediatric MS, University of California at San Diego, San Diego, CA
- 2007 Grand Rounds on pediatric MS, Monterrey General Hospital, Monterrey, CA
- 2007 CME program on pediatric MS, University of Utah, Salt Lake City, UT
- 2007 American Academy of Pediatrics, Northern California Chapter, San Francisco, CA.
- 2006 Psychiatry and Behavioral Science -Sleep Center, Stanford University, CA.
- 2006 Northern California Chapter of the National Multiple Sclerosis Society, Lecture on pediatric MS to NMSS members, Oakland, CA
- 2006 Grand Rounds on pediatric MS, Dameron Hospital, Stockton, CA
- 2006 Grand Rounds on pediatric MS, General Hospital, San Jose, CA
- 2006 Grand Rounds on pediatric MS, Oakland Children's Hospital, Oakland, CA
- 2006 Journal Club of Neuroimmunology at UCSF on pediatric MS, San Francisco, CA
- 2006 Grand Rounds on pediatric MS, Division of Neurology, Stanford University School of Medicine,
- 2006 Grand Rounds on pediatric MS, Kaiser, Oakland, CA
- 2006 Grand Rounds on pediatric MS, Santa Clara Valley Medical Center, San Jose, CA
- 2006 Grand Rounds on pediatric MS, Santa Rosa Sutter Medical Center, Santa Rosa, CA
- 2005 Laboratory of sleep pharmacology, on the autoimmune hypothesis and metabolic changes in narcolepsy, Pitié Salpêtrière University Hospital, Paris, France.
- 2005 Department of Neurology, UCSF, CA, USA.
- 2004 Intensive care unit department, on autoimmunity and eating behavior in narcolepsy. Raymond Poincaré University Hospital, Garches, France.
- 2004 First translational research day on multiple sclerosis, on the immunology of multiple sclerosis and the cerebrospinal fluid banking project, Pitié Salpêtrière University Hospital, Paris, France.
- 2002 Journal Club, INSERM U546 laboratory, on the influence of osteopontin on multiple sclerosis and its animal model EAE. Pitié Salpêtrière University Hospital, Paris, France.
- 2002 Grand Rounds, neuropathology department, on the influence of osteopontin on MS and its animal model EAE. Pitié Salpêtrière University Hospital, Paris, France.

CME COURSES ATTENDED

- 2009 American Academy of Neurology annual meeting
Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS) annual meeting
Child Neurology Society annual meeting
UCSF Neurology Grand Rounds
- 2008 American Academy of Neurology annual meeting
CME program on pediatric MS, Mayo Clinic, Rochester , MN
Joint Americas and European Committees for Treatment and Research in Multiple Sclerosis (ACTRIMS / ECTRIMS) annual meeting
Child Neurology Society annual meeting
UCSF Neurology Grand Rounds
- 2007 American Academy of Neurology annual meeting

- Child Neurology Society annual meeting
- American Neurological Association annual meeting
- UCSF post-graduate course: Recent Advances in Neurology, San Francisco
- UCSF Neurology Grand Rounds
- 2006 American Academy of Neurology annual meeting
- UCSF post-graduate course: Recent Advances in Neurology, San Francisco
- UCSF Neurology Grand Rounds
- 2005 American Academy of Neurology annual meeting
- Société Française de Neurology (French Neurology Society) annual meeting
- Journée neurologiques de langue française (French speaking Society of neurology) annual meeting
- 2004 Société Française de Neurology (French Neurology Society) annual meeting
- 2003 Société Française de Neurology (French Neurology Society) annual meeting
- European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS) annual meeting
- Journée neurologiques de langue française (French speaking Society of neurology) annual meeting
- 2002 American Academy of Neurology annual meeting
- Joint Americas and European Committees for Treatment and Research in Multiple Sclerosis (ACTRIMS / ECTRIMS) annual meeting
- Société Française de Neurology (French Neurology Society) annual meeting
- French Sleep Research Society annual meeting
- 2001 Société Française de Neurology (French Neurology Society) annual meeting
- 2000 American Academy of Neurology annual meeting
- American Academy of Immunology annual meeting

FUNDED RESEARCH AND CLINICAL GRANTS / CONTRACTS

- 2007 Quality of Life Grant. “Let’s Go” (PI: D Chabas and E Crabtree)
- MS Foundation
- \$36,800

Goal: Travel fund for patients needing financial assistance to come to the UCSF regional pediatric MS center.

- 2007-2009 Unrestricted grant for research on pediatric MS (PI)
- Donations
- \$25,000 +

Goal: Conduct research on pediatric MS

- 2006-2011 Regional Pediatric MS Center (PI: E Waubant, Co-Investigator: D Chabas)
- National MS Society
- Five-year program. \$1,560,712

Goal: offer comprehensive care to children with MS and other CNS demyelinating diseases, and develop research to improve our understanding of the disease in young patients.

PUBLICATIONS

Research

1. Waubant E, Mowry EM, Krupp L, Chitnis T, Yeh EA, Kuntz N, Ness J, **Chabas D**, Strober J, McDonald J, Belman A, Milazzo M, Gorman M, Weinstock-Guttman B, Rodriguez M, Oksenberg JR, James JA; US Pediatric MS Network. Neurology. Common viruses associated with lower pediatric multiple sclerosis risk. *Neurology*. 2011 Jun 7;76(23):1989-95.
2. Waldman AT, Gorman MP, Rensel MR, Austin TE, Hertz DP, Kuntz NL; **Network of Pediatric Multiple Sclerosis Centers of Excellence of National Multiple Sclerosis Society**. Management of pediatric central nervous system demyelinating disorders: consensus of United States neurologists. *J Child Neurol*. 2011 Jun;26(6):675-82. Epub 2011 Apr 25.
3. Castillo-Trivino T, Mowry E, Gajofatto A, **Chabas D**, Crabtree-Hartman E, Cree BA, Goodin DS, Green AJ, Hauser SL, Okuda DT, Pelletier D, Zamvil S, Vittinghoff E, Waubant E. Switching to second line therapy in multiple sclerosis patients with breakthrough disease. *PLoS One*. 2011 Feb 3;6(2):e16664
4. Yeh EA, Waubant E, Krupp LB, Ness J, Chitnis T, Kuntz N, Ramanathan M, Belman A, **Chabas D**, Gorman MP, Rodriguez M, Rinker JR 2nd, Weinstock-Guttman B; National Network of Pediatric MS Centers of Excellence. Multiple sclerosis therapies in pediatric patients with refractory multiple sclerosis. *Arch Neurol*. 2011 Apr;68(4):437-44.
5. Mowry EM, Julian L, Im-Wang S, **Chabas D**, Galvin A, Strober J, Waubant E. Health-Related Quality of Life is Reduced in Early Pediatric Multiple Sclerosis. *Pediatr Neurol*. 2010 Aug;43(2):97-102.
6. Krueger MC, Koch TK, Bourdette D, **Chabas D**, Waubant E, Mueller S, Moscarello MA, Dalmau J, Woltjer RL, and Adamus G. NMDA receptor encephalitis mimicking seronegative neuromyelitis optica *Neurology*. 2010 May 4;74(18):1473-5.
7. Mowry EM, Krupp LB, Milazzo M, **Chabas D**, strober J, Belman A, McDonald JC, Oksenberg JR, Bacchetti P, Waubant E. Vitamin D status is associated with relapse rate in **pediatric**-onset multiple sclerosis. *Ann Neurol*. 2010 May;67(5):618-24.
8. **Chabas D**, Ness J, Belman A, Yeh E, Kuntz N, Gorman M, Strober J, De Kouchkovsky I, McCulloch C, Chitnis T, Rodriguez M, Weinstock-Guttman B, Krupp L, Waubant E, and the US Network of Pediatric MS Centers of Excellence. Younger children with MS have a distinct CSF inflammatory profile at disease onset. *Neurology*. 2010 Feb 2;74(5):399-405
9. Waubant E, **Chabas D**, Okuda DT, Glenn O, Mowry EM, Henry R, Strober J, Soares B, Wintermark, M Pelletier D. Difference in disease burden and activity in pediatric patients on brain magnetic resonance imaging at time of multiple sclerosis onset vs adults. *Archives of neurology*, 2009 Aug;66(8):967-71.
10. Weiss N, Hsboun D, Demeret S, Fontaine B, Bolgert F, Lyon-Caen O, **Chabas D**. Paroxysmal hypothermia as a clinical feature of multiple sclerosis. *Neurology*, 2009 Jan 13;72(2):193-5.
11. **Chabas D**, Castillo T, Mowry E, Waubant E. Vanishing MS T2-bright lesions before puberty: a distinct MRI phenotype? *Neurology*, 2008 Sep 30;71(14):1090-3.
12. **Chabas D**, Foulon C, Gonzalez J, Nasr M, Lyon-Caen O, Willer JC, Derenne JP, Arnulf I. Eating disorder and metabolism in narcoleptic patients. *Sleep*. 2007 Oct 1;30(10):1267-73.
13. **Chabas D**, Habert MO, Maksud P, Tourbah A, Minz M, Willer JC, Arnulf I. Functional imaging of cataplexy during status cataplecticus. *Sleep*. 2007 Feb 1;30(2):153-6.
14. Karpuj MV, Becher MW, Springer JE, **Chabas D**, Pedotti R, Mitchell D and Steinman L. Prolonged Survival and Decreased Chorea and Dystonia in Transgenic Model of Huntington's

- Disease, with Administration of Cystamine, a Transglutaminase Inhibitor. *Nature Medicine*, 2002 Feb;8(2): 143-9.
15. **Chabas D**, Baranzini SE, Mitchell D, Bernard CCA, Rittling SR, Denhardt DT, Sobel RA, Lock C, Karpuj MV, Pedotti R, Heller R, J. R. Oksenberg, and L. Steinman. The Influence of Osteopontin On Autoimmune Demyelinating Disease. *Science*, 2001; 294: 1731-5.
 16. Pedotti R, Mitchell D, Wedemeyer J, Karpuj M, **Chabas D**, Hattab EM, Tsai M, Galli SJ, Steinman L. An unexpected version of horror autotoxicus: anaphylactic shock to a self-peptide. *Nature Immunology*. 2001 Mar;2(3):216-22.
 17. Lozeron P, **Chabas D**, Duprey B, Lyon-Caen O and Liblau R: T cell receptor Vb5 and Vb17 clonal diversity in cerebrospinal fluid and peripheral blood lymphocytes of multiple sclerosis patients. *Multiple sclerosis*. 1998; 4: 154-161.
 18. Van Weyenbergh J, Lipinski P, Abadie A, **Chabas D**, Liblau R, and Wietzerbin J : Antagonist action of interferon-beta and interferon-gamma on high affinity FCg receptor expression in normal subjects and multiple sclerosis patients. *Journal of immunology*. 1998; 161: 1568-1574.

Nonexperimental publications

1. Chitnis T, Krupp L, Yeh A, Rubin J, Kuntz N, Strober JB, **Chabas D**, Weinstock-Guttman B, Ness J, Rodriguez M, Waubant E. Pediatric multiple sclerosis. *Neurol Clin*. 2011 May;29(2):481-505.
2. Kuntz NL, **Chabas D**, Weinstock-Guttman B, Chitnis T, Yeh EA, Krupp L, Ness J, Rodriguez M, Waubant E; Network of US Pediatric Multiple Sclerosis Centers. Treatment of multiple sclerosis in children and adolescents. *Expert Opin Pharmacother*. 2010 Mar;11(4):505-20.
3. Yeh EA, Chitnis T, Krupp L, Ness J, **Chabas D**, Kuntz N, Waubant E; US Network of Pediatric Multiple Sclerosis Centers of Excellence. Pediatric multiple sclerosis. *Nat Rev Neurol*. Nov;5(11):621-31
4. Waubant E., **Chabas D**. Pediatric multiple sclerosis. *Curr Neurol Neurosci Rep*. 2009, 11:203–210
5. **Chabas D**, Strober J, Waubant E. Pediatric multiple sclerosis. *Curr Neurol Neurosci Rep*. 2008 Sep;8(5):434-41.
6. Pohl D, Waubant E, Banwell B, **Chabas D**, Chitnis T, Weinstock-Guttman B, Tenenbaum S; International Pediatric MS Study Group. Treatment of pediatric multiple sclerosis and variants. *Neurology*. 2007 Apr 17;68(16 Suppl 2):S54-65
7. Ness JM, **Chabas D**, Sadovnick AD, Pohl D, Banwell B, Weinstock-Guttman B; International Pediatric MS Study Group. Clinical features of children and adolescents with multiple sclerosis. *Neurology*. 2007 Apr 17;68(16 Suppl 2):S37-45.
8. **Chabas D**, Green A, Waubant E. Pediatric multiple sclerosis. *NeuroRx*. 2006 Apr;3(2):264-75.
9. **Chabas D**. Recent advances in the immunology of multiple sclerosis. *Rev Neurol (Paris)*. 2006 Feb; 162(2):162-73.
10. **Chabas D**. Osteopontin, a multifaceted molecule. *Médecine Sciences*. 2005; 21(10):832-8.
11. **Chabas D**. New therapeutic targets in multiple sclerosis. *Neurologies*. 2005.
12. **Chabas D**, Taheri S, Renier C, Mignot E. The genetics of narcolepsy. *Annu Rev Genomics Hum Genet*. Sep 2003, Vol. 4, pp. 459-483.
13. molecules. *Neurologies* 2002.
14. **Chabas D**, Fontaine B, Lyon-Caen O. Multiple sclerosis. Orphanet from 2002-present <http://orphanet.infobiogen.fr/data/patho/GB/uk-MS.html>

15. **Chabas D.** Large scale transcriptional analysis of multiple sclerosis: identification of new target
16. **Chabas D,** Liblau R. Role of autoimmunity in multiple sclerosis. *Pathologie Biologie* 2000 Feb; 48(1):25-46.
17. **Chabas D.** The cytokines in the central nervous system during demyelinating diseases. *La lettre du Neurologue.* 1999; 1: 25-26.
18. **Chabas D.** Antiépileptiques, principes et règles d'utilisation. (*Antiepileptic drugs*) *Impact Internat.* Avril 1998, vol 8: 61-70.
19. Liblau R, **Chabas D.** The immunology of multiple sclerosis. *Journal faxé des neurologues.* 1997.
20. **Chabas D.** Antiépileptiques, principes et règles d'utilisation. (*Antiepileptic drugs*). *Impact Internat.* Mai 1996, vol 9: 91-99.

Other publications

1. **Chabas D,** Pelletier D. Sorting through pediatric MS spectrum with brain MRI. *Nature Neurology News and Views, Nat Rev Neurol.* 2009 Apr;5(4):186-8.
2. Krupp LB, Banwell B, Tenembaum S; **International Pediatric MS Study Group.** Consensus definitions proposed for pediatric multiple sclerosis and related disorders. *Neurology.* 2007 Apr 17;68(16 Suppl 2):S7-12.
3. Steinman L, Youssef S, Van Venrooij Y, **Chabas D,** Baranzini SE, Rittling S, Denhardt DT, Sobel RA, Lock C, Pedotti R, Oksenberg JR. Response to Comment on "The influence of the Proinflammatory Cytokine, Osteopontin, on Autoimmune Demyelinating Disease". *Science.* 2003 Mar 21; 299(5614): 1845.

Communications / abstracts

1. Fay A, Mowry E, **Chabas D,** Strober J, Waubant E. Severity and recovery of Exacerbations in early Pediatric Multiple Sclerosis (2010 AAN meeting)
2. Waubant E, **Chabas D,** Strober J, Milazzo M, Belman A, Krupp L2. 5(OH) Vitamin D levels in children with pediatric-onset MS and controls. 2009 ACTRIMS meeting
3. **The US Network of Pediatric MS Centers,** Mowry E, James J, Oksenberg J Waubant E, **Chabas D,** Strober J, Milazzo M, Belman A, Krupp L2. 5(OH) Vitamin D levels in children with pediatric-onset MS and controls. 2009 ACTRIMS meeting
4. **The US Network of Pediatric MS Centers,** Mowry E, James J. Remote EBV, CMV, and HSV-1 and -2 infection and DRB1*1501/1503 status in children with pediatric-onset MS. 2009 ACTRIMS meeting
5. **The US Network of Pediatric MS Centers,** Mowry E, James J. Remote EBV, CMV, and HSV-1 and -2 infection status in children with pediatric-onset MS compared to age-matched healthy controls. 2009 ACTRIMS meeting
6. James JA, Anderson J, **Chabas D,** Strober J, Waubant E. Pediatric-onset multiple sclerosis patient sera recognize unique regions of Epstein-Barr nuclear antigen 1 compared to matched controls. Submitted to 2009 ACTRIMS meeting
7. Ness J, **Chabas D,** Yeh E, Gorman M, Kuntz N and and the NMSS Network of Pediatric MS Centers of Excellence. Epilepsy in Pediatric Demyelinating Diseases. 2009 ACTRIMS meeting
8. Ness J, **Chabas D,** Waubant E, Kuntz N, Wray R, Weinstock-Guttman B and the NMSS Network of Pediatric MS Centers of Excellence. Use of plasmapheresis in pediatric demyelinating disease.

- 2009 ACTRIMS meeting
9. Yeh E, Krupp L, Ness J, **Chabas D**, Kuntz N, Chitnis T, A Belman, Waubant E, Rodriguez M, Gorman M, Weinstock-Guttman B. Breakthrough disease in pediatric MS patients: a pediatric network experience. 2009 ACTRIMS meeting
 10. **Chabas D**, Seilhean D, Rozenberg F, Sharshar T, Nishino S, Fontaine B, Lyon-Caen O, Mignot E, Quan C. The brain as an effector site of secretory immunity in inflammatory neurological disorders. 2009 ACTRIMS meeting
 11. **Chabas D**, Ness J, Yeh E, Kuntz N, De Kouchkovsky I, Strober JB, Gorman M, Chitnis T, Belman A, Krupp L, Rodriguez M, Weinstock-Guttman B, Waubant E, and the US Pediatric MS Network of Pediatric MS Centers of Excellence. Pediatric MS before puberty: a distinct CSF inflammatory profile. 2009 ACTRIMS meeting (platform presentation)
 12. Nash K, Teasdale S, Cuneo A, Strober J, **Chabas D**, Waubant E, Green A. Evidence for Axonal Loss and Prominent Color Deficits in Children with MS or Clinically Isolated Syndrome. 2009 AAN meeting
 13. Ness J, **Chabas D**, Waubant E, Kuntz N, Wray R, Weinstock-Guttman B and the NMSS Network of Pediatric MS Centers of Excellence. Use of plasmapheresis in pediatric demyelinating disease. 2009 AAN meeting
 14. Yeh E, Krupp L, Ness J, **Chabas D**, Kuntz N, Chitnis T, A Belman, Waubant E, Rodriguez M, Gorman M, Weinstock-Guttman B. Breakthrough disease in pediatric MS patients: a pediatric network experience. 2009 AAN meeting (platform presentation)
 15. **Chabas D**, Seilhean D, Rozenberg F, Sharshar T, Nishino S, Fontaine B, Lyon-Caen O, Mignot E, Quan C. The brain as an effector site of secretory immunity in inflammatory neurological disorders. 2009 AAN meeting (platform presentation)
 16. **Chabas D**, Ness J, Yeh E, Kuntz N, De Kouchkovsky I, Strober JB, Rodriguez M, Weinstock-Guttman B, Waubant E. Pediatric MS before puberty: a distinct CSF inflammatory profile. 2009 AAN meeting (platform presentation)
 17. Pediatric MS Collaborative Network: Model of Care of a Rare Disease, Yolanda Harris, MSN, CPNP-AC, Catherine Becker, RN, Paula Freitag, MS, LISW, David Rintell, EDD & Maria Milazzo, MS, CPNP for the Six Pediatric Centers of Excellence, 2008 NICHQ Meeting
 18. **Chabas D**, Mc Culloch C, Strober J, Ferreiro D, Waubant E. Ethnicity influences pediatric MS onset, Child Neurology Society meeting, 2008
 19. **Chabas D**, Castillo T, Mowry E, Waubant E. Vanishing MS T2-bright lesions before puberty: a distinct MRI phenotype? Child Neurology Society meeting, 2008
 20. Waubant E, **Chabas D**, Glenn O., Okuda D, Mowry E, Pelletier D. Pediatric patients with MS have a higher disease burden at disease onset than adults. American Neurological Association 2008
 21. Waubant E, Julian, L, Okuda D, Green A, **Chabas D**, Kornyeveva E, Bissonnette D, Mowry E, Peletier D. A phase II study of neuroprotective agent riluzole in early relapsing-remitting MS. ECTRIMS/ACTRIMS 2008
 22. Mowry E, Julian L, **Chabas D**, Strober J, Katz P, Waubant E. Health-related Quality of Life is Reduced in Children with Multiple Sclerosis. ECTRIMS/ACTRIMS 2008
 23. Julian L, Im-Wang S, **Chabas D**, Mowry E., Strober J., Waubant E. Learning and Memory in Pediatric Multiple Sclerosis. ECTRIMS/ACTRIMS 2008
 24. **Chabas D**, Glenn O, Strober J., Waubant E. Initial brain MRI presentation in pediatric MS patients from White non-Hispanic and other ethnic backgrounds. ECTRIMS/ACTRIMS 2008
 25. **Chabas D**, Mc Culloch C, Strober J, Ferreiro D, Waubant E. Age modifies MS phenotype at onset. ECTRIMS/ACTRIMS 2008

26. **Sub Committee of the NMSS pediatric MS network.** Pediatric Multiple Sclerosis: Developing Innovative Resources for an Underserved Population. 2008 Conference of the Society for Social Work Leadership in Health Care.
27. Castillo T, **Chabas D**, Mowry E, Waubant E. Vanishing MS T2-bright lesions before puberty: a distinct MRI phenotype? AAN 2008
28. **Chabas D**, Pesic M, McCulloch C, Erlich K, Strober J, Waubant E. Pediatric MS onset: a distinct phenotype influenced by ethnicity? AAN 2008
29. **Chabas D**, Pesic M, Waubant E. Influence of ethnicity on pediatric multiple sclerosis. ECTRIMS meeting, 2007
30. Belman A, **Chabas D**, Chitnis T, Gorman M, Krupp L, Kuntz N, McLinskey N, Ness J, Rodriguez M, waubant E, Weinstock-Guttman B, Yeh A. Clinical spectrum of diagnoses in children referred for acquired CNS demyelinating disorders including pediatric multiple sclerosis. Child Neurology Society meeting, 2007.
31. **Chabas D**, Strober J, Waubant E. Influence of ethnicity on pediatric MS. American Neurological Society meeting, 2007
32. Im-Wang S, Erlich K, Crittenden M, **Chabas D**, Strober J, Doyle M, Waubant E. Development of a Handbook for Parents of Children with Pediatric MS: a Psychologist's Focus on School Issues. Robert A. Fishman Professorship Symposium, UCSF Department of Neurology, 2007
33. Arnulf I., Foulon I., Gonzalez J., **Chabas D**. Eating disorder and metabolism in narcoleptic patients. American Academy of Neurology, 2007.
34. **Chabas D.**, Strober J., Erlich K., Im-Wang S., Crittenden M., Doyle M., Waubant E. The pediatric MS center experience at UCSF. American Academy of Neurology, 2007.
35. **Chabas D.**, Strober J., Green A., Waubant E. Familial neuromyelitis optica (NMO) with childhood onset. American Academy of Neurology, 2007.
36. **Chabas D.**, Strober J., Erlich K., Crittenden M., Doyle M., Waubant E. The pediatric MS experience at UCSF. Robert A. Fishman Professorship Symposium, UCSF Department of Neurology, 2006.
37. Kinugawa K, Arnulf I, Lyon-Caen O, **Chabas D**. Narcolepsy and multiple sclerosis: symptomatic narcolepsy or association? Journées neurologiques de langue française (Annual meeting of the French speaking Society of Neurology), 2004.
38. Weiss N, Demeret S, Bolgert F, Lubetzki C, Fontaine B, Pierrot Deseilligny C, Lyon-Caen O, **Chabas D**. Core Hypothermia as Relapses in Multiple Sclerosis. European Neurology Society, 2004.
39. **Chabas D**, Gonzalez J, Arnulf I, Nasr M, Foulon C, Derenne JP. Hormones, energy expenditure and feeding behavior in narcoleptic patients. Journées neurologiques de langue française (Annual meeting of the French speaking Society of Neurology), 2003.
40. Steinman L, Youssef S, Van Venrooij N, **Chabas D**, Baranzini DE, Rittling S, Denhardt D, Sobel RA, Lock C, Pedotti R, Oksenberg JR. Vaccination with DNA encoding osteopontin attenuates the animal model of multiple sclerosis. Journées neurologiques de langue française (Annual meeting of the French speaking Society of Neurology) 2003.
41. **Chabas D**, Gonzalez J, Arnulf I, Nasr I, Derenne JP. Hormones, energy expenditure and feeding behavior in narcoleptic patients. Société Française de recherche sur le sommeil (Annual meeting of the French Sleep Research Society) 2002.
42. **Chabas D**, Steinman L, Mitchell D, Rittling S, Sobel R, Lock C, Karpuj M, Pedotti R, Heller R, Oksenberg J, and Baranzini SE. Elevated Osteopontin Transcripts in MS Brain Libraries and Its Role in the Development of Progressive Versus Relapsing Autoimmune Encephalomyelitis. American Academy of Immunology, 2001.

43. **Chabas D**, Steinman L, Rittling S, Sobel R, Lock C, Karpuj M, Pedotti R, Heller R, Oksenberg J, and Baranzini SE. Elevated Osteopontin Transcripts in MS Brain Libraries and Its Role in the Development of Progressive Versus Relapsing Autoimmune Encephalomyelitis. American Academy of Neurology, 2001.
44. **Chabas D**, Baranzini SE, Mitchell D, Bernard CCA, Rittling SR, Denhardt DT, Sobel RA, Lock C, Karpuj M, Pedotti R, Heller R, Oksenberg JR, and Steinman L. Osteopontin Influences The Transition from Relapsing/Remitting to Progressive Autoimmune Demyelinating Disease. European Committee for Treatment and Research in Multiple Sclerosis, 2001.
45. **Chabas D**, Duprey B, Clément O, Lyon-Caen O, Liblau R. Type 1 and type 2 cytokine mRNA production in the blood and CSF of multiple sclerosis patients. Rendez-vous de l'ARSEP (Annual meeting of one of the two French National Multiple Sclerosis Societies), 1996.

Most important publications

1. **Chabas D**, Baranzini SE, Mitchell D, Bernard CCA, Rittling SR, Denhardt DT, Sobel RA, Lock C, Karpuj MV, Pedotti R, Heller R, J. R. Oksenberg, and L. Steinman. The Influence of Osteopontin On Autoimmune Demyelinating Disease. *Science*, 2001; 294: 1731-5.
2. Steinman L, Youssef S, Van Venrooij Y, **Chabas D**, Baranzini SE, Rittling S, Denhardt DT, Sobel RA, Lock C, Pedotti R, Oksenberg JR. Response to Comment on "The influence of the Proinflammatory Cytokine, Osteopontin, on Autoimmune Demyelinating Disease". *Science*. 2003 Mar 21; 299(5614): 1845.

These two publications are the main papers resulting from my post-doctoral fellowship in neuroimmunology at Stanford University from 1998 to 2001. We discovered that osteopontin, a bone protein, was in fact a main pro-inflammatory molecule involved in MS and its animal model. This work was based on large scale transcriptional analyses of human and mouse samples, which at that time was technically innovative, and confirmed using several other technical platforms (osteopontin KO animal model, immunohistochemistry, immunology). This was a grounding discovery in the field of MS at that time, leading to potential therapeutic targets for MS. It also led to a patent that I co-own with Dr Steinman, the PI. Finally, this was a collaborative work with UCSF researchers Jorge Oksenberg and Sergio Baranzini, which became my colleagues at UCSF.

3. **Chabas D**, Foulon C, Gonzalez J, Nasr M, Lyon-Caen O, Willer JC, Derenne JP, Arnulf I. Eating disorder and metabolism in narcoleptic patients. *Sleep*. 2007 Oct 1;30(10):1267-73.

When I was a post doctoral fellow, I collaborated with Dr Mignot from Stanford University on the autoimmune hypothesis of narcolepsy, a sleep disease that is strongly associated with HLA, like MS. I developed a model of mice immunized with hypocretin, the potential auto-antigen, based on the animal model of MS. These mice got fat and hypometabolic. This work has not been published yet, but when I came back to France in 2001 for my clinical fellowship, I initiated a study in human narcoleptic patients, to translate my findings into the human disease. This paper is the result of this study. We showed that overweighted narcoleptic patients have an eating disorder resembling bulimia/anorexia nervosa, besides being hypometabolic. This was original data, and has potential clinical consequences. Other authors repeated our findings since then.

4. Krupp LB, Banwell B, Tenenbaum S; **International Pediatric MS Study Group**. Consensus definitions proposed for pediatric multiple sclerosis and related disorders. *Neurology*. 2007 Apr

17;68(16 Suppl 2):S7-12. Review.

5. **Chabas D**, Castillo T, Mowry E, Waubant E. Vanishing MS T2-bright lesions before puberty: a distinct MRI phenotype? *Neurology*, 2008 Sep 30;71(14):1090-3.
6. **Chabas D**, Ness J, Belman A, Yeh E, Kuntz N, Gorman M, Strober J, De Kouchkovsky I, McCulloch C, Chitnis T, Rodriguez M, Weinstock-Guttman B, Krupp L, Waubant E, and the US Network of Pediatric MS Centers of Excellence. Pediatric MS before puberty: a distinct CSF inflammatory profile (in Press in *Neurology*)

At UCSF, I focused on pediatric MS. The Neurology paper #4 is a grounding review paper, published by the international task force on pediatric MS -in which I have participated since 2005-, and proposes original consensual operational definitions of pediatric MS and related disorders. This has allowed the international community to speak with the same voice and use similar criteria to report findings regarding these rare diseases. The Neurology paper #5 is the first original research article from the UCSF pediatric MS center, using these criteria to describe the influence of age on pediatric MRI phenotype. It shows that prepubertal patients have distinct MRI features, potentially misleading the diagnosis and raising questions regarding the nature of MS lesions near the biological origin of the disease. The Neurology paper #6 parallels the paper #4 on a biological level. It shows that prepubertal pediatric MS patients also have a distinct CSF profile at disease onset, suggesting the implication of the innate rather than the acquired immune system near the biological origin. This is also the first national network pediatric MS paper, since I gathered data from the six NMSS awarded centers throughout the country, and made it a collaborative effort. Both papers #5 and #6 have research and clinical implications (improve earlier diagnosis) and challenge the current operational definitions (paper #4).

Books

1. **Chabas D**, Waubant E. Demyelinating Disorders of the Central Nervous System in Childhood. Cambridge University Press, Mar 17, 2011 -292 pages. Cambridge University Press. A textbook on pediatric MS, the first of its kind on this topic. This is an international collaborative project.
2. Im-Wang S, Erlich K, Chabas D, Crittenden M, Doyle M, Julian L, Strober J, Waubant E. Pediatric Multiple Sclerosis. Handbook for Parents With a Focus on School Issues. 109pages
3. **Chabas D**, Cournu-Rebeix I and Fontaine B. Central and peripheral nervous system. In: Immunogenetics of autoimmune diseases. Editor: Jorge Oksenberg.
- 4.

PATENT

Osteopontin: a potential therapeutic target for treating multiple sclerosis, and a molecule predicting the evolution of MS. Stanford University, USA - Office of Technology Licensing. Stanford Docket No: S01-085. Inventors: **Dorothee Chabas** and Lawrence Steinman.