

CURRICULUM VITAE

PERSONAL INFORMATION

Name Luca Massacesi
Address Department of Neurological and Psychiatric Sciences,
Careggi University Hospital - University of Florence,
Viale Morgagni 85, 50134 Florence, Italy.
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Nationality italian
Date of birth 30.11.1954

EXPERTISE

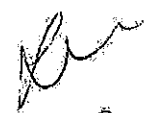
- Principal areas of expertise Clinical neurology, clinical immunology, inflammatory disease of the nervous system, imaging of the nervous system

WORK EXPERIENCE

- Dates (from – to) 1984-1990
 - Name and address of employer University of Florence, Florence, Italy
 - Type of business or sector Dept. of Neurology
 - Occupation or position held National Research Council, research fellow
 - Main activities and responsibilities Research
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- Dates (from – to) 1988-1991
 - Name and address of employer Massachusetts General Hospital, Harvard University, Boston, Ma, USA
 - Type of business or sector Neuroimmunology Unit, Dept. of Neurology
 - Occupation or position held postdoctoral fellow.
 - Main activities and responsibilities research
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- Dates (from – to) 1991-1995
 - Name and address of employer Careggi University Hospital, Florence, Italy
 - Type of business or sector Dept. of Neurology



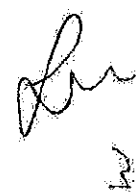
- Occupation or position held Staff neurologist
- Main activities and responsibilities Patients clinical care
- Dates (from – to) 1995-2001
- Name and address of employer Florence University, Florence, Italy
- Type of business or sector Dept. of Neurology
- Occupation or position held Assistant Professor of Neurology
- Main activities and responsibilities Research and patient clinical care
- Dates (from – to) 2001-2005
- Name and address of employer Florence University, Florence, Italy
- Type of business or sector Dept. of Neurology
- Occupation or position held Associated Professor in Neurology
- Main activities and responsibilities Teaching, Research, patient clinical care
- Dates (from – to) 2005-today
- Name and address of employer Florence University, Florence, Italy
- Type of business or sector Dept. of Neurology
- Occupation or position held Full Professor of Neurology
- Main activities and responsibilities Teaching, Research, patient clinical care
- Dates (from – to) 2005-today
- Name and address of employer Careggi University Hospital-University of Florence, Florence, Italy, Dept. of Neurosciences
- Type of business or sector 11nd Neurology Division,
- Occupation or position held Chief
- Main activities and responsibilities Teaching, Research, patient clinical care, clinical management
- Dates (from – to) 2008-2013
- Name and address of employer Florence University, Florence, Italy
- Type of business or sector PHD Program in Neurosciences
- Occupation or position held Coordinator
- Main activities and responsibilities Research organization, teaching
- Dates (from – to) 2008-2013
- Name and address of employer Florence University, Florence, Italy
- Type of business or sector Resident Program in Neurophysiopathology
- Occupation or position held Director


2

- Main activities and responsibilities Teaching and tutoring residents, patient clinical care, management
 - Dates (from – to) 2009-2010
 - Name and address of employer National Institute of Health, Bethesda, MD, USA
 - Type of business or sector NINDS, Neuroimmunology Branch
 - Occupation or position held Adjunct Scientist
 - Main activities and responsibilities research
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- Dates (from – to) 2010-today
 - Name and address of employer National Institute of Health, Bethesda, MD, USA
 - Type of business or sector NINDS, Neuroimmunology Branch
 - Occupation or position held Visiting Scientist
 - Main activities and responsibilities research
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- Dates (from – to) 2012-today
 - Name and address of employer Careggi University Hospital-University of Florence, Florence, Italy
 - Type of business or sector Dept. of Neurosciences
 - Occupation or position held Director
 - Main activities and responsibilities Management of clinical and research activities

EDUCATION AND TRAINING

- Dates (from – to) 1975-1982
 - Name and type of organization providing education and training University of Florence
 - Principal subjects/occupational skills covered School of Medicine and Surgery
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- Title of qualification awarded Medical degree
 - Level in national classification 110/110 cum laude
 - Dates (from – to) 1982-1986
 - Name and type of organization providing education and training University of Florence
 - Principal subjects/occupational skills covered Resident program in Clinical Neurology
 - Title of qualification awarded Specialization in Neurology
 - Level in national classification 70/70 cum laude



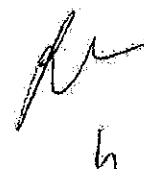
- Dates (from – to) 1986-1990
 - Name and type of organization providing education and training University of Florence
 - Principal subjects/occupational skills covered Resident program in Clinical Immunology
 - Title of qualification awarded Specialization in Clinical Immunology
 - Level in national classification 70/70 cum laude
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- Dates (from – to) 1982
 - Name and address of employer Stanford University, Palo Alto, Ca, USA.,
 - Type of business or sector Neurology Department, Laboratory of Neurochemistry
 - Occupation or position held *visiting fellow*
 - Main activities and responsibilities research
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- Dates (from – to) 1985
 - Name and address of employer National Institute of Health, Bethesda, Ma, USA
 - Type of business or sector NINDS, Neuroimmunology Branch
 - Occupation or position held *visiting fellow*
 - Main activities and responsibilities research

ADDITIONAL INFORMATION

- Dates (from – to) 1994-1997, ORGANIZATION AND COORDINATION OF RESEARCH GROUPS.
project leader of the international project entitled "Concerted Action on T-cell Autoimmunity in Multiple Sclerosis" funded by the R&D program of the del General Directorate XII of the European Union Commission.
- 1997-1999 coordinator of the Italian multicentric project funded by the Associazione Italiana Sclerosi Multipla (AISM) entitled "Centralized Facility per genetic studies in Multiple Sclerosis".
- 1998-2001 scientific coordinator of the study entitled "Open randomized clinical study on different doses of β IFN1 α , also in association with Azathioprine, in patients with relapsing remitting multiple sclerosis".
- 2006-2011 coordinator of the multicentric Randomized Controlled Trial funded by the Italian Drug Agency (AIFA) "Randomized controlled study of Azathioprine versus Interferon beta in relapsing-remitting multiple sclerosis".

FURTHER SCIENTIFIC ACTIVITIES

- 1993-today - Italian Multiple Sclerosis Society (AISM); member of the Scientific Committee and of the Research Evaluation Committee.



- 1994-1997 - "Concerted Action on T-cell Autoimmunity in Multiple Sclerosis" R&D program of the def DG XII EU Commission, Project Leader.
- 1999-2000 - International Federation of Multiple Sclerosis Societies Scientific Program Committee; member of the Medical Advisory Board.
- 1995-2001 - Biomedical Primate Research EU Large Scale Facility, Rijswijk, The Nederland; member of the Scientific Committee.
- 2009-today - European Medicines Agency (EMA), London, UK; Scientific Advisory Group – Neurology, member.
- 2009-today - Italian Medicines Agency (AIFA), Rome, Italy; Scientific Advisory Group on Neurology, member.
- 2010-2012 - National Institutes of Health, Bethesda MD, USA. Data and Safety monitoring board (DSMB) of the phase II intramural clinical study: *Investigating mechanism of action of DAC HYP (Daclizumab) in the treatment of high inflammatory multiple sclerosis*: Chairman

CURRENT TEACHING ACTIVITY AT FLORENCE UNIVERSITY

- 2002-2009, School of Medicine: Clinical Neurology;
- 2005-2009, School of Dentistry: Clinical Neurology;
- 2005-2009, School of Nursing: Clinical Neurology;
- 2005-2009, Faculty of Expmntl. Psychology: Clinical Neurology;
- 2005-2009, Resident Program in Neurology: Clinical Neurology;
- 2005-2009, Resident Program in Neurophysiopath.: Clinical Neurology;
- 2009-today, Resident Program in Emergency Medicine: Clinical Neurology;
- 1991-today, School of Medicine, mentor of 25 Thesis dissertations;
- 1995-today, PhD program in Neurosciences, Supervisor of 10 PhD dissertations.

AFFILIATIONS TO SCIENTIFIC SOCIETIES

- Società Italiana di Neurologia.
- European Federation of Neurological Societies
- Associazione Italiana di Neuroimmunologia.
- International Society of Neuroimmunology.
- Società Italiana di Immunologia.

REVIEWER FOR

Journal of Neuroimmunology,
Journal Clinical Neurology and Neurosurgery,
Journal of Immunology,
Neurological Sciences,
Intl. MS journal,
Italian Multiple Sclerosis Society,
Dutch Multiple Sclerosis Society,
Singapore Medical Research Council

PLOS Medicine
PLOS Pathology
Italian Ministry of University and Research

Multiple Sclerosis International, member of the editorial board



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ANNEXES PUBLICATIONS

Publications on International Journal quoted in "PubMed" web site, National Library of Medicine (USA).

- Raimondi L., Banchelli Soldaini G., Buffoni F., Ignesti G., **Massacesi L.**, Amaducci L. and Friedmann C.A. (1982). Rhein and derivatives. In vitro studies on their capacity to inhibit certain proteases. *Pharmacol. Res. Comm.*, 14(2): 103-112.
- Smith M.E., Somera F.P., Saldivar R., **Massacesi L.** and Trotter J. (1984). DNA changes in spinal cords of rats with experimental allergic encephalomyelitis. *J. Neurochem.*, 43: 1635-1641.
- **Massacesi L.**, Abbamondi A.L., Giorgi C., et al. (1987). Suppression of experimental allergic encephalomyelitis by retinoic acid. *J. Neurol. Sciences*, 80:55-64.
- **Massacesi L.**, Abbamondi A.L., Raimondi L. et al. (1988). Lysosomal enzymes in experimental allergic encephalomyelitis: time course and evidence of the source. *Neurochem. Res.*, 13:165-169.
- **Massacesi L.**, Castigli E., Vergelli M., et al. (1991). Immunosuppressive activity of 13-cis retinoic acid and prevention of experimental autoimmune encephalomyelitis in rats. *J. Clin. Invest.*, 88:1331-1337.
- Riskind P., **Massacesi L.** and Hauser S.L. (1991). The role of prolactin in autoimmune demyelination: suppression of experimental allergic encephalomyelitis by bromocriptine. *Ann. Neurol.*, 29: 542-547.
- **Massacesi L.**, Parritz D., Joshi N., Letvin N. and Hauser S.L. (1992). Experimental allergic encephalomyelitis in Cynomolgus Monkeys: quantitation of T-cell responses in peripheral blood. *J. Clin. Invest.*, 90: 399-404.
- Salvetti M. and **Massacesi L.** (1992). Experimental allergic encephalomyelitis and multiple sclerosis: immunoregulatory mechanisms and T cell repertoires. *Cell. Immunol.*, 142: 217-219.
- Salvetti M., Buttinelli O., **Massacesi L.** and Wekerle H. (1993). New approaches to the study of T-cell autoimmunity in multiple sclerosis. *J. Neuroimmunol.*, 47: 203-205.
- Yu J.S., Pandey J. P., **Massacesi L.** et al. (1993). Segregation of Immunoglobulin heavy Chain constant region genes in Multiple sclerosis sibling pairs. *J. Neuroimmunol.*, 42: 113-116.
- Lolli F., Liuzzi G.M., Vergelli M., **Massacesi L.** et al. (1993). Antibodies specific for the lipid-bound form of MBP during experimental autoimmune encephalomyelitis. *J. Neuroimmunol.*, 44: 69-75.
- **Massacesi L.**, Vergelli M., Zehetbauer B., et al. (1993). Induction of experimental autoimmune encephalomyelitis in rats and immune response to myelin basic protein in lipid bound form. *J. Neurol. Sciences*, 119: 91-98.
- Da Vico S., **Massacesi L.**, Amaducci L. (1993). Survey of the Italian neurological output in the three years 1989-1991. *Il J. Neurol. Sci.*, 14: 595-598.
- Genain C.P., Parritz D., Hoa Nguyen M., **Massacesi L.** et al. (1994). In healthy primates, circulating autoreactive T-cells mediate autoimmune disease. *J. Clin. Invest.*, 94: 1339-1345.
- Vergelli M., Mazzanti B., Ballerini C., Gran B., Amaducci L. and **Massacesi L.** (1995). Transforming growth factor-beta1 inhibits the proliferation of rat astrocytes induced by serum and growth factors. *J. Neurosci. Res.*, 40: 127-133.
- **Massacesi L.**, Genain C.P., Parritz D.L. et al. (1995). Active and passively induced experimental autoimmune encephalomyelitis in common marmosets: a new model for multiple sclerosis. *Ann. Neurol.*, 37: 519-530.
- Hohlfeld R., Londei M., **Massacesi L.** and Salvetti M. (1995). T-cell autoimmunity in multiple sclerosis. *Immunology Today (ora Trends in Immunology)*, 16:259-261.
- Vergelli M., Olivetto J., Castigli E., Gran B., Raimondi L., Pirisino R., Amaducci L. and **Massacesi L.** (1997). Immunosuppressive activity of 13-cis-retinoic acid in rats: Aspects of pharmacokinetics and pharmacodynamics. *Immunopharmacol.*, 37: 191-197.
- Mazzanti B., M. Vergelli, P. Riccio, R. Martin, H.F. McFarland, G.M. Liuzzi, L. Amaducci and **Massacesi L.** (1998). T-cell response to Myelin Basic Protein in patients with Multiple Sclerosis and healthy donors. *J. Neuroimmunol.*, 82: 96-100.
- Gran B., Gestri D., Sottini A., Quirós Roldán E., Bettinardi A., Signorini S., Primi D., Ballerini C., Taiuti R., Amaducci L. and **Massacesi L.** (1998). Detection of skewed T-cell receptor V-beta gene usage in the peripheral blood of patients with multiple sclerosis. *J. Neuroimmunol.*, 85: 22-32.
- Cascino I., Ballerini C., Audino S., Rombola G., **Massacesi L.**, Colombo G., Scorza Smeraldi R., D'Alfonso S., Momigliano Richiardi P., Tosì R., Ruberti G. (1998). Fas Gene Polymorphisms are not associated with Systemic Lupus Erythematosus, Multiple Sclerosis and HIV Infection. *Disease Markers*, 13: 221-225.
- Laman J.D., van Meurs M., Scheilekens M.M., de Boer M., Melchers B., **Massacesi L.**, Lassmann H., Klaassen E., Hart B. (1998). Expression of accessory molecules and cytokines in acute EAE in marmoset monkeys (*Callithrix jacchus*). *J. Neuroimmunol.*, 86: 30-45

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- **European Study Group on Interferon beta-1b in secondary Progressive MS** (1998). Placebo-controlled multicentre randomised trial of Interferon beta-1b in treatment of secondary progressive multiple sclerosis. *Lancet*, 352: 1491-97.
- Mazzucco S., Nardi E., Chelli M., Ginanneschi M., Rapi G., Papini A.M., Vergelli M., Mazzanti B., Massacesi L., Amaducci L. (1999). Synthesis of lipopeptides of the immunodominant epitope hMBP(83-99) containing amide or C-C bond linked hydrophobic chains for the study of T cell response. *Letters in Peptide Sciences* 6: 51-59.
- Mazzucco S., Matà S., Vergelli M., Fioretti R., Nardi E., Mazzanti B., Chelli M., Lolli F., Ginanneschi M., Pinto F., Massacesi L. and Papini A.M. (1999). A synthetic glycopeptide of human myelin oligodendrocyte glycoprotein to defeat antibody responses in multiple sclerosis and other neurological diseases. *Bioorg. Med. Chem. Lett.* : 167-172.
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- D'Alfonso S., Nisticò L., Zavattari P., Marrosu M., Murru R., Lai M., Massacesi L., Ballerini C., Gestri D., Salvetti M., Ristori G., Bomprezzi R., Trojano M., Liguori M., Gambi D., Quattrone A., Fruci D., Cucca F., Momigliano-Richiardi P. and Tosi R. (1999). A linkage analysis of Multiple Sclerosis with candidate region markers in Sardinian and Continental Italian families. *Eur. J. Hum. Gen.* 7: 377-385.
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- t'Hart B.A., van Meurs M., Brok H.P.M., Massacesi L., Bauer J., Boon L., Bontrop R.E. and Laman J.D. (2000). A new primate model for multiple sclerosis in the common marmoset. *Immunology Today (ora Trends in Immunology)*, 21: 290-297.
- Pupi A., Sestini S., De Cristofaro M.T., Emimi L., Marchione T., Salvati G., Li Gobbi F., Massacesi L., Meldolesi U. (2000). Use of technetium-99mhexamethylpropyleneamine oxime single-photon emission tomography for the study of cerebral blood flow reactivity after acetazolamide infusion in patients with Behcet's disease. *Eur. J. Nucl. Med.* 27(6): 700-706.
- D'Alfonso S., Nisticò L., Bocchio D., Bomprezzi R., Marrosu M.G., Murru M.R., Lai M., Massacesi L., Ballerini C., Repice A., Salvetti M., Montesperelli C., Ristori G., Trojano M., Liguori M., Gambi D., Quattrone A., Tosi R., Momigliano-Richiardi P. (2000). An attempt of identifying MS-associated loci as a follow-up of a genomic linkage study in the Italian population. *J. Neurovirol.* 6 (S 2):18-22.
- Molyneux P.D., Kappos L., Polman C., Pozzilli C., Barkhof F., Filippi M., Yousry T., Hahn D., Wagner K., Ghazi M., Beckmann K., Dalhke F., Losseff N., Barker G.J., Thompson A.J., Miller D.H. and the **European Study Group on Interferon beta-1b in Secondary Progressive Multiple Sclerosis** (2000). The effect of interferon beta-1b treatment on MRI measures of cerebral atrophy in secondary progressive multiple Sclerosis. *Brain* 123: 2256-2263.
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- Chiarugi A., Còzzi A., Ballerini C., Massacesi L. and Moroni F. (2001). Kynurenine 3-monooxygenase activity and neurotoxic kynurenine metabolites increase in the spinal cord of rats with experimental allergic encephalomyelitis. *Neuroscience* 102: 687 - 695.
- Mancardi G., t'Hart B., Roccatagliata L., Brok H., Giunti D., Bontrop R., Massacesi L., Capello E. and Uccelli A. (2001.) Demyelination and axonal damage in a non-human primate model of multiple sclerosis. *J. Neurol. Sciences* 184: 41-49.
- Gestri D., Baldacci L., Taiuti R., Galli E., Maggi E., Piccinini M.P., Vergelli M. and Massacesi L. (2001). Oligoclonal T-cell repertoire in cerebrospinal fluid of patients with nervous system inflammatory diseases. *J. Neurol. Neurosurg. Psych.* 70: 767- 772.

- Broadley S., Sawcer S., D'Alfonso S., Henseik A., Coraddu F., Gray J., Roxburgh R., Clayton D., Buffinelli C., Quattrone A., Trojano M., Momigliano Richiardi P., **Massacesi L.** and Compston A. (2001). A genome screen for multiple sclerosis in Italian families. *Genes Immun.* 2: 205-10.
- Mancardi G.L., Saccardi R., Filippi M., Gualandi F., Muriáldo A., Inglese M., Marrosu M.G., Meucci G., **Massacesi L.**, Lugaresi A., Pagliai F., Sormani M.P., Sardanelli F., Marmont A. and the Italian Gltmo-Neuro Intergroup on Autologous Hematopoietic Stem Cell Transplantation for Multiple Sclerosis (2001). Autologous hematopoietic stem cell transplantation suppresses Gadolinium-enhanced MRI activity in multiple sclerosis. *Neurology* 57:62-68.
- Papini A.M., Mazzanti B., Nardi E., Traggiai E., Ballerini C., Biagioli T., Kalbacher H., Beck H., Deeg M., Chelli M., Ginanneschi M., **Massacesi L.**, Vergelli M. (2001). Palmitoyl Derivatives of GpMBP Epitopes: T-Cell Response and Peptidases Susceptibility. *J. Med. Chem.* 44: 3504- 3510.
- Soldan S. S., Fogdell-Hahn A., Brennan M. B., Mittleman B. B., Ballerini C., **Massacesi L.**, Seya T., McFarland H. F. and Jacobson S. (2001). Elevated serum and CSF levels of soluble HHV-6 cellular receptor, membrane cofactor protein (MCP; CD46), in patients with multiple sclerosis. *Ann. Neurol.* 50: 486-93.
- Vergelli M., B. Mazzanti, E. Traggiai, T. Biagioli, C. Ballerini, A Parigi, G. Pellicano, A. Konze, L. **Massacesi** (2001). Short-term evolution of autoreactive T-cell repertoire in multiple sclerosis. *J. Neurosci Res.* 66:517-24.
- Traggiai E., Biagioli T., Rosati E., Ballerini C., Mazzanti B., Ben Nun A., **Massacesi L.**, Vergelli M. (2001). IL-7-enhanced T-cell response to myelin proteins in multiple sclerosis. *J. Neuroimmunol.* 121:111-9.
- Kappos L., Polman C., Pozzilli C., Thompson A., Beckmann K., Dalhke F., and the **European Study Group on Interferon beta-1b in Secondary Progressive Multiple Sclerosis** (2001). Final analysis of the European multicenter trial on IFNbeta-1b secondary progressive Multiple Sclerosis. *Neurology* 57: 1969-1976.
- Freeman J., Thompson A., Fitzpatrick R., Hutchinson M., Miltenburger C., Beckmann K., Kappos L., Dalhke F., Polman C., Pozzilli C., and the **European Study Group on Interferon beta-1b in Secondary Progressive Multiple Sclerosis** (2001). IFNbeta-1b in the treatment of secondary progressive Multiple Sclerosis: Impact on quality of life. *Neurology* 57: 1870-1875.
- Molyneux PD, Barker GJ, Barkhof F, Beckmann K, Dalhke F, Filippi M, Ghazi M, Hahn D, MacManus D, Polman C, Pozzilli C, Kappos L, Thompson AJ, Wagner K, Yousry T, Miller DH; **European Study Group on Interferon Beta-1b in Secondary Progressive MS** (2001). Clinical-MRI correlations in a European trial of interferon beta-1b in secondary progressive MS. *Neurology* 57: 2191-7.
- D'Alfonso S., Mellai M., Giordano M., Pastore A., Malferran G., Naldi P., Repice A., Liguori M., Cannoni S., Milanese C., Caputo D., Savettieri G., Momigliano-Richiardi P., and the **Italian Group for the Study of Multiple Sclerosis Genetics** (2002). Identification of single nucleotide variations in the coding and regulatory regions of the myelin-associated glycoprotein gene (MAG) and study of their association with multiple sclerosis. *J. Neuroimmunol.* 126 : 196-204.
- Muraro, P.A., Bonanni, L., Mazzanti B., Pantalone, A., Traggiai, E., **Massacesi L.**, Vergelli, M., Gambi, D. (2002). Short-term dynamics of circulating T-cell receptor V beta repertoire in relapsing-remitting MS. *J. Neuroimmunol.* 127: 149-59.
- **Massacesi L.** (2002). Compartmentalization of the immune response in the central nervous system and natural history of multiple sclerosis. Implications for therapy. *Clin Neurol Neurosurg* 104: 177-81.
- Ballerini C., Rosati E., Salvetti M., Ristori G., Cannoni S., Biagioli T., **Massacesi L.**, Sorbi S., Vergelli M (2002). PTPRC exon 4 gene mutation distribution in a Italian MS population. *Neuroscience Letters* 328: 325-7.
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- Sormani MP, Bruzzi P, Beckmann K, Wagner K, Miller DH, Kappos L, Filippi M; **European Study Group on Interferon Beta-1b in Secondary Progressive MS** (2003). MRI metrics as surrogate endpoints for EDSS progression in SPMS patients treated with IFN beta-1b. *Neurology* 60:1462-6.

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11

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12