

CURRICULUM VITAE

Maria E. Alexianu, MD., Ph.D.

Address: Clinical Assistant Professor
Department of Neurology
NYU School of Medicine
550 First Ave
New York, NY 10016

Office: 33 Overlook Road
Suite 401
Summit, NJ 07901

Phone: (908) 728-0050
Fax: (908) 728-0051

E-mail: maria.alexianu@med.nyu.edu, alexianu@gmail.com

Web page: <http://www.wagner.edu/faculty/users/ionescu/maria/>

Citizenship United States

Medical License New Jersey, New York

Board Certification American Board of Psychiatry and Neurology
American Board of Electrodiagnostic Medicine

Clinical Interests General Neurology, Neuromuscular diseases, EMG

WORK EXPERIENCE

2004 –present *Clinical Assistant Professor*
Department of Neurology
NYU School of Medicine
550 First Ave
New York, NY 10016

2003–2004 *Clinical Neurophysiology Fellow*
The Neurological Institute
Columbia Presbyterian Medical Center
New York, New York

2000–2003 *Neurology Resident, Chief Resident 2002-2003*
Department of Neurology
NYU Medical School
New York, New York

1999–2000	<i>Medical intern</i> Shadyside Hospital University of Pittsburgh Pittsburgh, Pennsylvania
1996–1999	<i>Assistant Professor</i> Department of Neurology Baylor College of Medicine Houston, Texas
1994–1996	<i>Research Instructor</i> Department of Neurology Baylor College of Medicine Houston, Texas
1992–1994	<i>Postdoctoral fellow</i> Department of Neurology Baylor College of Medicine Houston, Texas
1991–1992	<i>Postdoctoral fellow</i> Institute of Neuropathology Aachen, Germany
1990–1991	<i>Resident in Neurology</i> Clinic of Neurology, Hospital "Gh.Marinescu" Bucharest, Romania

EDUCATION

USMLE Step 3	February 2000
USMLE Step 2	March 1998
USMLE Step 1	October 1997
Ph.D.	Romanian Academy of Medical Sciences, Bucharest, October 1995
MD.	University of Medicine and Pharmacy, Bucharest, September 1989

HONORS AND AWARDS

1991–1992	Fellowship of the German Academy Exchange Program Institute of Neuropathology, Technical University, Aachen.
-----------	---

PROFESSIONAL SOCIETIES

1999–present	American Academy of Neurology
--------------	-------------------------------

1994–present	Society for Neuroscience
1994–present	New York Academy of Sciences
1994–present	American Association for Advancement in Science
1989–present	Romanian Society of Neurology

POSTDOCTORAL TRAINING

- 2003 Summer School of Myology, Institute of Myology, Salpetriere Hospital, Paris, FR
 1993 Neurobiology of disease workshop, Society for Neuroscience, Washington, D.C.
 1991 German Language Course at Goethe Institute, Freiburg, Germany

Languages: English, French, German, Romanian

PUBLICATIONS (peer reviewed papers)

1. Mohamed HA, Mosier DR, Zou LL, Siklos L, **Alexianu ME**, Engelhardt JI, Beers DR, Le WD, Appel SH. [Immunoglobulin Fc gamma receptor promotes immunoglobulin uptake, immunoglobulin-mediated calcium increase, and neurotransmitter release in motor neurons](#). J Neurosci Res. 2002 Jul 1;69(1):110-6.
2. Beers DR, Ho BK, Siklos L, **Alexianu ME**, Mosier DR, Mohamed AH, Otsuka Y, Kozovska ME, McAlhany RE, Smith RG, Appel SH. [Parvalbumin overexpression alters immune-mediated increases in intracellular calcium, and delays disease onset in a transgenic model of familial amyotrophic lateral sclerosis](#). J Neurochem. Nov;79(3):499-509, 2001.
3. **Alexianu ME**, Kozovska M, Appel SH. [Immune reactivity in a mouse model of familial ALS correlates with disease progression](#). Neurology, 9;57(7):1282-9, 2001.
4. **Alexianu ME**, Manole E, Engelhardt JI, Appel SH. [Ultrastructural evidence of calcium involvement in experimental autoimmune gray matter disease](#). J Neurosci Res 60(1): 98-105, 2001.
5. Kozovska M, **Alexianu ME**, Otsuka Y, Zhou LL, Mohamed AH, Szweda LI, Appel SH. *Age-related changes in the immune response within the CNS after peripheral axotomy*. Soc Neurosci (1999).
6. Chen S, Le WD, Xie WJ, **Alexianu ME**, Engelhardt JI, Siklos L, Appel SH [Experimental destruction of substantia nigra initiated by Parkinson disease immunoglobulins](#). Arch Neurol 55, 1075-1080, 1998.
7. Siklos L, Engelhardt JI, **Alexianu ME**, Gurney ME, Siddique T, Appel SH. [Intracellular calcium parallels motoneuron degeneration in SOD-1 mutant mice](#). J Neuropathol Exp Neurol 57: 571-587, 1998.

8. **Alexianu ME**, Robbins E, Carswell S, and Appel SH. [1a, 25 Dihydroxyvitamin D3-dependent up-regulation of calcium-binding proteins in motoneuron cells.](#) J Neurosci Res, 51: 58-66, 1998.
9. Colom LV, **Alexianu ME**, Mosier DR, Smith RG, and Appel SH. [Amyotrophic lateral sclerosis immunoglobulins increase intracellular calcium in a motoneuron cell line.](#) Exp Neurol, 146: 354-360, 1997.
10. Ho BK, **Alexianu ME**, Colom LV, Mohamed AH, Serrano F, and Appel SH. [Expression of calbindin-D28K in motoneuron hybrid cells after retroviral infection with calbindin-D28K cDNA prevents amyotrophic lateral sclerosis IgG-mediated cytotoxicity.](#) Proc Natl Acad Sci (USA) 93(13): 6796-801, 1996.
11. LaBella V, **Alexianu ME**, Colom LV, Ionescu A, Mohamed AH, and Appel SH. [Apoptosis induced by beta-N-oxalylamino-L-alanine on a motoneuron hybrid cell line.](#) Neuroscience, 70, 4: 1039-1052, 1996.
12. **Alexianu, ME**. *In vivo models of motoneuron degeneration.* Update 1996. Rom J Neurol 34(1-2): 11-21, 1996.
13. Smith RG, Siklos L, **Alexianu, ME**, Engelhardt JL, Mosier DR, Colom L, Mohamed AH, and Appel SH. [Autoimmunity and ALS.](#) Neurol., 47: S40-S46, 1996.
14. Appel, S.H., Smith, R.G., **Alexianu, M.E.**, Siklos, L., Engelhardt, J., Colom, L.V., and Stefani, E. [Increased intracellular calcium triggered by immune mechanisms in amyotrophic lateral sclerosis.](#) Clin. Neurosci. 3(6): 368-374, 1996.
15. **Alexianu ME**. [The role of immune processes in amyotrophic lateral sclerosis pathogenesis.](#) Rom J Neurol Psychiatry. 33(3-4): 215-27, 1995.
16. Appel SH, Smith RG, **Alexianu ME**, Engelhardt JI, and Stefani E. [Autoimmunity as an etiological factor in sporadic amyotrophic lateral sclerosis.](#) Advances in Neurology. 68: 47-57, 1995.
17. Alexianu M, Macovei M, **Alexianu ME**, Safirescu S, Dan A, Manole E, and Burghilea B. [Tomaculous neuropathy with unusual clinical aspects.](#) Rom J Neurol Psychiatry. 33(3-4): 229-35, 1995.
18. Le W-D, Colom LV, Xje W-J, Smith RG, **Alexianu ME**, and Appel SH. [Cell death induced by beta-amyloid 1-40 in MES 23.5 hybrid clone: the role of nitric oxide and NMDA-gated channel activation leading to apoptosis.](#) Brain Res 686: 49-40, 1995.
19. **Alexianu ME**, Mohamed AH, Smith RG, Colom LV, and Appel SH. [Apoptotic cell death in a motoneuron hybrid cell line induced by immunoglobulins from patients with amyotrophic lateral sclerosis.](#) J Neurochem, 63: 2365-2368, 1994.
20. **Alexianu ME**, Ho BK, Mohamed AH, La Bella V, Smith RG, and Appel SH. [The role of calcium-binding proteins in selective motoneuron vulnerability in amyotrophic lateral sclerosis.](#) Annals of Neurology. 36(6): 846-58, 1994.

21. Smith RG, **Alexianu ME**, Crawford G, Nyormoi O, and Appel SH. [*Amyotrophic lateral sclerosis immunoglobulins increase Ca²⁺ currents in a motoneuron cell line*](#). Proc Natl Acad Sci (USA) 91: 3393-97, 1994.
22. Appel SH, Smith RG, **Alexianu ME**, Engelhardt JI, Mosier D, Colom LV, and Stefani E. [*Neurodegenerative disease: autoimmunity involving calcium channels*](#). Ann NY Acad Sci, 747: 183-195, 1994.
23. Mosier DR, Baldelli P, Delbono O, Smith RG, **Alexianu ME**, Appel SH, and Stefani E. [*Immunoglobulins from patients with amyotrophic lateral sclerosis increase calcium current in a hybrid motoneuron cell line*](#). Ann Neurol 37: 102-109, 1995.
24. Macovei M, Alexianu M, Vasilescu C, **Alexianu ME**, Dan A, and Burghilea B. [*Charcot-Marie-Tooth syndrome associated with cerebello-extrapiramidal manifestations in a patient with tomaculous neuropathy*](#). Ital J Neurol Sci, 14: 584, 1993.
25. Weis J., **Alexianu ME**, Heide G, and Schroder JM. [*Renaut bodies contain elastic fibers components*](#). J Neuropathol Exp Neurol 52: 444-451, 1993.
26. Macovei M, Alexianu M, Vasilescu C, **Alexianu ME**, Dan A, and Burghilea B. [*Chronic sensorimotor polyneuropathy associated with cerebello-extrapiramidal manifestations in a patient with tomaculous neuropathy*](#). Rev Roum Med-Neurol Psychiat, 31, 3-4: 279-281, 1993.
27. Macovei M, Popa C, and **Alexianu ME**. [*Trigeminal neurotrophic lesions after pontine stroke*](#). Rev Roum Med-Neurol Psychiat 29: 153-158, 1991.
28. Macovei M, Popa C, and **Alexianu ME**. [*Granulomatous angiitis of the central nervous system: case report*](#). Rev Roum Med-Neurol Psychiat 28: 63-71, 1990.
29. Macovei M, Popa C, and **Alexianu ME**. [*Multiple sclerosis associated with axonal neuropathy*](#). Rev Roum Med-Neurol Psychiat 28: 305-315, 1990.
30. Macovei M, Popa C, **Alexianu ME**. [*Particular neurological aspects in vascular autoimmune diseases. II. Cryoglobulinemic vasculitis and polyarteritis nodosa*](#). Rev Roum Med-Neurol Psychiat 27: 249-256, 1989.
31. Macovei M, Popa C, **Alexianu ME**. [*Particular neurological aspects in vascular autoimmune diseases. I. Rheumatoid purpura, Stevens-Johnson syndrome, rheumatoid arthritis and lupus erithematosus*](#). Rev Roum Med-Neurol Psychiat 27: 241-248, 1989.

BOOK CHAPTERS

1. **Alexianu ME**, Appel SH: *Amyotrophic Lateral Sclerosis*. In: Motor Disorders, Younger DS, 2005.

2. **Alexianu ME**, Younger DS: *Fasciculations*. In: Saunders Manual of Neurologic Practice, Ewans RW, pp 564-567, 2003.
3. **Alexianu ME**, Younger DS: *Muscle Cramps*. In: Saunders Manual of Neurologic Practice, Ewans RW, pp 562-564, 2003.
4. Appel SH, **Alexianu ME**, Engelhardt JI, Siklos L, Smith RG, Mosier DR, Habib M. *ALS: Involvement of immune factors in motor neuron cell injury*. In: Amyotrophic Lateral Sclerosis, Brown RH, Meininger V, Swash M, Eds. Martin Dunitz, Ltd., pp 309-327, 2000
5. Appel SH, Engelhardt JI, Siklos L, Smith RG, Mosier D, **Alexianu ME**, Habib M. *Amyotrophic lateral sclerosis: immune-mediated increased intracellular calcium and motoneuron injury*. In: Immunotherapy in neuroimmunologic diseases. Zhang J, Hafler D, Hohlfeld R, Miller A, Eds. Martin Dunitz, Ltd., pp 95-110, 1998.
6. Appel SH, Siklos L, **Alexianu ME**, Colom L, Ho BK, Mohamed AH, Mosier D, Smith RG. *Immune-mediated injury of motoneurons in ALS*. In: XIth TMIN International Symposium, Amyotrophic Lateral Sclerosis - Progress and Perspectives in basic research and clinical application, Tokyo. Excerpta Medica International Congress Series 1104. Nakano, I. And Hirano, A. Eds. Elsevier, pp 184-191, 1996.
7. Appel SH, Smith RG, **Alexianu ME**, Engelhardt J, and Stefani E. *Autoimmunity as an etiological factor in sporadic ALS*. In: Pathogenesis and Therapy of Amyotrophic Lateral Sclerosis, G.Serratrice, T. Munsat, Eds. Advances in Neurology, Vol 68, 6: 47-57, 1995.