

**ALLAN E. RUBENSTEIN, MD
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ACADEMIC TRAINING:

Cornell University, B.A., 1966

University of Rochester School of Medicine, 1966 – 1968

Tufts University School of Medicine, 1968 – 1970, M.D., 1970

Intern, Medicine, Columbia University College of Physicians and Surgeons,
Harlem Hospital Division, 1970 – 1971

Resident in Neurology, Columbia-Presbyterian Medical Center –
New York Neurological Institute, 1971 – 1974

POST-GRADUATE TRAINING:

Annual Course on Radioassay Techniques, The Endocrine Society,
Bethesda, MD, 1977

Medical Genetics and Experimental Mammalian Genetics, Jackson Laboratory,
Bar Harbor, ME, 1982

6th Annual Concussion Across the Spectrum of Injury
NYU Langone Health, 2019

Comprehensive Spine Course
NYU Langone Health, 2019

SPECIALTY BOARD CERTIFICATION:

American Board of Psychiatry and Neurology, 1976 (Neurology)

American Society for Neuroimaging, Neuro-CT, 1982 (Inactive)

MEDICAL SOCIETIES:

American Academy of Neurology, Fellow 1978 – 2004, Active 2004-Present

American Society for Clinical Oncology

Society for Neuro-Oncology
American Association for Cancer Research
New York State Medical Society
New York County Medical Society
New York Academy of Sciences (Inactive)
New York Academy of Medicine
Royal Society of Medicine (Inactive)

HONORS, AWARDS AND APPOINTMENTS

HONORS AND AWARDS:

- 1978: Founder, Children's Tumor Foundation
- 1978-2003: Director of Medical Affairs, Children's Tumor Foundation
- 1989: Distinguished Achievement in Medical Research, East Manhattan Chamber of Commerce
- 2003-Present: Medical Director Emeritus, Children's Tumor Foundation
- 2013: Juilliard School concert series endowed in my honor for children at Hassenfeld Pediatric Cancer Center, NYU Langone Medical Center
- 2014-2019: Connecticut River Museum, Essex, CT: Board of Trustees
- 2015: Fredonia High School (Fredonia, NY) Academic Hall of Fame/Commencement Address
- 2018: Children's Tumor Foundation, 40th Anniversary Award
- 2019: Board of Advisors, Sackler School of Graduate Biomedical Sciences, Tufts University
- 2019: Lunenburg, Nova Scotia Documentary Film Festival: Board of Directors

ACADEMIC JOURNALS:

- Contributing Editor: Mount Sinai Journal of Medicine, 1976 - 2004
- Invited Reviewer: New England Journal of Medicine, Science, Cancer Research, Neurology, Archives of Neurology, Journal of the Autonomic Nervous System, Family Medicine

ACADEMIC ORGANIZATIONS:

- Children's Tumor Foundation
 - 1978: Co-Founder
 - 1978 - 2003: Medical Director
 - 1987 - 2003: Board of Directors
 - 2003-Present: Medical Director Emeritus
 - 2015 Children's Tumor Foundation expert panel on dermal neurofibromas
- Dysautonomia Foundation:
 - 1980 - 1992: Medical Advisory Board
- Von Hippel-Lindau Family Alliance
 - 1994 - 2003 Medical Advisory Board
- American Board of Psychiatry and Neurology
 - 1976-1990: Examiner

GOVERNMENTAL AGENCIES:

- **NINDS**
- 1987: Working Group on NF
- 1987: Neurogenetics Study Section, Ad hoc member -- National Cancer Institute
- 1982: U.S. Representative, U.S. – Japan Cooperative Cancer Program, Workshop on Neural Crest Tumors
- **U.S. FDA**
- 1996, 2001 Neurology Study Section, Ad hoc member -- Orphan Products Grant Program
- **U.S. DEPARTMENT OF DEFENSE**
 - 1997 - 2000 Member, Integration Panel, U.S. Army NF Research Program ,
 - 2001: Head, Integration Panel, U.S. Army NF Research Program

HOSPITAL APPOINTMENTS:

- NYU Langone Medical Center: Adult and Pediatric Neurology
- 2009 – Present: Attending
- Mount Sinai Hospital, Neurology:
 - 1974 - 1981: Assistant Attending
 - 1982 - 2009: Associate Attending
- Beth Israel Hospital, Neurology:
 - 1974 - 1976: Assistant Attending
- Catholic Medical Center of Brooklyn and Queens:
 - 1974 - 1986: Consultant in Neurology

MEDICAL SCHOOL APPOINTMENTS:

- **INSTRUCTOR, NEUROLOGY 1974 - 1976**
 - Department of Neurology, Mount Sinai School of Medicine
 - Chief of Neurology, Bernstein Institute at Beth Israel Hospital
 - Director of Neurology Rotation, Beth Israel Hospital
 - Conducted daily teaching rounds with residents.
 - Organized and ran weekly neurology conference.
 - Supervised medical student rotation in neurology.
- **ASSISTANT PROFESSOR, NEUROLOGY 1977 - 1981**
 - Director, Autonomic Function Laboratory
 - Developed clinical autonomic function laboratory with physiologic, pharmacologic and pupillometric capabilities.
 - Studied autonomic abnormalities in Shy-Drager syndrome, OPCA, Parkinson's disease, various types of peripheral neuropathy and familial Dysautonomia.
 - Received peer reviewed funding from the Dysautonomia Foundation and appointed to its Medical Advisory Board.
 - Contributor to first textbook on autonomic failure, edited by Sir Roger Bannister.
- **ASSOCIATE PROFESSOR, NEUROLOGY: 1982-2008**
 - Director, Mount Sinai Neurofibromatosis Research and Treatment Center
 - **Neurofibromatosis (NF) is a group of genetically determined disorders which predispose to developmental problems of the nervous and skeletal system,**

including learning disability, ADHD, and Asperger's syndrome; neural tumors, including optic glioma, acoustic neuroma, cerebral and spinal tumors; skin tumors; and malignancy.

Established first interdisciplinary clinic devoted to Neurofibromatosis in the world. The clinic has been a model for over 50 other NF clinics in the U.S., Europe and South America. The clinic had one of the largest NF populations in the world.

- Contributed to descriptions of numerous clinical phenomena in NF which expanded the spectrum of the disorder, including learning disability, progressive dural ectasia and adult onset meningocele, congenital megacolon, congenital melanocytic nevi, benign brainstem tumors, xanthogranuloma, clustering of severe complications in NF kindreds, familial transmission of segmental NF, post-zygotic mutation in twins with NF, unidentified bright objects (UBO's) on MRI, large deletion phenotype in NF-1, recurrent sporadic mutations in NF-1, and post-radiation malignancy in NF-2.
- Organized first genetic counseling program for NF, which included individual and family counseling, crisis intervention, outreach and support groups.
- Designated by New York State Office of Mental Retardation and Developmental Disabilities as only NF outreach and Crisis intervention center in New York State.
- Designated as participating center in National NF Foundation pilot project on clinical database for NF; participating center in first multi-center clinical trials for the treatment of NF-1.

RESEARCH

- Developed cellular biology laboratory focusing on growth control in neurofibromas. The laboratory had 2 junior faculty Ph.D.s, 1 post-doctoral fellow and 1 M.D. – Ph.D. candidate. The laboratory received funding from the Easter Seals Research Foundation, the National NF Foundation and the NIH.
- Performed first neurotransmitter analysis of neurofibromas, first studies on effects of growth factors on neurofibromas and first identified NGF receptors on neurofibromas. The latter discovery led to the ability to produce pure schwann cell cultures from neurofibromas and to the use of the NGF receptor gene as a candidate gene in the first successful linkage study on NF.
- NF tumor, blood, skin biopsy and autopsy material from the center was a major source of research material for numerous gene linkage, cloning and cancer research laboratories in the U.S. and Europe.

TEACHING

- Provided specialty clinic experience for adult and pediatric neurology, pediatrics and genetic residents.
- Developed the first NF specialty rotation for genetic counseling students in the world with Sarah Lawrence College graduate program in Human Genetics and the Mount Sinai Department of Genetics.
- **2009-Present:**

CLINICAL PROFESSOR OF NEUROLOGY AND PEDIATRICS, NYU LANGONE MEDICAL CENTER

Activities include patient care, teaching and research. The NYU NF Center has the largest population of NF patients in the US.

CORPORATE ACTIVITIES

1992 – Present: THE COOPER COMPANIES, (COO, NYSE): Vice Chairman of the Board of Directors and Lead Director, Chairman of Governance/Nominating Committee, Member of the Science/Technology Committee.

The Cooper Companies is a publicly-traded medical device company based in Pleasanton, California (COO, NYSE). CooperVision manufactures contact lenses. CooperSurgical/CooperGenomics produces products for Women's Health Care, including the Paragard IUD, IVF equipment and pre-implantation genetic diagnosis. The company has 10,000 employees world-wide and is listed on the S&P 500.

2003-2011: NEXGENIX PHARMACEUTICALS, Founder and CEO

Privately-held drug development effort for orphan neurologic disorders. NexGenix merged in 2011 with Oncosynergy, a public biotechnology company based in San Francisco.

2012-Present: PLEX PHARMACEUTICALS: Chairman, Scientific Advisory Board

Privately-held biotechnology company based in San Diego, California.

2019: COLOURSMITH, Advisory Board

Start-up in Halifax, NS, developing a contact lens for color blindness.

PATENTS/ PATENT APPLICATIONS

1. Heck, J., N. Winssinger, J. Chabala, S. Barluenga, R. Chen, A.E. Rubenstein, X. Shen, J. Yu, M. Giovannini, "Macrocyclic Prodrug Compounds Useful as Therapeutics," International Patent Application, 2009, Application No. PCT/US09/34878.
2. Chen, R., A.E. Rubenstein, X. Shen, and J. Yu, and M. Giovannini, "Treatment of Neurofibromatosis with Radicol and its Derivatives," International Patent Application, Publication No. WO 08/150302.
3. Chen, R., A.E. Rubenstein, and X. Shen, "Local Treatment of Epidermal and Dermal Hyperproliferative Lesions," International Patent Application, Publication No. WO 08/021981.
4. Chen, R., A.E. Rubenstein, X. Shen, and J. Yu, and M. Giovannini, "Treatment of Neurofibromatosis with HSP90 Inhibitors," International Patent Application, Publication No. WO 07/143630.
5. Chen, R., A.E. Rubenstein, X. Shen, and J. Yu, and M. Giovannini, "Treatment of Neurofibromatosis with Inhibitors of a Signal Transduction Pathway," International Patent Application, Publication No. WO 07/143629.

PUBLICATIONS

1. Rubenstein AE, Boyle J, Odoroff CL and Kunitz SJ: Effects of improved sanitary facilities on infant diarrhea in a Hopi village. Public Health Reports 84: 1093 – 1097, 1969.
2. Rubenstein AE and Brust JCM: Parkinsonian syndrome as a complication of post-thyroidectomy hypoparathyroidism. NY State J. Med. 74: 2029 – 2030, 1974.
3. Rubenstein AE, Lovelace RE, Behrens MD and Weisburg, LA: Moebius syndrome in association with peripheral neuropathy and Kallman syndrome. Arch. Neurol. 32: 480-482, 1975.
4. Rubenstein AE and Yahr MD: Adult onset autonomic dysfunction coexistent with familial dysautonomia in a consanguineous family. Neurol. 27: 168-170, 1977.
5. Rubenstein AE and Wainapel SF: Acute hypokalemic myopathy in alcoholism. Arch. Neurol. 35: 553-555, 1977.
6. Yahr MD and Rubenstein AE: Extrapyrarnidal disorder of the central nervous system. In: Tice's Practice of medicine. Vol. 10, Chap. 12, Harper and Row, New York, NY 1977.
7. Rubenstein AE, Yahr MD, Mytilineou C, et al: Peripheral catecholamine depletion in amyloid autonomic neuropathy. Mt. Sinai J. Med. 45 (6): 782-789, 1978.
8. Rubenstein AE, Horowitz SH and Bender AN: Cholinergic dysautonomia in the myasthenic (Lambert-Eaton) syndrome. Neurol. 29: 720-723, 1979.
9. Rubenstein AE, Mytilineou C, Yahr MD, Sivak M, Mindel J. and Frontera AT: Orthostatic hypotension in the Holmes-Adie syndrome. Mt. Sinai J. Med. 47: 15-23, 1980.
10. Gleicher N, Milano CL, Rubenstein AE and Deligdisch L: Phakomatoses in reproductive medicine. Mt. Sinai J. Med. 47: 311-316, 1980.
11. Korczyn AD, Rubenstein AE, Yahr MD and Axelrod F: The pupil in familial dysautonomia. Neurol. 31 (5): 628-629, 1981.
12. Rubenstein AE, Mytilineou C, Yahr MD, Pearson J. and Goldstein M: Neurotransmitter analysis of dermal neurofibromas: implications for the pathogenesis and treatment of Neurofibromatosis. Neurol. 31 (9): 1184-1188, 1981.
13. Mindel JS, Rubenstein AE and Franklin B: Ocular erotamine tartrate troxicity during treatment of vacor-induced orthostatic hypotension. Am. J. Ophthalm. 92: 492-296, 1981.
14. Businaro R, Butler R, Rubenstein AE and Revoltella R: Monoclonal antibodies to mouse nerve growth factor produced by somatic cell hybrids. J. Neurosci. Res. 6: 89-98, 1981.
15. Wulfsohn M and Rubenstein AE: The management of Shy-Drager syndrome with propantheline and intermittent self-catheterization. J. Urology 126: 122-123, 1981.
16. Rubenstein AE, Mytilineou C, Yahr MD and Revoltella R: Neurologic aspects of Neurofibromatosis. Adv. Neurology 29: 11-23, 1981.
17. Riccardi V, Rubenstein AE, Fitzpatrick TB, et al: Clinical Diagnosis of Neurofibromatosis. Adv. Neurology 29: 86-89, 1981.
18. Rubenstein AE, Korczyn AD, Rayfield EJ and Thorton JC: Symposium on Diabetic Autonomic Neuropathy: Neurophysiology. NYS J. of Med. 82 (6): 588-589, 1982.
19. Korczyn AD and Rubenstein AE: Autonomic complications of therapy. In: Silverstein, A. ed: Neurologic Complications of Drugs. Plenum Press, New York, 1982.
20. Rubenstein AE: Amyloid neuropathy, In: Bannister, R., ed. Autonomic Failure. Oxford University Press, London, 1983.
21. Spence AM, Bader JL, Parry DL, Field LL, Funderburk SJ, Rubenstein AE, Gilman A and Sparkes RS: Linkage analysis of Neurofibromatosis. British Journal of Medical Genetics 25: 334-337, 1983.
22. Rubenstein AE: Neurofibromatosis. World Book Encyclopedia 22: 1173, 1983.

23. Rubenstein AE and Yahr F: Neurofibromatosis Information Booklet. Published by the National Neurofibromatosis Foundation, 1983.
24. Rubenstein AE, Gudesblatt M and Yahr MD: Acute autonomic neuropathy. *Int. J. Neurology* 31: 41-43, 1984.
25. Sobue G, Sonnenfeld KH, Rubenstein AE, Pleasure D: Tissue culture studies of Neurofibromatosis: Effects of axolemmal fragments and cyclic adenosine 3', 5' – monophosphate analogues on proliferation of Schwann-like and fibroblast-like neurofibroma cells. *Ann. Neurol.* 18: 68-73, 1985.
26. Sonnenfeld KH, Bernd P, Sobue G, Lebwohl M and Rubenstein AE. Nerve growth factor receptors on dissociated neurofibroma Schwann-like cells. *Cancer Res*, 76: 117, 1986.
27. Rubenstein AE: Neurofibromatosis: A Review of the clinical problem. *Ann. NY Acad. Sci.* 486: 1-13, 1986.
28. Sonnenfeld KH, Bernd P, Rubenstein AE and Sobue G: Nerve growth factor binding to cells derived from Neurofibromatosis. *Ann. NY Acad. Sci.* 486: 107-114, 1986.
29. Pleasure D, Kreider B, Sobue G, Ross A, Koprowski H, Sonnenfeld K and Rubenstein AE: Schwann-like cells cultured from human dermal neurofibromas: immunohistological identification and response to Schwann cell mitogens. *Ann NY Acad. Sci.* 486: 227-240, 1986.
30. Rubenstein AE: Neurofibromatosis. *Medicine in the News* 5:98, 1986.
31. Rubenstein AE: Neurofibromatosis 1977-1987: *Conn. Med.* 42: 1-3, 1987.
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33. Rubenstein AE, Aron A, Wallace S and Halperin J: Neurologic Aspects of Neurofibromatosis. In: *NF: A Handbook for Patients, Families and Health Care Professional*. Thieme-Stratton. NY, 1990, p. 55-58.
34. Aron A, Wallace S, Rubenstein AE and Halperin J: Learning Disabilities in Neurofibromatosis. In: *NF: A Handbook for Patients, Families and Health Care Professionals*. Thieme-Stratton. NY, 1990, p. 55-58.
35. Rubenstein AE and Halperin JC: Neurofibromatosis: Diagnosis and Management. *Neurology Forum* 2 (1): 13-14, 1991.
36. Rubenstein AE: Phakomatoses. In: *Current Diagnosis in Neurology*. Mosby-Yearbook, Phil., 1994.
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38. Mindel J. Rubenstein AE, Walalce S, Aron A, Halperin JH: Congenital Horner's Syndrome does not prevent the development of Lisch Nodules in NF-1. *Ann. Neurology*, 35 (1): 123-124, 1994.
39. Leppig KA, Vislochil D, Neil S, Rubenstein AE, Johnson VP, Zhu XL, Brothman AR, and Stephens K: The detection of contiguous gene deletions at the Neurofibromatosis 1 locus with fluorescence in situ hybridization: *Cytogenet Cell Genet* 72: 95-98, 1996.
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41. Rubenstein AE and Lieberman F: Neurocutaneous Syndromes. In: Prognosis in Neurology. Butterworth-Heinemann, NY, 1998
42. Rubenstein AE and Lieberman F: Clinical Overview of Neurofibromatosis 2. In: Gann Monograph on Cancer Research 46: 1998
43. Maruyama K, Weaver M, Leppig KA, Farber R, Ortenberg J, Rubenstein AE, Immken L, Ccurry C and Stephens K: A quantitative PCR gene dosage assay to detect deletion of the NF-1 gene: Implications for molecular delineation of microdeletions. *J. Am. Soc. Hum. Genetics* 58: 1998
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45. Baser ME, Evans DG, Jackler RK, Sujansky E, Rubenstein A., Neurofibromatosis 2, radiosurgery and malignant nervous system tumours., *Br J Cancer*. 2000 Feb;82(4):998.
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47. Fishbein L, Zhang X, Fisher LB, Li H, Campbell-Thompson M, Yachnis A, Rubenstein, A., Muir D and Wallace MR: In vitro studies of steroid hormones in neurofibromatosis 1 tumors and schwann cells: *Molecular Carcinogenesis* 28: 2007.
48. Wang, C., Barluenga, S., Koripelly, G.K., Fontaine, J., Chen, R., Yu, J., Shen, X., Chabala, J.C., Heck, J., Rubenstein, A. & Winssinger, N. (2009) Synthesis of pochoxime prodrugs as potent HSP90 inhibitors. *Bioorg Med Chem Lett*. 19, 3836-3840.
49. Evans, D.G., Kalamarides, M., Hunter-Schaedle, K., Blakeley, J., Allen, J., Babovic-Vuskanovic, D., Belzberg, A., Bollag, G., Chen, R., DiTomaso, E., Golfinos, J., Harris, G., Jacob, A., Kalpana, G., Karajannis, M., Korf, B., Kurzrock, R., Law, M., McClatchey, M., Packer, R., Roehm, P., Rubenstein, A., Slattery III, W., Tonsgard, R.H., Welling, B., Widemann, B., Yohay, K. & Giovannini, M. (2009) Consensus recommendations to accelerate clinical trials for neurofibromatosis type 2. *Clin. Cancer Res.* **15**, 5032-5039.
50. ZhuH, Woolfenden S, Bronson RT, Jaffer ZM, BarluengaS, Winssinger N, Rubenstein AE, Chen R and Charest A.: The Novel Hsp90 inhibitor NXD3001 induces tumor regression in a genetically engineered mouse model of glioblastoma multiforme. *Molecular Cancer Therapeutics*, September 2010 9:2618-2623.
51. Tanaka K, EskinA, Careyre F, Jessen WJ, Mananet J, Niwa-Kawakita M, Chen R, White CH, Vitte J, Jaffer ZM, RubensteinAE and Giovannini M: Therapeutic potential of Hsp90 inhibition for Neurofibromatosis type 2. *Clinical Cancer Research* 19: 3856-3858, 2013
52. Cha JR, Kyle JH, Tradewell ML, Gentil BJ, Minotti S, Jaffer ZM, ChenR, Rubenstein AE, and Durham H: A novel small molecule HSP90 inhibitor, NXD 30001, differentially induces heat shock proteins in nervous tissue in culture and in vivo. *Cell Stress and Chaperones*. Published online October 3, 2013.
53. GellerM, FilhoAB, OliveiraL, RubensteinAE et al.: A Proof-of-Concept Assessment of the Safety and Efficacy of Intralesional Diclofenac in the Treatment of Cutaneous Neurofibromas. *Int. J. Clinical Med* 2015 (6): 975-983
54. Alessandra Santos, Mauro Geller, Spyros Mezitis, Allan E Rubenstein, Lisa Oliveira, Daniel JM Medeiros Lima, Mendel Suchmacher Neto, Rafael Nigri, Karin Gonçalves Soares Cunha, Sanyu Takirambudde, Marcia Gonçalves Ribeiro: Determination of Vitamin D Levels in Patients With Neurofibromatosis Type 1 in the Pediatric Age Group, Published October 19, 2020 <https://doi.org/10.1177/2632010X20928930>

55. Lisa Brauer Oliveira, Mauro Geller, Karin Soares Cunha, Alessandra Santos, Allan Bernacchi, Allan E. Rubenstein, Sanyu Takirambudde, Spyros Mezitis, Carolina de Almeida Ito Brum, Luiz Guilherme Darrigo, Jr.,o, and Marcia Gonçalves Ribeiro: Clinical assessment of the use of topical liquid diclofenac following laser microporation of cutaneous neurofibromas in individuals with neurofibromatosis type 1, Published March 17, 2021, PMID: PMC8010391

ABSTRACTS

1. Rubenstein AE, Yahr MD and Mytilineou C: peripheral adrenergic hypersensitivity in orthostatic hypotension: The effects of denervation versus decentralization. *Neurology* 28: 376, 1978.
2. Rubenstein AE, Horowitz SH and Bender AN: Cholinergic dysautonomia in the myasthenic (Easton-Lambert) syndrome. *Neurology* 28: 381, 1978.
3. Rubenstein AE, Mytilineou C and Horowitz SH: superficial catecholamine depletion in lepromatous leprosy with intact circulatory reflexes: Evidence for a temperature-linked distribution of autonomic neuropathy. *Neuropathy. Neurology* 30: 568, 1979.
4. Rubenstein AE, Ginsber-Fellner F, Korczyn AD, Witt MD, Horowitz SH, Mindel JS, Frontera AT and Lowe YH: Chronic autonomic neuropathy due to rodenticide ingestion. *Neurology* 29: 443, 1980.
5. Rubenstein AE, Mytilineou C and Yahr MD: Adrenergic neurotransmitters in dermal neurofibromas: Implications for the pathogenesis and treatment of Neurofibromatosis. *Neurology* 30: 440, 1980.
6. Rubenstein AE, Korczyn AD, Yahr MD and Axeldord FB: The pupil in familial dysautonomia. *Neurology* 30: 440, 1980.
7. Pressman MR, Spielman AJ, Korczyn AD, Pollack CP, Rubenstein AE and Weitzman ED: Pupillary rhythms in normals and narcoleptics through the course of a day. *Sleep Research*, 9: March, 1980.
8. Rubenstein AE, Mindel JS, Korczyn AD and Perla CS: Iris nevi in Neurofibromatosis: evidence for a specific effect of puberty. *Neurology* 314: 64, 1981.
9. Rubenstein AE, Korczyn AD, Rayfield EJ and Thornton JC: the pupil in diabetes mellitus. *Neurology* 314: 194, 1981.
10. Bader JL and Rubenstein AE: Disseminated Neurofibromatosis in 1 of 2 monozygous twins. *Neurology* 314: 98, 1981.
11. Bader JL, Kanton AF and Rubenstein AE: Increased risk of cancer with neurofibromatosis. *Proc. Amer. Sci. Clin.. Oncol.* 22, 1981.
12. Rubenstein AE, Mytilineou C and Ladman R: Neurofibromas transplanted to the anterior chamber of the eye: An animal model for axon sheath cell trophic interactions in neurofibromatosis. *Neurology* 32, 1982.
13. Rubenstein AE, Mytilineou C and Ladman R: Successful treatment of pain in familial cutaneous leiomyomatosis with stellate ganglion block. *Neurology* 32. 1982.
14. Spence AM, Bader JL, Parry DL, Field LL, Funderburk SJ, Rubenstein AE, Gilman PA and Sparkes RS: Linkage analysis of Neurofibromatosis. *American Society for Human Genetics*, 1982.
15. Gudesblatt MS, Goodman AD and Rubenstein AE: Autonomic neuropathy in autoimmune disorders. *Neurology* 33, 1983.
16. Rubenstein AE, Korczyn AD and Yahr MD: Thermal salivation following Guillan-Barre syndrome: Evidence for aberrant regeneration of sympathetic cholinergic fibers. *Neurology* 33, 1983.

17. Rubenstein AE, Bader JL, Aron AA and Wallace S: Familial transmission for segmental Neurofibromatosis. *Neurology* 33, 1983.
18. Rubenstein AE, Ladman RK, Mytilineou C, Aron AA, Wallace S. and Stillman S: Nerve growth factor in neural tumors in disseminated Neurofibromatosis. *Neurology* 33, 1983.
19. Rubenstein AE, Bader JL, Pearson J, Buzhilovich G and Sun CJ: The association of smooth muscle tumors with neural crest tumors: Implication for the pathogenesis of Neurofibromatosis. *Proc. American Soc. Clin. Oncol.* 24, 1983.
20. Sonnenfeld KH, Bernd P, Rubenstein AE: Radioautographic identification of 125 I-nerve growth factor binding cells for neurofibromas. *Sox. Neurosci. Abst.* 10: 27, 1984.
21. Rubenstein AE, Aron AM and Wallace S: Adult presentation of Meningoceles in Neurofibromatosis, *Neurology* 34 (Suppl. 1): 168, 1984.
22. Rubenstein AE, Cohen LB, Aron AM and Wallace S: Primary mesenteric plexus alteration as a cause of megacolon in Neurofibromatosis. *Neurology* 34 (Suppl. 1) 211, 1984.
23. Rubenstein AE, Wallace S, Aron AM and Penchazadeh G: Neurological complications in 250 cases of Neurofibromatosis, *Ann. Neurology* 16 (1): 133, 1984.
24. Rubenstein AE, Seitz SC, Wallace S, Aron AM and Lebowitz M: Increased Risk of Congenital Pre-Malignant Melanocytic Nevi in Neurofibromatosis: *Neurology* 35 (Suppl. 1): 194, 1985
25. Rubenstein AE, Wallerstein R, Aron Rubenstein et al: Lack of correlation of megalencephaly with learning disability in disseminated Neurofibromatosis. *Am. J. Hum. Genet.* 37 (Suppl.): 214, 1985.
26. Taff IP, Handelsman J, Rubenstein AE, Aron A and Wallace S: Madelung's Deformity Associated with Von Recklinghausen Neurofibromatosis (VRNF); "Extension of the spectrum of Dysplastic Phenomena Associated with VRNF" *Neurology* 36, (Suppl. 1): 168, 1986.
27. Rubenstein AE, Taff I, Aron A and Wallace S Clustering of severe complications in 2 kindred with Neurofibromatosis 1: *Neurology* 37, (Suppl. 1): 132, 1987.
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29. Rubenstein AE, Wallace S, Aron A and Halperin J: Severe Pruritus in a Case of NF1, American Society of Human Genetics, NNFF Clinical Care Conference, San Diego, 1987.
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31. Rubenstein AE, Halperin J, Aron A, Wallace S and Sassower K: NF 1 and 2: Distinct Genotypes with Overlapping Phenotypes: *Am. J. Hum. Genet.* 45 (3) Suppl.: 195, 1988.
32. Rubenstein AE, Halperin J, Siezenger B and Bader J: A Possible Double Dose Family of NF1, NNFF 10th Anniversary Research Symposium, NY 1988.
33. Rubenstein AE, Wallace S, Aron A, Kugler S and Halperin J: UBO's on MRI in NF1: American Society of Human Genetics, NNFF Clinical Care Symposium, New Orleans, 1988.
34. Aron A, Rubenstein AE, Wallace S, Kugler S and Halperin JC: Optic Glioma in NF1: The Mt. Sinai NF Center Experience. National NF Foundation Conference on Optic Gliomas in NF, New York, 1989.
35. Rubenstein AE, Halperin JC, Mindel J, Wallace S and Aron A: Lisch Nodules in neurofibromatosis-1 are not Dependent on Sympathetic Intervention. *Am. J. Hum. Genet.* 47 (3) Suppl.: A76, 1990.
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37. Baser ME, MacColin NM, Sujansky E, Evans DGR and Rubenstein AE: Malignant nervous system tumors in patients with NF2. Fed. Amer. Soc. Exp. Biol. Summer Research Conference on NF, Aspen, 1996.
38. Rubenstein AE, Luce N, Wallace S, Nizam F. and Aron A: Multiple de novo mutations in the NF1 gene in a kindred demonstrated by protein truncation assay. Fed. Amer. Soc. Exp. Biol. Summer Research conference on NF, Aspen, 1996.
39. Rubenstein AE, Luce M, Wallace S and Davis L: Absence of abnormality on protein truncation assay for NF1 mutation in 2 cases of Proteus syndrome: Further evidence that the Elephant Man did not have NF1. Fed. Amer. Soc. Exp. Biol. Sumer Research Program on NF, Aspen, 1996.
40. Srinivasa Reddy Natala, Shyama Siddique, David Carney, Ann Mladek, Jeffrey Stebbins, Li Yang, Pooi San Lee, Daniel Brimberry, Robert Ardecky, Peter Teriete, Allan Rubenstein, Jann Sarkaria, Nicholas Cosford, and Sridhar Prasad: Cyto-Mito™ - A Novel Class of Dual-Acting Hsp90 Inhibitors for the Treatment of Glioblastoma, Neuro-Oncology, Volume 19, Issue suppl_6, 6 November 2017, Pages vi61, <https://doi.org/10.1093/neuonc/nox168.248>.

BOOKS

1. Neurofibromatosis: edited by Allan E. Rubenstein, Richard P. Bunge and David E. Housman. New York Academy of Sciences, NY, 1986.
2. Neurofibromatosis: A Handbook for Patients, Families and Health Care Professionals. Edited by Allan E. Rubenstein and Bruce R. Korf. Thieme-Stratton, NY, 1990.
3. Neurofibromatosis: A Handbook for Patients, Families and Health Care Professionals. 2nd Edition. Bruce R. Korf and Allan E. Rubenstein, Thieme, NY, 2005.

INVITED LECTURES AND NON PUBLISHED PAPERS PRESENTED AT NATIONAL CONFERENCES

1. Columbia-Presbyterian Medical Center, NY, Neurology Grand Rounds: Acute Autonomic Neuropathy, 1981.
2. Massachusetts General Hospital, Boston, Neurofibromatosis Symposium, Department of Neurosurgery: Theoretical Aspects of Neurofibromatosis, 1982.
3. National Institute of Health, Bethesda, Interdepartmental Genetics Conference: A Possible Double Dose Family with Neurofibromatosis, 1982.
4. National Cancer Institute, U.S. – Japan Cooperative Cancer Program: Workshop on Neural Crest Tumors, Honolulu, 1982.
5. Yale University School of Medicine, New Haven, Neurofibromatosis Symposium, Department of Genetics: Neurofibromatosis: An Overview, 1984.
6. University of California at San Diego, San Diego, Neurofibromatosis Symposium, Department of Genetics: Neurofibromatosis Aspects of Neurofibromatosis, 1985.
7. University of Medicine and Dentistry of New Jersey, Rutgers, Neurology Grand Rounds: Neurofibromatosis, 1985.
8. North Shore University Hospital, Great Neck, Neurofibromatosis Symposium, Department of Genetics: Current Research in Neurofibromatosis, 1986.
9. Israel Neurological Society Annual Meeting, Tel Aviv, Invited Guest Lecture: Current Research in Neurofibromatosis, 1986.

10. Tulane University School of Medicine, New Orleans, Neurofibromatosis Symposium, Department of Genetics: Current Research in Neurofibromatosis, 1986.
11. Albany Medical College, Albany, Neurofibromatosis Symposium, Department of Rehabilitation Medicine: A Clinical Review of Neurofibromatosis, 1986.
12. University of Medicine and Dentistry of New Jersey, Newark, Neurology Grand Rounds: Neurofibromatosis, 1987.
13. 1st European Conference on Neurofibromatosis Sponsored by the British Neurofibromatosis Foundation: Neurofibromatosis: An Overview, 1987.
14. University of Indiana Medical Center, Indianapolis, Visiting Professor in Neurology, Neurology Grand Rounds: Neurologic Aspects of Neurofibromatosis, 1987.
15. University of Cincinnati Medical Center, Cincinnati, Department of Genetics: Review of Current Research in Neurofibromatosis, 1987.
16. The Salk Institute, La Jolla, Department of Neurosciences: Neurofibromatosis: the Clinical Problems, 1987.
17. University of South Florida Medical School, Tampa, Department of Genetics, Neurofibromatosis Symposium: Current Research in Neurofibromatosis, 1987.
18. Columbia-Presbyterian medical center, New York, Orthopedic Grand rounds: Orthopedic Aspects of Neurofibromatosis, 1987.
19. National Institute of Health, Bethesda, Consensus Development Conference on Neurofibromatosis: Variant Forms of Neurofibromatosis, 1987.
20. Booth Memorial Hospital, Queens, Pediatric Grand Rounds: Neurofibromatosis in Children, 1988.
21. The Cleveland Clinic, Cleveland, Department of Neurology, Neurofibromatosis Symposium: Neurologic Aspects of Neurofibromatosis, 1989.
22. Hackensack Medical Center, Hackensack, Pediatric Grand Rounds: Neurofibromatosis: Current Status, 1989.
23. Memorial Sloane-Kettering Hospital, New York, Pathology Seminar: Neurofibromatosis: An Update, 1990.
24. California Chapter NNF Symposium, Los Angeles: Neurologic Aspects of Neurofibromatosis, 1990.
25. National Association for Research in Neurologic Disorders, Washington, D.C." Research in Neurofibromatosis: The Next Decade, 1990.
26. First German Symposium on Neurofibromatosis, Sponsored by the German Neurofibromatosis Foundation, Hamburg: Neurofibromatosis Research: An Overview, 1990.
27. Cold Spring Harbor Conference, Cold Spring Harbor, Research Directions in Neurofibromatosis: Sympathetic Influences on Development of the Neurofibromatosis Phenotype, 1990.
28. University of Washington Medical Center, Seattle, Visiting Professor in Genetics: Phenotype Diversity in Neurofibromatosis, 1990.
29. Society for Neuroscience Annual Meeting, St. Louis, Neurofibromatosis Symposium: Neurofibromatosis – The Clinical Problem, 1990.
30. Rockefeller University, New York, Department of Dermatology: Neurofibromatosis: A Clinical Overview and Research Update, 1990.
31. Albert Einstein School of Medicine, New York, Neurology Grand Rounds: Neurofibromatosis, 1991.
32. World Health Organization Conference on Neurofibromatosis, Jacksonville, Neurofibromatosis: Incidence and Distribution, 1991.
33. Medical Center of Delaware, Wilmington, Neurology Grand Rounds: Neurofibromatosis, 1991.

34. American Academy of Neurology Annual Meeting, Boston, Seminar: Neurofibromatosis; From Clinical Phenotypes to the Genes, 1991.
35. University of Medicine and Dentistry of New Jersey, Rutgers, Neurology Grand Rounds: Neurofibromatosis update, 1992.
36. University of Medicine and Dentistry of New Jersey, Newark, Neurology Grand Rounds: Neurofibromatosis Update, 1992.
37. 2nd European Conference on Neurofibromatosis, Vienna: NF: A Clinical Overview, 1992.
38. International Congress of Dysmorphology, Strasbourg: Historical Aspects of NF1 and NF2, 1993.
39. International NF Association Conference, Hong Kong: Neurological Aspects of NF-1, 1994.
40. Jikei University, Tokyo: Neurological Aspects of NF-1, 1994.
41. Fifth European Neurofibromatosis Symposium, University of Leuven, Belgium: Recent Advances in NF-1 and NF-2, 1995.
42. Fifth European Neurofibromatosis Symposium, University of Leuven, Belgium: Post-radiation malignancy in NF-2, 1995.
43. Beijing University, Beijing: NF-1: A Clinical Overview, 1995.
44. Cold Spring Harbor Banbury Conference, Cold Spring Harbor, Developing Therapies for Neurofibromatosis: NF-1 Treatment: Data and Data Collection, 1995.
45. Neuro-otology New York 1996 (CME Conference) NF-2: An Update.
46. UCSD, Children's Hospital, San Diego: Mini Seminar LVII: NF – Overview and Recent Developments, 1995.
47. Sarah Lawrence College, New York, Graduate Program in Human Genetics: NF: An Update, 1997.
48. Manhattan Eye, Ear and Throat Hospital, New York. Otolaryngology Grand Rounds: NF-2, 1997.
49. Lenox Hill Hospital, New York, Pediatric Grand Rounds: NF: An Overview, 1998.
50. NYU Medical Center. Neurology Grand Rounds: Advances in genetic diagnosis of NF-1 and NF-2, 1998.
51. 12th European Symposium on Neurofibromatosis, Lisbon, 2007: NX101: Development of a non-surgical treatment for dermal neurofibromas in neurofibromatosis type 1.
52. Chen, R., Yu, J.C., Shen, X.D., Rubenstein, A.E., Tsutsumi, S., Beebe, K., Neckers, L., Barluenga, S., Wang, C., Fontaine, J., KaAouadi, K., and Winssinger, N. Pochoximes, potent Hsp90 inhibitors with in vivo activities. 4th international conference on The Hsp90 Chaperone Machine October 2-6th, 2008, Seon, Germany.
53. Panday, U., Cha, J., Jaffer, Z.M., Chen, R., Durham, H., Taylor, J.P., Winssinger, N., and Rubenstein, A.E. Proof-of-concept for a novel small molecule Hsp90 inhibitor for aging-related diseases. 13th Congress of the International Association of Biomedical Gerontology, 2009, Quebec City, Canada
54. Third International Research Workshop on Frontotemporal Dementia in ALS. Sunday June 21 - Thursday June 25, 2009. London, Ontario, Canada. Inhibitors as Potential Therapeutic Agents in ALS
55. Cha, J., Pandey, U., Zhu, H., Jaffer, Z. M., Chen, R., Charest, A., Taylor, J. P., Durham, H. D., Winssinger, N., and Rubenstein, A.E. A novel small molecule Hsp90 inhibitor: Applications for diseases of the nervous system. Gordon Conference: Stress Proteins in Growth, Development & Disease, 2009, Proctor Academy, Andover, NH.
56. Lukyanov, E., Chen, R., Zaffer, Z.M., Winssinger, N., Rubenstein, A.E., Zagzag, D., and Newcomb, E.W. Hsp90 inhibitor NXD30001 increased survival of GL261 glioma bearing mice. Joint Meeting of the Society for Neuro-Oncology and the AANS/CNS Section on Tumors, 2009, New Orleans, Louisiana.

57. Pandey, U., Jaffer, Z.M., Chen, R., Taylor, J. P., Winssinger, N., and Rubenstein, A.E. Proof-of-concept for a novel small molecule Hsp90 inhibitor for SBMA. Motor Neurone Disease Association, International Symposium on ALS/MND, 2009, Berlin, Germany.
58. Durham, H.D., Cha, J., Jaffer, Z. M., Chen, R., Winssinger, N., and Rubenstein, A.E. Evaluating the therapeutic potential of a novel small molecule Hsp90 inhibitor for motor neuron diseases. Motor Neurone Disease Association, International Symposium on ALS/MND, 2009, Berlin, Germany
59. Rubenstein, A.E., Pandey, U, Jaffer, ZM, Chen, R., Barluenga, S., Winssinger, N., and Taylor, J.P Proof-Of-Concept for a novel small molecule Hsp90 inhibitor for spinal and bulbar muscular atrophy (SBMA). American Academy of Neurology, 62nd Annual Meeting, 2010, Toronto, Canada.
60. Chen, R., Tanaka, K., Jaffer, Z.M., Winssinger, N., Giovannini, M. and Rubenstein, A.E. Targeting a chaperone for Neurofibromatosis Type 2. House Ear Institute and Children's Tumor Foundation, NF2 – State of the Clinical Trial Meeting, 2010, Las Vegas, Nevada.
61. Karo, T., Jaffer, Z.M., Chen, R., Winssinger, N. Rubenstein, A.E. and Giovannini, M. Therapeutic potential for a novel Hsp90 inhibitor, NXD30001, for NF2. Children's Tumor Foundation, Annual Conference, 2010, Baltimore, Maryland.
62. Mild Traumatic Brain Injury. National Video Conference. Everest Re Insurance Company 2021.