

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME		POSITION TITLE	
Brian Patrick O'Neill		Professor of Neurology	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
State University of New York, Syracuse, NY	M.D.	1970	Medicine
Emory University Affiliated Hospitals, Atlanta, GA		1970-72	Internal Medicine
University of Virginia Hospital, Charlottesville VA		1972-73	Neurology
National Hospital for Nervous Diseases, London		1973-74	Neuropathology
University of Virginia Hospital, Charlottesville, VA		1974-76	Neurology

A. *Positions and Honors*

Positions and Employment

1978-1983	Assistant Professor of Neurology, Mayo Medical School
1983-1988	Associate Professor of Neurology, Mayo Medical School
1988-present	Professor of Neurology, Mayo Medical School
1994-present	Head, Intra-institutional Division of Neuro-Oncology, Mayo Foundation
2000-present	Co-Leader, Neuro-Oncology Program, Mayo Clinic Cancer Center (P30 CA15083)
2004-present	Director, Mayo SPORE in Brain Cancer (P50 CA108961)

Other Noteworthy Experience and Professional Memberships

1983-present	Fellow, American Academy of Neurology
1984-present	Elected Member, American Neurological Association
1986-present	Elected Member, American Society of Clinical Oncology
1998-present	Full Member, Mayo Clinic Cancer Center
1999-present	Member, Mayo Clinic Cancer Center Executive Committee
1999-present	Elected Member, American Association for Cancer Research
2000-2004	Elected Member, CNS Tumors Committee, American College of Surgeons Oncology Group
2000-present	Appointed Member, Neuroscience Scientific Committee, Children's Oncology Group
2000-present	Appointed Member, Neuro-Oncology Executive Committee, American Academy of Neurology
2002-present	Appointed Member, International Extranodal Lymphoma Study Group (IELSG) for PCNSL
2003-present	Founding member, Scientific Advisory Board, Sontag Foundation
2005-present	NCI SPORE Investigators' Workshop Planning Committee
2006-present	"Best Doctors in America"
2006-present	Invited Participant, National Cancer Institute Translational Research Working Group (TRWG) Roundtable
2006-present	Councilor, Neuro-Oncology Section, American Academy of Neurology

Honors

1998	Distinguished Career Award, Mayo Clinic Rochester
1999	Neurology/Neurosurgery Outstanding Educator Award, Mayo Clinic Rochester

B. *Selected peer-reviewed publications; those listed refer to his research expertise, Primary CNS Lymphoma.*

- Karantanis D, O'Neill BP, Subramaniam RM, Peller PJ, Witte RJ, Mullan BP, Wiseman GA. Contribution of F-18 FDG PET-CT in the Detection of Systemic Spread of Primary Central Nervous System Lymphoma (PCNSL). Clinical Nuclear Medicine (In review).

- Pulido JS, Kitzmann AS, Mohny BG, Baratz KH, Grube T, Marler RJ, Donaldson MJ, O'Neill BP, Johnston PJ, Johnson KM, Dixon LE, Salomao DR, Cameron JD. Intraocular toxicity of Rituximab. *Amer J Ophthal* (In review)
- O'Neill BP, Vernino SA, Dogan A, Giannini C. EBV-associated lymphoproliferative disorder of CNS associated with the use of mycophenolate mofetil. *Neuro-Oncology* (In press)
- Laack NN, Ballman KV, Brown PD, O'Neill BP. Whole-brain radiotherapy (WBRT) and high-dose methylprednisolone (HDMP) for elderly patients with Primary Central Nervous System Lymphoma (PCNSL): Results of North Central Cancer Treatment Group (NCCTG) 96 73 51. *Int J Radiat Oncol Biol Phys* 2006; 65: 1429-39.
- Jahnke K, Korfel A, O'Neill BP, Blay J-Y, Abrey LE, et al. International Primary Central Nervous System Lymphoma Collaborative Group (IPCG) Study on Low-grade Primary Central Nervous System Lymphoma in Immunocompetent Patients. *Ann Neurol* 2006; 59: 755-62.
- Vernino SA, Salomao D, Habermann TA, O'Neill BP. Primary CNS Lymphoma complicating treatment of Myasthenia Gravis with Mycophenolate Mofetil. *Neurology* 2005; 65: 639-41.
- Tu P-H, Giannini C, Judkins AR, Burack R, O'Neill BP, Yachnis PT, Burger PC, Scheithauer BW, Perry A. Clinicopathologic and Genetic Profile of Intracranial Marginal Zone Lymphoma: A Primary Low-grade CNS Lymphoma that Mimics Meningioma. *J Clin Oncol*. 2005 Jul 11; [Epub ahead of print].
- Shenkier TN, Jean-Yves Blay J-Y, O'Neill BP, Poortmans P, Thiel E, et al. Primary Central Nervous System Lymphoma of T cell origin: A Descriptive Analysis. *J Clin Oncol* 2005; 23: 2233-2239.
- Abrey LE, Batchelor TT, Ferreri AM, Gospodarowicz M, Pulczynski EJ, et al. Report of an International (IPCG) workshop to standardize baseline evaluation and response criteria for primary CNS lymphoma. *J Clin Oncol* 2005; 23: 5034-5045.
- Ghobrial I, Buadi F, Spinner RJ, Colgan JP, Wolanskyj AP, Dyck PJ, Witzig TE, Micallef VN, O'Neill BP. Neurolymph High dose intravenous methotrexate followed by autologous stem cell transplantation as a potentially effective therapy for Neurolymphomatosis. *CANCER* 2004; 100: 2403-7.
- Olson JE, Janney CA, Rao RD, Cerhan JR, Kurtin PJ, Schiff D, Kaplan RS, O'Neill BP. The Continuing Increase in Primary Central Nervous System Non-Hodgkin's Lymphoma (PCNSL): A Surveillance, Epidemiology, and End Results (SEER) Analysis. *CANCER* 95: 1504-10, 2002.
- Schiff D, O'Neill BP, Wijdicks E, Antin JH, Wen PY. Gliomas Arising in Organ Transplant Recipients: an Unrecognized Complication of Transplantation? *Neurology* 2001; 57: 1486-8
- O'Neill BP. Neurologic Complications of Non-Hodgkin's Lymphoma. In, Schiff D, Wen PY (Ed.). *Practical Neuro-Oncology*. Humana Press. 2001 (Book Chapter).
- O'Neill BP, Witzig TE: Invited review: Update on Management of Primary CNS Lymphoma. *ONCOLOGY* 14: 242-244, 2000.
- Phan T, O'Neill BP, Kurtin PJ. Post-transplant Primary CNS Lymphoma. *NEURO-ONCOLOGY* 2: 229-238, 2000.
- Fonseca R, Inwards DJ, Habermann TM, Colgan JP, O'Neill BP, et al. Testicular Lymphoma is Associated with a High Incidence of Extranodal Relapse. *CANCER* 88: 154-161. 2000.
- O'Neill BP, Wang C-H, O'Fallon JR, Colgan JP, Earle JD, et al. The Consequences of Treatment and Disease in Patients with Primary Central Nervous System non-Hodgkin's Lymphoma (PCNSL) Cognitive function and performance status. *NEURO ONCOL* 1: 196-203, 1999.
- Molnar PP, O'Neill BP, Scheithauer BW, Groothuis DR. The blood-brain barrier in primary CNS lymphomas: Ultrastructural evidence of endothelial cell death. *Neuro-Oncology* 1: 89-100, 1999.
- O'Neill BP, Wang C-H, O'Fallon JR, et al. Primary Central Nervous System non-Hodgkin's Lymphoma (PCNSL): Survival Advantages with Combined Initial Therapy" Update. *INT J RADIAT ONCOL BIOL PHYS* 43: 559-63, 1999.
- O'Neill BP, Haberman TM, Witzig TE: Pilot Results of an Adjuvant Therapy in Primary Central Nervous System Lymphoma (PCNSL): Prevention of Recurrence and Prolongation of Survival in High-risk Patients. *J NEURO ONCOL* 39: 170, 1998.
- Schiff D, Suman VJ, Yang P, Rocca WA, O'Neill BP: Risk Factors for Primary Central Nervous System non-Hodgkin's Lymphoma (PCNSL). *CANCER* 82: 975-982, 1998.
- Lyons MK, O'Neill BP, Kurtin PJ, Marsh WR: Diagnosis and Management of Primary Spinal Epidural non-Hodgkin's Lymphoma. *MAYO CLIN PROC* 71: 453-457, 1996.

- Schaller C, O'Fallon JR, Kelly PJ, O'Neill BP. Primary Central Nervous System Lymphoma (PCNSL): does age and histology at presentation affect outcome? Zentralbl Neurochir 57: 156-162, 1996.
- Tomlinson FH; Kurtin PJ; Suman VJ; Scheithauer BW; O'Fallon JR, Kelly PJ; Jack CR; O'Neill BP: Primary Intracerebral Malignant Lymphoma: A Clinicopathologic Study of 89 Patients. J Neurosurg 82: 558-566, 1995.
- O'Neill BP; O'Fallon JR; Earle JD; et al. Primary CNS non-Hodgkin's Lymphoma: Survival Advantages with Combined Initial Therapy. INT J RADIAT ONCOL BIOL PHYS 33: 663-673, 1995.
- O'Neill BP; Dinapoli RP; Kurtin PJ; Habermann TM: Occult Systemic non-Hodgkin's Lymphoma (NHL) in Patients Initially Diagnosed as Primary Central Nervous System Lymphoma (PCNSL): How Much Staging is Enough? J NEUROONCOL 25: 67-71, 1995.
- Cheng TM; O'Neill BP; Scheithauer BW; Piegras DG: Chronic Meningitis: The Role of Meningeal or Cortical Biopsy. NEUROSURG 34, 4: 590-596, 1994.
- Kaufman DK; Habermann TM; Kurtin PJ; O'Neill BP: Neurologic Complications of Peripheral and Cutaneous T-Cell Lymphomas. ANN NEUROL 36: 635-639, 1994.
- Lachance DH; O'Neill BP; Li C-Y; et al. Primary Leptomeningeal Lymphoma: Diagnosis Aided by Immunocytochemical Analysis. NEUROLOGY 41: 95-101, 1991.
- O'Neill BP; Illig J: Primary Central Nervous System Lymphoma. MAYO CLIN PROC 64: 1005-1020, 1989.
- O'Neill BP; Banks PM; Habermann, TM; et al: Primary Central Nervous System Lymphoma as a Variant of Richter's Syndrome in Two Patients with Chronic Lymphocytic Leukemia. CANCER 64: 1296-1300, 1989.
- Jack CR; O'Neill BP; Banks PM; Reese DF: Primary Central Nervous System Lymphoma: Histologic Subtypes and CT Appearance. RADIOLOGY 167: 211-215, 1988.

C. *Ongoing Research Support*

NIH

NCI U10 CA 28882-04 (PI: Arndt CA)
Co-Investigator
Institutional Principle Investigator-CNS
Childrens Cancer Group

12/1/98-11/30/03

NIH

NCI P30 CA 15083 (PI: Prendergast FG)
Mayo Clinic Cancer Center CCSG
Leader: Neuro-Oncology Program Leadership

1/1/02-2/29/04

NIH

NINDS T32 NS 07494 (Co-assignment with NCI)
Research Training Program in Neuro-Oncology

7/1/02-6/30/07

Director: This training grant is designed to recruit, develop, mentor and subsequently employ new brain tumor scientists who will impact the nation's neuro-oncology agenda.

NIH

NCI P50 CA 108961
SPORE in Brain Cancer

1/1/05-12/31/09

PI: I am the Overall SPORE Principal Investigator and the Director of the Administrative Core

D. Completed Research Support

NIH
NCI RO1 CA59424 (PI: Robb RA) **04/01/93-03/31/96**
3-D Image Analysis of Tumor Volumes
Co-Investigator: The goal of this study was to develop, validate and translate into clinical practice new imaging techniques. My role was to identify suitable patients for this study and evaluate them clinically for correlation with imaging.

NIH
NCI U10 CA25224 (PI: Buckner, JC) **01/1/96-12/31/00**
PI, NCCTG Clinical Trial 93 73 51: This study increased progression –free survival and overall survival in adult patients under the age of 70 years with PCNSL.

FNDT
Eagles Cancer Fund 441-M-94 (PI: Schiff D) **04/01/94-03/31/95**
Risk Factors for Primary CNS Lymphoma
Principal Mentor: My role was to mentor a young investigator in an important cancer epidemiology project

NIH
NCI U10 CA25224 (PI: Buckner, JC) **01/1/01-12/31/05**
PI, NCCTG Clinical Trial 96 73 51: The purpose of this study is increase progression –free survival and overall survival in elderly (>70 yrs) patients with PCNSL.

NIH
NCI P50 CA 97274 (Weiner, GW) **1/1/03-12/31/07**
Lymphoma SPORE
PI, Developmental Project: Examination of B-cell homeostatic mechanisms in primary CNS lymphoma (1/1/03-12/31/05)

NIH
NCI PO1 CA 85799 (PI: Jenkins RB) **4/1/01-3/31/06 (no-cost extension)**
Molecular Markers of Glioma Initiation and Progression
Co-Investigator: My role in this program project grant is genotype-phenotype correlation of patients identified over the course of the project

DOD
DAMD 17-2-1-064-01 **06/01/02-5/31/06**
Plexiform neurofibromas in NF1
Co-Investigator: I am responsible for initial evaluation; management; and assessment of response, patterns of failure, and toxicity in study patients.