

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
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NAME Ross, Christopher A.		POSITION TITLE Professor	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Princeton University	B.A.	1975	Psychology
Cornell Medical College	M.D.	1983	Medicine
Cornell University Graduate School	Ph.D.	1983	Neurobiology

A. Positions, Honors and PublicationsTRAINING AND PROFESSIONAL EXPERIENCE

1983-1984	Intern, Departments of Medicine and Psychiatry, Baltimore City Hospital
1984-1987	Assistant Resident and Resident, Henry Phipps Psychiatric Clinic, Johns Hopkins Hospital
1987-1991	Laboratory of Solomon Snyder, Department of Neuroscience, JHU
1987-Present	Active Staff, Department of Psychiatry, The Johns Hopkins University, School of Medicine
1991-Present	Director, Laboratory of Molecular Neurobiology
1993-Present	Director, Research Center Without Walls for Huntington's disease (HD)
1996-Present	Director, Division of Neurobiology, Department of Psychiatry

ACADEMIC APPOINTMENTS

1987-1996	Assistant and Associate Professor, Departments of Psychiatry & Neuroscience, JHU
1996-Present	Professor, Department of Psychiatry, and Departments of Neuroscience and Neurology, JHU

HONORS AND AWARDS

1987-91	Pew Foundation Biomedical Sciences Scholar Award
1992	Johns Hopkins Clinician-Scientist Award
1996, 2000	Milton Wexler Award for HD Research, HD Society of America (HDSA)
2002	Guthrie Family Humanitarian Award, HDSA

PROFESSIONAL CONSULTANCIES AND MEMBERSHIPS

•HDSA Science Council and Medical and Scientific Advisory Committee, Chair (1997-2002) •Johns Hopkins Clinician Scientist Award Review Committee •Active *ad hoc* reviewer for: Cell, Nature, Nature Genetics, Nature Medicine, Neuron, Annals of Neurology •Editorial boards: Human Molecular Genetics (1998-2002), Neurobiology of Disease, and Current Neurobiology and Neuroscience Reports (Genetics Section editor) (current) •Memberships: Society for Neuroscience, American Society for Cell and Biology, American Society for Human Genetics •Member of NINDS NST study section 1998-2001 •Chair of NIMH SEP study section for training grants, 11/25-26/2002 •Chair of NINDS SEP for translational research grants 1/9/03 and 7/31/03 •Member of CDIN study section (current)

Selected peer-review publications (in chronological order)

Ross CA. When more is less: pathogenesis of glutamine repeat neurodegenerative diseases. Neuron 15(3):493-6 (1995).
Li XJ, Li SH, Sharp AH, Nucifora FC Jr, Schilling G, Lanahan A, Worley P, Snyder SH, **Ross CA.** A huntingtin-associated protein enriched in brain with implications for pathology. Nature 378(23):398-402 (1995).
Engelender S, Kaminsky Z, Guo X, Sharp AH, Amaravi RK, Kleiderlein JJ, Margolis RL, Troncoso JC, Lanahan AA, Worley PF, Dawson VL, Dawson TM, **Ross CA.** Synphilin-1 associates with alpha-synuclein and promotes the formation of cytosolic inclusions. Nature Genet 22(1):110-4 (1999).

- Schilling G, Becher MW, Sharp AH, Jinnah HA, Duan K, Kotzuk JA, Slunt HH, Ratovitski T, Cooper JK, Jenkins NA, Copeland NG, Price DL, **Ross CA**, Borchelt DR. Intranuclear inclusions and neuritic aggregates in transgenic mice expressing a mutant N-terminal fragment of huntingtin. *Hum Mol Genet* (3):397-407 (1999).
- Ranen NG, Stine OC, Abbott MH, Sherr M, Codori A-M, Franz ML, Chao NI, Chung AS, Pleasant N, Callahan C, Chase GA, Brandt J, Folstein SE and **Ross CA**. Anticipation and instability of IT-15 (CAG)_n repeats in parent-offspring pairs with Huntington disease. *Am J Hum Genet* 57(3):593-602 (1995).
- Sawa A, Wiegand GW, Cooper J, Margolis RL, Sharp AH, Lawler JF Jr., Greenamyre JT, Snyder SH, **Ross CA**. Increased apoptosis of Huntington disease lymphoblasts associated with repeat length-dependent mitochondrial depolarization. *Nature Med* 5(10):1194-8 (1999).
- Schilling G, Wood JD, Duan K, Slunt HH, Gonzales V, Yamada M, Cooper JK, Margolis RL, Jenkins NA, Copeland NG, Takahashi H, Tsuji S, Price DL, Borchelt DR, **Ross CA**. Nuclear accumulation of truncated atrophin-1 fragments in a transgenic mouse model of DRPLA. *Neuron* 24(1):275-86 (1999).
- Aylward EH, Codori AM, Rosenblatt A, Sherr M, Brandt J, Stine OC, Barta PE, Pearlson GD, **Ross CA**. Rate of caudate atrophy in presymptomatic and symptomatic stages of Huntington's disease. *Mov Disord* 15(3):552-60 (2000).
- Nucifora FC Jr., Sasaki M, Peters MF, Huang H, Cooper JK, Yamada M, Takahashi H, Tsuji S, Troncoso J, Dawson VL, Dawson TM, **Ross CA**. Interference by huntingtin and atrophin-1 with CBP-mediated transcription leading to cellular toxicity. *Science* 291:2423-8 (2001).
- Holmes SE, O'Hearn E, Rosenblatt A, Callahan C, Hwang HS, Ingersoll-Ashworth RG, Fleisher A, Stevanin G, Brice A, Potter NT, **Ross CA**, Margolis RL. A repeat expansion in the gene encoding junctophilin-3 is associated with Huntington disease-like 2. *Nature Genet* 29(4):377-8 (2001).
- Margolis RL, O'Hearn E, Rosenblatt A, Willour V, Holmes SE, Franz ML, Callahan C, Hwang HS, Troncoso JC, **Ross CA**. A disorder similar to Huntington's disease is associated with a novel CAG repeat expansion. *Ann Neurol* 50(6):373-80 (2001).
- Poirier MA, Li H, Macosko J, Cai S, Amzel M, **Ross CA**. Huntingtin spheroids and protofibrils as precursors in polyglutamine fibrilization. *J Biol Chem* 277: 41032-37 (2002).
- Ross CA** Polyglutamine pathogenesis: emergence of unifying mechanisms for Huntington's disease and related disorders. *Neuron* 35(5):819-822 (2002).
- Aylward EH, Rosenblatt A, Field K, Yallapragada V, Kiebertz K, McDermott M, Raymond LA, Almqvist EW, Hayden M, **Ross CA**. Caudate volume as an outcome measure in clinical trials for Huntington's disease: a pilot study. *Brain Res Bull* 2003 Dec;62(2):137-41.
- Ross CA**, Poirier MA, Wanker EE, Amzel M. Polyglutamine fibrillogenesis: The pathway unfolds. *Proc Natl Acad Sci USA* 100:1-3 (2003).
- Rosenblatt A Abbott M.H. Gourley L.M. Troncoso J.C. Margolis R.L. Brandt J. **Ross CA**. Predictors of neuropathological severity in 100 patients with Huntington's disease *Annals of Neurology* Oct; 54(4):488-93. (2003).
- Aylward EH, Sparks BF, Feild KM, Yallapragada, V., Shpritz, B.D., Rosenblatt, A., Brandt, J., Gourley, L.M., Liang, K., Zhou, H., Margolis, R.L., **Ross, CA**. The onset and rate of striatal atrophy in preclinical Huntington's disease. *Neurology* 2004 (In press).
- Reading SAJ, Dziorny AC, Peroutka LA, Schreiber M, Gourley, LM, Yallapragada V, Rosenblatt A, Margolis RL, Pekar JJ, Pearlson GD, Aylward E, Brandt J Bassett SS, **Ross CA**, Functional brain changes in pre-symptomatic Huntington's disease. *Ann Neurol* 2004 Jun;55(6):879-83.
- Schilling G, Savonenko AV, Coonfield ML, Morton JL, Vorovich E, Gale A, Neslon C, Chan N, Eaton M, Fromholt D, **Ross CA**, Borchelt DR. Environmental, pharmacological, and genetic modulation of the HD phenotype in transgenic mice. *Exp Neurol* 2004 May;187(1):137-49.
- Liani E, Eyal A, Avraham E, Shemer R, Szargel R, Berg D, Bornemann A, Riess O, **Ross CA**, Rott R, Engelender S. Ubiquitylation of synphilin-1 and alpha-synuclein by SIAH and its presence in cellular inclusions and Lewy bodies imply a role in Parkinson's disease. *Proc Natl Acad Sci USA* 2004 Apr 13;101(15):5500-5.
- Ross CA**, Poirier MA. Protein Aggregation and Neurodegenerative disease. (Review) *Nature Medicine* Neurodegeneration Supplement S10-S17 (2004).
- Ross CA**. Huntington's disease: New paths to pathogenesis. (Preview) *Cell* 118, 4-7 (2004).