

## CURRICULUM VITAE

- EDUCATION:**
- 1978-1982 Dickinson College  
Carlisle, Pennsylvania  
B.S. *cum laude* (Biology), 1982
- 1984-1986 Albany Medical College  
Albany, New York
- 1986-1988 University of Nebraska College of Medicine  
Omaha, Nebraska M.D., 1988
- LICENSURE  
& CERTIFICATION:**
- 1992 Medical Licensure, State of Maryland  
Certificate #D43774 (currently inactive)
- 1992 Diplomate, American Board of  
Pathology (Anatomic Pathology)  
#92-485 of 12/04/1992
- 1995 Special Qualification in Neuropathology  
American Board of Pathology  
#SQ-95-054 of 05/18/1995
- 1998 Medical Licensure, State of New Mexico  
Certificate # 98-220 (currently inactive)
- 2004 Medical Licensure, State of Tennessee  
Certificate # MD0000039217 (Active)
- ACADEMIC CAREER:**
- 1988-1991 Resident, Anatomic Pathology  
Department of Pathology  
Dartmouth-Hitchcock Medical Center  
Lebanon, New Hampshire
- 1991-1992 Chief Resident, Anatomic Pathology  
Department of Pathology  
Dartmouth-Hitchcock Medical Center
- Instructor, Dartmouth Medical School  
Hanover, New Hampshire
- 1992-1993 Pathology Resident and Clinical Fellow  
Neuropathology Laboratory  
Department of Pathology  
The Johns Hopkins University School of Medicine  
Baltimore, Maryland
- 1993-1996 Clinical and Research Fellow  
Neuropathology Division  
Department of Pathology  
The Johns Hopkins University School of Medicine

1996-1998    Instructor, Neuropathology Division  
                 Department of Pathology  
                 The Johns Hopkins University School of Medicine

                 Active Staff, Pathology  
                 The Johns Hopkins Hospital  
                 Baltimore, Maryland

1998-2004    Assistant Professor  
                 Director of Neuropathology  
                 Department of Pathology  
                 University of New Mexico School of Medicine  
                 Albuquerque, New Mexico

2004-         Associate Professor  
                 Director of Neuropathology  
                 Division of Neuropathology  
                 Department of Pathology  
                 Vanderbilt University Medical Center  
                 Nashville, Tennessee

<b>HONORS:</b>	1995	Honorable Mention for the Moore Award 71st Annual Meeting, San Antonio, Texas American Association of Neuropathologists
	1998; 1999; 2000; 2001	Dean's Award of Distinction University of New Mexico School of Medicine Albuquerque, New Mexico
<b>MEMBERSHIPS:</b>	1988- 1995-	College of American Pathologists American Association of Neuropathologists
<b>TEACHING:</b>	1980-1982	Teaching Assistant, Department of Biology Dickinson College
	1988-1991	Teaching Assistant and Clinical-Pathological Correlation Instructor, Department of Pathology Dartmouth Medical School
	1991-1992	Instructor in Pathology, Department of Pathology Dartmouth Medical School
	1992-1998	Laboratory Leader, Neurology/Neuropathology Course, Second Year Medical Students; Pathology and Neurology Resident Teaching; Clinical- Pathological Correlation Case Presentations, Grand Rounds, Department of Neurology The Johns Hopkins University School of Medicine
	1998-2004	Neuropathology Portion of Neurosciences Block Phase I (first year) medical students; Neuropathology Lectures Phase II (third year) medical students University of New Mexico School of Medicine
	1998-2004	Director of Neuropathology Rotation, Residents of Departments of Pathology, Neurology, Radiology, and Neurosurgery; medical students; post- sophomore fellows; forensic fellows University of New Mexico School of Medicine
	2004-	Director of Neuropathology Rotation, Residents of Departments of Pathology, Neurology, Radiology, and Neurosurgery; medical students Vanderbilt University School of Medicine

<b>CLINICAL SERVICE:</b>	1992-1998	Autopsy Neuropathology Service, Attending privileges; Weekly Brain Cutting Conference Department of Pathology The Johns Hopkins University School of Medicine
	1992-1996	Monthly Brain Cutting Conference Departments of Neurology and Pathology The Johns Hopkins Bayview Medical Center
	1994-1996	Surgical Neuropathology Outside Consult Service (Dr. Peter C. Burger) Neuropathology Division, Department of Pathology The Johns Hopkins University School of Medicine
	1994-1998	Neuropathologist, Neuropathology Core Research Program Without Walls for Huntington's Disease, Department of Psychiatry (Dr. Christopher A. Ross) The Johns Hopkins University School of Medicine
	1995-1998	Neuropathologist, Neuropathology Core AIDS Dementia Program Project (Dr. Justin McArthur) Department of Neurology The Johns Hopkins University School of Medicine
	1996-1998	Neuropathologist Parkinson's Disease Study Group (Dr. Stephen Reich) Department of Neurology The Johns Hopkins University School of Medicine
	1998-2004	Director of Neuropathology Weekly Neuropathology Gross Conference; Monthly Surgical Neuropathology Conference; Director, Neuropathology Laboratory University of New Mexico School of Medicine
	2004-	Director of Neuropathology Surgical Neuropathology Service Weekly Neuropathology Gross Conference Director, Neuropathology Laboratory Vanderbilt University School of Medicine

CLINICAL &  
RESEARCH INTERESTS:

Surgical and autopsy neuropathology  
Autopsy pathology/Pediatric pathology  
Mitochondrial DNA mutations in aging and disease  
Cavernous angiomas and vascular malformations  
Murine transgenic models of neurodegenerative diseases  
Triplet repeat disorders (Huntington's disease;  
Oculopharyngeal Muscular Dystrophy)

TRAINEES:

Ellen M. Deibert, visiting 4th-year medical  
student, Temple University School of Medicine,  
Philadelphia, Pennsylvania, October-November, 1992

Dean Havlik, MD, fifth year Pathology resident,  
acting Neuropathology Fellow, July 1999-June 2000

Michael Markey, MD, fifth year Pathology resident,  
acting Neuropathology Fellow, July 2000-June 2001

Christopher Happy, MD, fourth year Pathology resident,  
acting Neuropathology Fellow, July 2001-June 2002

Wieslawa Tlomak, MD, fourth year Pathology resident,  
acting Neuropathology Fellow, July 2003-June 2004

**GRANT SUPPORT**

<b>From</b>	<b>To</b>	<b>Institution/#</b>	<b>Title</b>	<b>Role</b>
1996	1998	NS1 P50 NS 26643	Research Center for AIDS Dementia	Investigator
1996	1999	NIA 2 P50 AG 05146	Aging, Neurodegenerative Disease, and Animal Models (Alzheimer's Disease Research Center)	
			Core C: Neuropathology	Investigator
1996	1998	NIH 5 P01 NS 16735	Research Program Without Walls for Huntington's Disease (Program Project)	
			Neuropathology Core	Investigator
1998				Consultant
1997	1998	Cal Ripken/Lou Gehrig Fund For Neuromuscular Research of the JHU Dept. of Neurology	Mitochondrial Genome and Degeneration in Amyotrophic Lateral Sclerosis	P.I.
1998	1999	Hereditary Disease Foundation	Intranuclear Inclusions: A Novel Marker of Huntington's Disease	P.I.
1998	2001	Mentored Independent Scientist Training Award 1 KO8 NS 02027 NINDS	Mitochondrial Dysfunction in Neurodegenerative Disorders	P.I.
2000	2003	Hereditary Disease Foundation	Intranuclear Inclusions: A Novel Marker of Huntington's Disease II	P.I.
2001	2003	Muscular Dystrophy Association	Characterization of Intranuclear Inclusions in Oculopharyngeal Muscular Dystrophy	P.I.
2001	2005	NIH NCRR	Integrative Program in CNS Pathophysiology Research (IdeA; COBRE)	
			Project Four	Investigator

## BIBLIOGRAPHY

### *Refereed Publications*

1. Kitt CA, Price DL, Struble RG, Cork LC, Wainer BH, **Becher MW** and Mobley WC: Evidence for cholinergic neurites in senile plaques. *Science* 226: 1443-1445, 1984.
2. **Becher MW** and Marin-Padilla M: Intrinsic laryngeal muscle regeneration following endotracheal intubation. *Pediatr. Pathol.* 12: 155-166, 1992.
3. **Becher MW**, Rockenmacher S and Marin-Padilla M: Total anomalous pulmonary venous connection: persistence and atresia of the common pulmonary vein. *Pediatr. Cardiol.* 13: 187-189, 1992.
4. Merguerian PA, Seremetis G and **Becher MW**: Hypospadias repair using laser welding of ventral skin flap in rabbits: comparison with sutured repair. *J. Urol.* 148: 667-670, 1992.
5. **Becher MW**: Anomalous right coronary artery associated with sudden death: an example of a neural crest migration defect. *Hum. Pathol.* 23: 1182-1184, 1992.
6. Marszalek JR, Williamson TL, Lee MK, Xu Z, Hoffman PN, **Becher MW**, Crawford TO and Cleveland DW: Neurofilament subunit NF-H modulates axonal diameter by selectively slowing neurofilament transport. *J. Cell Biol.* 135: 711-724, 1996.
7. Bao J, Sharp AH, Wagster MV, **Becher MW**, Schilling G, Ross CA, Dawson VL and Dawson TM: Expansion of poly-glutamine repeat in huntingtin leads to abnormal protein interactions involving calmodulin. *Proc. Natl. Acad. Sci. USA* 93: 5037-5042, 1996.
8. Bruijn LI, **Becher MW**, Lee MK, Anderson KL, Jenkins NA, Copeland NG, Sisodia SS, Rothstein JD, Borchelt DR, Price DL and Cleveland DW: ALS-linked SOD1 mutant G85R mediates damage to astrocytes and promotes rapidly progressive disease with SOD1-containing inclusions. *Neuron* 18: 327-338, 1997.
9. Wong PC, Zheng H, Chen H, **Becher MW**, Sirinathsinghji DJS, Trumbauer ME, Chen HY, Price DL, Van der Ploeg LHT and Sisodia SS: Presenilin 1 is required for Notch1 and Dll1 expression in the paraxial mesoderm. *Nature* 387: 288-292, 1997.
10. **Becher MW**, Rubinsztein DC, Leggo J, Wagster MV, Stine OC, Ranen NG, Franz ML, Abbott MH, Sherr M, MacMillan JC, Barron L, Porteous M, Harper PS and Ross CA: Dentatorubral and pallidoluysian atrophy (DRPLA): clinical and neuropathological findings in genetically confirmed North American and European pedigrees. *Mov. Disord.* 12: 519-530, 1997.
11. Lee RR, **Becher MW**, Benson ML and Rigamonti D: Brain capillary telangiectasia: MR imaging appearance and clinicohistopathologic findings. *Radiology* 205: 797-805, 1997.

12. Bruijn LI, Beal MF, **Becher MW**, Schulz JB, Wong PC, Price DL and Cleveland DW: Elevated free nitrotyrosine levels, but not protein-bound nitrotyrosine or hydroxyl radicals, throughout amyotrophic lateral sclerosis (ALS)-like disease implicate tyrosine nitration as an aberrant in vivo property of one familial ALS-linked superoxide dismutase 1 mutant. *Proc. Natl. Acad. Sci. USA* 94: 7606-7611, 1997.
13. Borchelt DR, Wong PC, **Becher MW**, Pardo CA, Lee MK, Xu ZS, Thinakaran G, Jenkins NA, Copeland NG, Sisodia SS, Cleveland DW, Price DL and Hoffman PN: Axonal Transport of Mutant Superoxide Dismutase 1 and Focal Axonal Abnormalities in the Proximal Axons of Transgenic Mice. *Neurobiology of Disease* 5: 27-35, 1998.
14. Meltzer CC, Wells SW, **Becher MW**, Flanagan KM, Oyler GA, Lee RR. AIDS-related MR hyperintensity of the basal ganglia. *Am J Neuroradiol* 19: 83-89, 1998.
15. **Becher MW**, Kotzuk JA, Sharp AH, Davies SW, Bates GP, Price DL and Ross CA: Intranuclear Neuronal Inclusions in Huntington's Disease and Dentatorubral and Pallidolusian Atrophy: Correlation between the Density of Inclusions and IT15 CAG Triplet Repeat Length. *Neurobiology of Disease* 4: 387-397, 1998.
16. **Becher MW** and Ross CA: Intranuclear Neuronal Inclusions in DRPLA. *Movement Disorders* 13: 852-853, 1998.
17. Price DL, Wong PC, **Becher MW**, Bruijn LI, Rothstein JD and Borchelt DR: Familial Amyotrophic Lateral Sclerosis and Transgenic Models. *Neurosci. News* 1: 21-27, 1998.
18. Rosenblatt A, Ranen NG, Rubinsztein DC, Stine OC, Margolis RL, Wagster MV, **Becher MW**, Rosser AE, Leggo J, Hodges JR, et al. Patients with features similar to Huntington's disease, without CAG expansion in huntingtin. *Neurology* 51(1):215-20, 1998.
19. **Becher MW**, Wills ML, Noll WW, Hurko O and Price DL: Kearns-Sayre Syndrome with Features of Pearson's Marrow-Pancreas Syndrome and a Novel 2905-BP Mitochondrial DNA Deletion. *Human Pathol.* 30: 577-581, 1999.
20. 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.* 8: 397-407, 1999.
21. Karpuj MV, Garren H, Slunt H, Price DL, Gusella J, **Becher MW**, Steinman L: Transglutaminase aggregates huntingtin into nonamyloidogenic polymers and its enzymatic activity increases in Huntington's disease brain nuclei. *Proc. Natl. Acad. Sci. USA.* 96: 7388-7393, 1999.
22. **Becher MW**, Kotzuk JA, Davis LE, Bear DG: Intranuclear inclusions in Oculopharyngeal

- Muscular Dystrophy contain poly(A) binding protein 2. *Ann. Neurol.* 48: 812-5, 2000.
23. Havlik DM, **Becher MW**, Nolte KN: Sudden death due to primary diffuse leptomeningeal gliomatosis. *J Forensic Sci.* 46:392-7, 2001.
  24. Havlik DM, Hart BL, **Becher MW**: Case of the month: 58 year old man with a temporal bone mass. *Brain Pathol.* 12(1):133-4, 2002 (published on-line July 2001).
  25. **Becher MW**, Morrison L, Davis LE, Maki WC, King MK, Bicknell JM, Reinert BL, Bartolo C, Bear DG: Oculopharyngeal Muscular Dystrophy in Hispanic New Mexicans. *JAMA* 286(19):2437-2440, 2001
  26. Karpuj MV, **Becher MW**, Springer JE, Chabas D, Pedotti R, Youssef S, Mitchell D, Steinman L: Prolonged survival and decreased abnormal movements in transgenic model of Huntington's disease, with administration of cystamine, a transglutaminase inhibitor. *Nature Med.* 8(2):143-149, 2002
  27. Washbourne P, Thompson PM, Carta M, Costa ET, Mathews JR, Lopez-Bendito G, Molnar Z, **Becher MW**, Valenzuela CF, Partridge LD, Wilson MC: Genetic ablation of the t-SNARE SNAP-25 distinguishes mechanisms of neuroexocytosis. *Nature Neurosci* 5:19-26, 2002
  28. Davis LE, **Becher MW**, Tlomak, W, Benson BE, Lee RR, Fisher EC: Persistent choreoathetosis in a fatal olanzapine overdose: drug kinetics, neuroimaging, and neuropathology. *Am. J. Psychiatry* 162: 28-33, 2005.

*Book Chapters/Reviews*

1. Price DL, **Becher MW**, Wong PC, Borchelt DR, Lee MK and Sisodia SS: Inherited neurodegenerative diseases and transgenic models. *Brain Pathol.* 6: 467-480, 1996.
2. Price DL, Wong PC, Pardo CA, Borchelt DR, Lee MK, **Becher MW**, Griffin JW, Cork LC, Cleveland DW, Jenkins NA, Copeland NG and Sisodia SS: Motor neuron disease and animal models. In: *Amyotrophic Lateral Sclerosis. Progress and Perspectives in Basic Research and Clinical Application.* Nakano I and Hirano A (eds), Amsterdam, Elsevier, 1996, pp 300-309.
3. Robitaille Y, Lopes-Cendes I, **Becher MW**, Rouleau G, and Clark AW. The neuropathology of CAG repeat diseases: review and update of genetic and molecular features. *Brain Pathol.* 7: 901-926, 1997.
4. Ross, CA, **Becher MW**, Colomer V, Engelender S, Wood JD, and Sharp AH. Huntington's disease and dentatorubral-pallidoluysian atrophy: proteins, pathogenesis and pathology. *Brain Pathol.* 7: 1003-1016, 1997.
5. Borchelt, DR, Wong PC, **Becher MW**, Bruijn LI, Cleveland DW, Copeland NG, Culotta

- VC, Jenkins NA, Lee MK, Pardo CA, Price DL, Sisodia SS, and Xu ZS. Perspectives on the mechanisms of familial amyotrophic lateral sclerosis caused by mutations in superoxide dismutase 1. In: *Metals and Oxidative Damage in Neurological Disorders*, edited by J.R. Connor. New York: Plenum Press, 1997, p.295-314.
6. Ross CA, Margolis RL, **Becher MW**, Wood JD, Engelender S and Sharp AH: Pathogenesis of Polyglutamine Neurodegenerative Diseases: Toward a Unifying Mechanism. In: *Genetic Instabilities and Hereditary Neurological Diseases*. Wells RD and Warren ST (eds), San Diego, Academic Press, 1998, pp761-776.
  7. Ross CA, **Becher MW** and Koliatsos VE: Huntington's Disease and DRPLA: Two Glutamine Repeat Disease. In: *Cell Death and Disease of the Nervous System*. Koliatsos VE and Ratan RR (eds), Totowa (New Jersey), Humana Press, 1999, pp477-496.
  8. Bruijn LI, Williamson TL, **Becher MW**, Price DL, Cleveland DW. Neurofilament and mutant SOD1-mediated motor neuron degeneration: Insights from transgenic mouse models. In: *Amyotrophic Lateral Sclerosis*. Brown RH, Meininger V, Swash M(eds), London, Blackwell Science Inc., 1999, pp 341-362
  9. Karpuj MV, **Becher MW**, Steinman L: Evidence for a role for transglutaminase in Huntington's disease and the potential therapeutic implications. *Neurochem. Int.* 40(1): 31-36, 2002

*Abstracts/Presentations*

1. Kitt CA, Hedreen JC, Bacon SJ, **Becher MW**, Salvaterra PM, Levey AI, Wainer BH and Price DL: Choline acetyltransferase-containing neurons in the primate basal forebrain and striatum: immunocytochemical studies. *Soc. Neurosci. Abstr.* 9: 966, 1983.
2. Kitt CA, Price DL, Struble RG, Cork LC, Walker LC, Mobley WC, **Becher MW**, Joh TH and Wainer BH: Transmitter specificity of neurites in senile plaques of aged monkeys. *Soc. Neurosci. Abstr.* 10: 271, 1984.
3. Kitt CA, Mobley WC, Struble RG, Cork LC, Walker LC, **Becher MW**, Joh T and Price DL: Contribution of catecholaminergic systems to neurites in plaques of aged primates. *Ann. Neurol.* 16: 118, 1984.
4. **Becher MW**, Brown CF, Charnes L and Burger PC: Nonarterial central nervous system vascular malformations in the three-generation family. *Neurology* 44 (Suppl. 2): A127, 1994.
5. **Becher MW**, Pardo CA, Brown CF, Reich SG and Crain BJ: Generalized variant of Pick's disease with silver negative inclusions. *Brain Pathol.* 4: 515, 1994.

6. **Becher MW**, Noll WW, Hurko O and Price DL: Novel 2905-bp mitochondrial DNA deletion in Kearns-Sayre syndrome. *J. Neuropathol. Exp. Neurol.* 54: 453, 1995.
7. Borchelt DR and **Becher MW**. Influence of strain background on the clinical and neuropathological appearance of motor neuron disease in transgenic mice expressing superoxide dismutase I with mutations linked to familial amyotrophic lateral sclerosis. *Mol. Biol. Cell.* 6: 328a, 1995.
8. Wills ML, **Becher MW**, Rigamonti D, Naff N, Lee R and Burger PC: The spectrum of vascular formations and features in cavernous angiomas resected at the Johns Hopkins Hospital from 1984-1994. *J. Neuropathol. Exp. Neurol.* 55 (5): 664, 1996.
9. Bruijn LI, **Becher MW**, Lee MK, Cleveland DW and Price DL: Characterization of intracytoplasmic abnormalities in low expressor SOD1 transgenic mice with motor neuron disease. *J. Neuropathol. Exp. Neurol.* 55 (5): 632, 1996.
10. **Becher MW**, Wagster MV, Stine OC, Ranen NG and Ross CA: Dentato-rubral and pallido-luysian atrophy (DRPLA): microscopic findings in four North American cases with genetically confirmed pedigrees. *J. Neuropathol. Exp. Neurol.* 55 (5): 637, 1996.
11. Kotzuk JA, **Becher MW**, Sharp AH, Ross CA and Wagster MV: Reactive gliosis in Huntington's disease as demonstrated with [<sup>3</sup>H] PK11195 binding. *Soc. Neurosci. Abstr.* 22: 226, 1996.
12. **Becher MW**, Kotzuk JA, Wagster MV, Ranen NG, Kitt CA, Price DL and Ross CA: Alzheimer's disease changes in Huntington's disease. *Soc. Neurosci. Abstr.* 22: 227, 1996.
13. Bao J, Sharp AH, Persichetti E, Shilling G, Wagster MV, **Becher MW**, Gusella J, MacDonald M, Ross CA, Dawson VL and Dawson T: Protein-protein interactions of Huntington involve calmodulin. *Soc. Neurosci. Abstr.* 22: 1894, 1996.
14. Mouton PR, **Becher MW**, Bakhos NA, Wagster MV, Rosenblatt A, Ross CA and Price DL: Clinicopathological evidence for dementia independent of cortical atrophy in Huntington's disease. *Soc. Neurosci. Abstr.* 22: 198, 1996.
15. **Becher MW**, Kotzuk JA, Wagster MV, Rosenblatt A, Kitt CA, Price DL and Ross CA: Amyloid deposits and neuritic plaques in Huntington's disease. *J. Neuropathol. Exp. Neurol.* 56: 612, 1997.
16. Bruijn LI, Beal MF, **Becher MW**, Schulz JB, Wong PC, Price DL and Cleveland DW: Elevated free nitrotyrosine levels implicate tyrosine nitration as an aberrant property of one familial ALS-linked SOD1 mutant. *Soc. Neurosci. Abstr.* 23: 2233, 1997.

17. **Becher MW**, Kotzuk JA, Price DL and Ross CA: Marinesco Bodies are Ubiquitinated Intranuclear Inclusions Which Resemble the Inclusions Found in Triplet Repeat Disorders. *J. Neuropathol. exp. Neurol.* 57: 494, 1998.
18. Wills ML, **Becher MW**, Ali SI. A cytopathologic study of primary pediatric central nervous system neoplasms. *Mod Pathol.* 11: 251, 1998
19. **Becher MW**. Amyloid-Like Protein Configurations Are Not Detectable In Huntington's Disease Intranuclear Inclusions By Histochemistry. *J. Neuropath. Exp.* 58: 548, 1999.
20. Hart AP, Nashelsky MB, **Becher MW**. Morphological findings in infants and children with a history of shaken baby syndrome and delayed death. *J. Neuropath. Exp.* 58: 521, 1999.
21. **Becher MW**, Kotzuk JA, Davis LE and Bear DG: Intranuclear inclusions in oculopharyngeal muscular dystrophy contain poly(A) binding protein 2 (PABP2). *J. Neuropath. Exp.* 59: 456, 2000.
22. Havlik DM and **Becher MW**: Optimization of microwave antigen retrieval for immunocytochemistry on formalin fixed, paraffin embedded neuropathological material. *J. Neuropath. Exp.* 59: 431, 2000.
23. Wolz MR and **Becher MW**: Anti-Ri Associated paraneoplastic opsoclonus in a patient with breast cancer. *J. Neuropath. Exp.* 59: 426, 2000.
24. Washbourne PE, Costa ET, Thompson PM, Mathews JR, **Becher MW**, Bark C, Partridge D, Valenzuela CF, Wilson MC: Targeted mutations of Snap-25 distinguish vesicular trafficking in neurotransmission and development. *Soc. Neurosci. Abstr.* 26: 301, 2000.
25. Colomer V, Katzen S, Mez J, Kurtis N, Schilling G, **Becher MW**, Trottier Y, Paulson H, Borchelt D, Kakizuka A, Ross CA: Mouse model for Machado Joseph disease with cleavage of mutant of ataxin-3. *Soc. Neurosci. Abstr.* 26: 542, 2000.
26. Karpuj MV, **Becher MW**, Steinman L: Cystamine, a competitor for transglutaminase, slows the progression of Huntington's disease in a transgenic mouse model without altering formation of nuclear inclusions. *Soc. Neurosci. Abstr.* 26: 1298, 2000.
27. **Becher MW**: Distribution and frequency of intranuclear inclusions in the CNS and systemic organs of a Huntington's disease transgenic mouse model. *J. Neuropathol. Exp. Neurol.* 60:558, 2001.
28. Markey MA, Hjelle BL, **Becher MW**: Immunocytochemical localization of hantavirus in the CNS of patients with hantavirus cardiopulmonary syndrome. *J. Neuropathol. Exp. Neurol.* 60: 509, 2001.
29. Markey MA, Havlik DM, Bollinger BK, Zumwalt RE, **Becher MW**: Integrated forensic and academic neuropathology in a regionalized autopsy center. *National Association of Medical*

Examiners (NAME) annual meeting, October 2001, Richmond, VA.

30. **Becher MW**, Miller KL, Karlsson J, Howard TA, Gould PV, Bouchard J-P, Bear DG:  
Intranuclear inclusions in pharyngeal muscles of Oculopharyngeal Muscular Dystrophy. *J. Neuropathol. Exp. Neurol.* 62: 565, 2003.