Department/School: Medicine April 2006

CURRICULUM VITAE

a) NAME:

PARK, DAVID S., Associate Professor
Member of School of Graduate Studies and Research: yes

b) DEGREES:

Ph.D., Biochemistry, Rutgers University, New Brunswick, NJ, 1994
B.Sc., Cellular and Molecular Biology, University of Michigan, Ann Arbor, MI, 1989

c) EMPLOYMENT HISTORY:

2003-Present	Co-Director, Parkinsons Research Consortium
2003-Present	Associate Professor, Dept of Medicine, University of Ottawa
2002-Present	Sr. Scientist, Neurosciences of the OHRI
1998-2003	Assistant Professor, Dept. of Medicine, University of Ottawa

d) HONOURS:

2006-2011	Career Scientist Award, Heart and Stroke Foundation Ontario
2005	Friedman Award, Parkinson Society Canada
2005	Researcher of the Year, Ottawa Health Research Institute
2003	Young Researcher Award, University of Ottawa
2003	Freidman Award, Parkinson Society Canada
2002	Faculty of Medicine Young Investigator Award
2002	Eldon Tanner/Ruth Tanner Walker Award, Parkinson Society Canada
2000	Michael Smith Promising Scientist Award, Ottawa Life Sciences Council
1999 – 2001	Premier's Research Excellence Award, Ontario Prov. Government
1999	Canadian Foundation for Innovation New Opportunities Award
1999 – 2004	MRC Scholarship
1999 – 2004	MRC/PMAC Chair
1998 – 2004	GlaxoWellcome Award
1995 – 1998	Aaron Diamond Post-doctoral Fellowship
1994 – 1995	NIH Post-doctoral Fellowship
1989 – 1991	Rutgers/UMDNJ Molecular and Cell Biology Core Fellowship
1988	James B. Angell Scholarship
1986	Regents Scholarship
1985	Branstrom Prize for Academics

e) SCHOLARLY AND PROFESSIONAL ACTIVITIES:

Granting Agencies

2006	CIHR CBM Panel, invited
2006	Michael J. Fox Grant Panel

2002-2005	CIHR Panel Neuroscience B
2002-present	Alberta Heritage Foundation Scholarship Committee
2002	Michael J. Fox Grant Panel
2000	CIHR Review Panel, Cancer A

University of Ottawa/OHRI Committees

2006	Scientific Review Committee/OHRI
2005-present	Co-leader. Canadian Foundation for Innovation grant committee
2005-present	Neuroscience Graduate Studies Committee
2005	University of Ottawa Faculty Award Committee
2004-2005	Neuroscience East Seminar Organizer
2003-present	Co-chair; Parkinson's Research Consortium
1999-2004	Animal Care Committee, University of Ottawa

Other committees:

2000-2001	Planning and Priorities Committee, Canadian Stroke Network (Theme III)

Editorial Responsibilities

2001-2005	Member, Editorial Board, Journal of Biological Chemistry

Memberships/organizations:

2003-present	Co-director, Parkinsons Research Consortium
2002-present	Centre for Brain Recovery
2002-present	Canadian Stroke Network
2001-2005	American Society for Biochemistry and Molecular Biology
1995-present	Society for Neuroscience

External reviewer:

Grant panels

CIHR

Heart and Stroke Foundation

NSERC

Journals

-Journal of Neuroscience

-J. Biol. Chem.

-Proceeding of National Acad. Sciences

-J. Neurochemistry

j) PUBLICATIONS:

1) Life-time summary (count) according to the following categories:

- Books authored…….. 0
- Books edited…….. 0
- Chapters in books…….. 2
- Papers in refereed journals…… 63
- Papers in Press 1
- Submitted papers 2
- Papers in refereed conference proceedings…… 0
- Major invited contributions (invited speaking engagements)……..…… 33
- Abstracts……..……..79
- Others (workshops presented)…… 0

2) Details for past seven (7) years (same categories as above):

Chapters in Books:

1. Greene LA, Cunningham M, Farinelli SE and **Park DS**: Methodologies for the culture and experimental use of the PC12 rat pheochromocytoma cell line. In: Culturing Nerve Cells, G. Banker, K. Goslin, eds., MIT Press, Cambridge, MA (1999).

2. Crocker, S.J., Smith, PD, **Park,DS** Calpain Proteolysis and the etiology of Parkinsons's disease: An emerging hypothesis In: Proteases in the Brain, U. Lendeckel, NM Hooper, eds., Springer Press, New York, NY (2005).

Papers in Refereed Journals:

1. **Park DS**, Poretz RD, Stein S, Nora R and Manowitz P: Association of alcoholism with the N-glycosylation polymorphism of pseudodeficient human arylsulfatase A**.** Alcohol Clin. Exp. Res. 20: 228-233 (1996).
2. **Park DS**, Manowitz P, Stein S and Poretz RD: Structural characterization of variant forms of arylsulfatase A that associate with alcoholism. Alcohol Clin. Exp. Res. 20: 234-239 (1996).
3. **Park DS**, Poretz RD, Ricketts MH and Manowitz P: Arylsulfatase A: relationship of genotype to variant electrophoretic properties. Biochem. Genet. 34: 149-161 (1996).
4. Ricketts MH, Amsterdam JD, **Park DS**, Yang RS, Poretz RD, Zhang X, Fanale M, Baddoo A and Manowitz P: A novel arylsulfatase A protein variant and genotype in two patients with major depression. J. Affect. Disord. 40: 137-147 (1996).

5. Stefanis L, **Park DS**, Yan CY, Farinelli SE, Troy CM, Shelanski ML and Green LA: Induction of CPP32-like activity in PC12 cells by withdrawal of trophic support: dissociation from apoptosis. J.Biol. Chem. 271: 30663-30671 (1996).
6. **Park DS**, Stefanis L, Yan CYI, Farinelli SE and Greene LA: Ordering the cell death pathway: differential effects of BCL2, an ICE-family protease inhibitor, and other survival agents on JNK activation in serum/NGF-deprived PC12 cells. J. Biol. Chem. 271: 21898-21905 (1996).
7. **Park DS**, Farinelli SE and Greene LA: Inhibitors of cyclin-dependent kinases promote survival of post-mitotic neuronally differentiated PC12 cells and sympathetic neurons. J. Biol. Chem. 271: 8161-8169 (1996).
8. Farinelli SE, **Park DS** and Greene LA: Nitric oxide delays the death of trophic factor-deprived PC12 cells and sympathetic neurons by a cGMP-mediated mechanism. J. Neurosci. 16:2325-2334 (1996).
9. **Park DS**, Stefanis L and Greene LA: Ordering the multiple pathways of apoptosis. Trends Cardiovasc. Med. 7: 294-299 (1997).
10. **Park DS**, Levine B, Ferrari G and Greene LA: Cyclin dependent kinase inhibitors and dominant negative cyclin dependent kinase 4 and 6 promote survival of NGF-deprived sympathetic neurons. J. Neurosci. 17: 8975-8983 (1997).
11. **Park DS**, Morris EJ, Greene LA and Geller HM: G1/S cell cycle blockers and inhibitors of cyclin-dependent kinases suppress camptothecin-induced neuronal apoptosis. J. Neurosci. 17: 1256-1270 (1997).
12. **Park DS**, Morris EJ, Padmanabhan J, Shelanski ML, Geller HM and Greene LA: Cyclin-dependent kinases participate in death of neurons evoked by DNA-damaging agents. J. Cell Biol. 143: 457-467 (1998).
13. **Park DS**, Morris EJ, Stefanis L, Troy CM, Shelanski ML, Geller HM and Greene LA: Multiple pathways of neuronal death induced by DNA-damaging agents, NGF deprivation, and oxidative stress. J. Neurosci. 18: 830-840 (1998).

14. Padmanabhan J, **Park DS**, Greene L and Shelanski ML: Role of cell cycle regulatory proteins in cerebellar granule neuron apoptosis. J. Neurosci. 19(20): 8747-8756 (1999).
15. Stefanis L, **Park DS**, Friedman W and Greene LA: Caspase-dependent and independent death of camptothecin-treated embryonic cortical neurons. J. Neurosci. 19: 6235-6247 (1999).
16. Maroney AC, Finn JP, Bozyczko-Coyne D, O'Kane TO, Neff NT, Tolkovsky AM, **Park DS**, Yan CY, Troy CM and Greene LA: Cep1347 (KT7515), an inhibitor of JNK activation, rescues sympathetic neurons and neuronally differentiated PC12 cells from death evoked by three distinct insults. J. Neurochem. 73: 1901-1912 (1999).
17. Cregan SP, MacLaurin JG, Craig CG, Robertson GS, **Park DS** and Slack RS: Bax-dependent caspase-3 activation is a key determinant in p53-mediated apoptosis in neurons. J. Neurosci. 19(18): 7860-7869 (1999).
18. Giovanni A, Wirtz-Brugger F, Keramaris E, Slack RS and **Park DS**: Involvement of cell cycle elements, CDKs, pRb, and E2F/DP, in B-amyloid-induced neuronal death. J. Biol. Chem. 274(27): 19011-19016 (1999).
19. Giovanni A, Keramaris E, Morris EJ, Hou ST, O'Hare M, Dyson N, Robertson GS, Slack RS and **Park DS**: E2F1 mediates death of B-amyloid-treated cortical neurons in a manner independent of p53 and dependent on Bax and caspase 3. J. Biol. Chem. 275: 11553-11560 (2000).
20. **Park DS**, Morris EJ, Bremmer R, Keramaris E, Padmanabhan J, Rosenbaum M, Shelanski M, Geller HM and Greene LA: Involvement of retinoblastoma family members and E2F/DP complexes in the death of neurons evoked by DNA damage. J. Neurosci. 20: 3104-3114 (2000).
21. Keramaris E, Stefanis L, MacLaurin J, Harada N, Takaku K, Ishikawa T, Taketo MM, Robertson G, Nicholson DW, Slack RS and **Park DS**: Involvement of caspase 3 in apoptotic death of cortical neurons evoked by DNA damage. Mol. Cell. Neurosci. 15: 368-379 (2000).
22. Cregan SP, MacLaurin J, Gendron T, **Park DS**, Parks RJ, Graham FL, Morley P and Slack RS: Helper-dependent adenovirus vectors: their use as a gene delivery system to neurons. Gene Therapy 7: 1200-1209 (2000).
23. O'Hare MJ, Hou ST, Morris EJ, Cregan SP, Xu Q, Slack RS and **Park DS**: Induction and modulation of cerebellar granule neuron death by E2F1. J. Biol. Chem. 275: 25358-25364 (2000).
24. Ferguson K, Callaghan S, O'Hare M, **Park DS** and Slack RS: The RB-CDK4/6 signalling pathway is a critical checkpoint in neural precursor cycle regulation. J. Biol. Chem. 275: 33593-33600 (2000)
25. **Park DS**, Obeidat A, Giovanni A and Greene LA: Cell cycle regulators in neuronal death evoked by excitotoxic stress: implications for neurodegeneration and its treatment. Neurobiol. Aging 21: 771-781 (2000).
26. Osuga H, Osuga S, Wang F, Fetni R, Hogan MJ, Slack RS, Hakim AM, Ikeda J and **Park DS**: Cyclin-dependent kinases as a therapeutic target for stroke. Proc. Natl. Acad. Sci. (Track II) 97: 10254-10259 (2000).
27. Wang F, O'Hare MJ, **Park DS**: Cyclin-dependent kinases and stroke. Exp. Opin. Therap. Targets 5: 557-567 (2001).
28. Morris EJ, Keramaris E, Rideout HJ, Slack RS, Dyson NJ, Stefanis L and **Park DS**: Cyclin-dependent kinases and p53 pathways are activated independently and mediate Bax activation in neurons after DNA damage. J. Neurosci. 21(14): 5017-5026 (2001).
29. Crocker SJ, Wigle N, Liston P, Thompson CS, Lee CJ, Xu DG, Roy S, Nicholson DW, **Park DS**, MacKenzie A, Korneluk RG and Robertson GS: NAIP protects the nigrostriatal dopamine pathway in an intrastriatal 6-OHDA rat model of Parkinson's disease. Eur. J. Neurosci. 14(2): 391-400 (2001).
30. Simpson MTW, MacLaurin JG, Xu D, Ferguson KL, Vanderluit JL, Davoli MA, Roy S, Nicholson DW, Robertson GS, **Park DS** and Slack RS: Caspase-3 deficiency rescues peripheral nervous system defects in retinoblastoma nullizygous mice. J. Neurosci. 21(18): 7089-7098 (2001).
31. Fortin A, Cregan SP, MacLaurin JG, Kushwaha N, Hickman ES, Thompson CS, Hakim A, Albert PR, Cecconi F, Helin K, **Park DS** and Slack RS: APAF1 is a key transcriptional target for p53 in the regulation of neuronal cell death. J. Cell Biol. 155(2): 207-216 (2001).

32. Rideout HJ, Zang E, Yeasmin M, Gordon R, Jabado O, **Park DS** and Stefanis L: Inhibitors of trypsin-like serine proteases prevent DNA damage-induced neuronal death by acting upstream of the mitochondrial checkpoint and of p53 induction. Neurosci. 107(2): 339-352 (2001).
33. Crocker SJ, Lamba WR, Smith PD, Callaghan SM, Slack RS, Anisman H and **Park DS**: c-Jun mediates axotomy-induced dopamine neuron death in vivo. Proc Natl Acad Sci USA (Track II) 98(23): 13385-13390, (2001).
34. O'Hare M, Wang F and **Park DS**: Cyclin-dependent kinases as potential targets to improve stroke outcome. Pharmacology & Therapeutics 93:1-9, (2002).
35. Wang F, Corbett D, Osuga H, Osuga S, Ikeda J, Slack RS, Hogan MJ, Hakim AM and **Park DS**: Inhibition of cyclin dependent kinases improves CA1 neuronal survival and behavioral performance following global ischemia in the rat. J. Cereb. Blood Flow Metab. 22(2): 171-182, (2002).
36. Ferguson KL, Vanderluit J, Hebert J, MacIntosh C, Vooijs M, **Park DS**, Wallace V, McConnell SK and Slack RS: Conditional Rb mutation leads to enhanced Neurogenesis and aberrant development of the telencephalon. EMBO J. 21:3337-3346, (2002).
37. Bhakar AL, Tannis LL, Zeindler C, Russo MP, Jobin C, **Park DS**, MacPherson S and Barker PA: Constitutive nuclear factor-kB activity is required for central neuron survival. J. Neurosci 22(19): 8466-75 (2002).
38. Cregan SP, Fortin A, MacLaurin J, Callaghan SM, Cecconi F, **Park DS**, Kroemer G and Slack RS: Apoptosis Inducing Factor regulates caspase-independent neuronal cell death. J. Cell Biol. 158(3): 1-12, (2002).
39. Ghahremani MH, Keramaris E, Shree T,Xia Z, Davis RJ, Flavell R, Slack RS and **Park DS**: Interaction of the c-Jun/JNK pathway and cyclin dependent kinases in death of embryonic cortical neurons evoked by DNA damage. J. Biol. Chem. 277(38):35586-96 (2002).
40. Hou ST, Xie X, Baggley A, **Park DS**, Chen G and Walker T: Activation of the Rb/E2F1 pathway by the non-proliferative p38 MAP kinase during Fas (APO1/CD95)-mediated neuronal apoptosis. J. Biol. Chem. 277(50):48764-70 (2002).
41. Crocker SJ, Liston P, Anisman H, Lee CJ, Smith PD, Earl N, Thompson CS, **Park DS**, Korneluk RG and Robertson GS: Attenuation of MPTP-induced Neurotoxicity and Behavioural Impairment in NSE-XIAP Transgenic Mice. Neurobio. Dis. 12(2):150-161 (2003).
42. Rideout, HJ, **Park, DS**, Stefanis, L. Cyclin dependent kinase activity is required for death but not inclusion formation in cortical neurons following proteasomal inhibition J Neurosci. 23(4):1237-45.(2003).
43. Crocker SJ, Smith PD, Lamba WR, Melloni E, Callaghan SM, Slack RS, Grimm E, Robertson GS, Anisman H, Merali Z and **Park DS**: Calpains Mediate Dopamine Neuron Loss and Hypolocomotion in an MPTP Mouse Model of Parkinsons Disease: J. Neurosci. 23(10): 4081-91 (2003).
44. Sedarous M, Keramaris E, O'Hare M, Melloni E., Slack RS, Elce JS, Greer PA, and **Park DS**. Calpains mediate p53 activation and neuronal death evoked by DNA damage**.** J Biol Chem**.** 278(28):26031-8. (2003).
45. Keramaris E, Hirao A, Slack RS., Mak TW., and **Park DS.,** ATM can regulates p53 and neuronal death independent of Chk2 in response to DNA damage J. Biol. Chem. 278:37782-9 (2003).
46. Smith PD, Crocker SJ., Jackson-Lewis V., Jordan-Sciutto K., Hayley S., Callaghan S., Slack RS., Przedborski S, Anisman H., and **Park DS**. Cyclin-dependent kinase 5 (cdk5) is a mediator of dopaminergic neuron loss in an *in vivo* mouse model of Parkinson's disease. Proc. Nat. Acad Sci, USA (Track 11) 100:13650-5 (2003).
47. Smith P, O'Hare MJ, **Park DS**, Emerging Pathogenic Role for Cyclin Dependent Kinases in Neurodegeneration. Cell Cycle, 3(3):289-29148 (2004).
48. Hayley S, Crocker SJ, Smith P, Slack RS, Jackson-Lewis V, Przedborski S, Anisman H, and **Park DS.** Regulation of dopaminergic loss by FAS in an MPTP model of Parkinson's disease. J. Neurosci. 24(8):2045-53 (2004).
49. Aleyasin H, Iyirhiaro G, Callaghan S, Slack RS, and **Park DS.**, NF-kB modulates the p53 response

in neurons exposed to DNA damage. J. Neurosci., 24: 2963 - 2973 (2004).
50. Fortrin A, MacLaurin JG, Arbour N, Cregan SP, Kushwawa N, Callaghan SM, **Park DS**, Albert PR and Slack RS. The Proapoptotic Gene Sima is a Direct Transcriptional Target for the Tumor Suppressors P53 and E2F1. J Biol Chem.; 279(27):28706-14. (2004).
51. Vanderluit JL, Ferguson KL, Nikoletopoulou V, Parker, MH, Ruzhynsky V, Alexson, T, McNamara SM, MacLaurin JG, McIntosh WC, **Park, DS**, Rudniki, MA, Slack, RS. P107 regulates the expansion of stem cells in the brain through interactions with Notch 1 signalling. J Cell Biol., 166(6):853-63. (2004).
52. Smith PD, O'Hare MJ, **Park DS**. CDKs: taking on a role as mediators of dopaminergic loss in Parkinson's disease. Trends Mol Med. 10(9):445-51, 2004.
53. Cregan SP, Arbour N, MacLaurin JG, Callaghan SM, Fortin A, Cheung CC, Guberman DS, **Park DS**, Slack RS. P53 Activation domain I is essential for Puma upregulation and p53-mediated neuronal cell death. J Neurosci. 24(44):10003-12. (2004).
54. Kalia SK, Lee S, Smith PD, Liu L, Crocker SJ, Thorarinsdottir TE, Glover JR, Fon EA, **Park DS** and Lozano AM. BAG5 Inhibits Parkinson and Enhances Dopaminergic Neuron Degeneration. Neuron 44(6):931-45 (2004).
55. Keramaris E, Vanderluit JL, Bahadori M, Mousavi K, Davis RJ, Flavell R, Slack RS, **Park DS**. JNK3 deficiency protects neurons from axotomy induced death in vivo, through mechanisms independent of c-Jun phosphorylationJ. Biol. Chem. 280(2):1132-41.(2005).
56. Kim RH, Smith PD, Aleyasin H, Hayley S, Pownall S, Wakeman A, You-Ten AJ, Anisman H, ***Park DS**, Mak TW. DJ-1 Deficient Mice as a Model for Parkinson's Disease. *Co-corresponding author. Proc. Natl Acad Sci., USA . 102(14):5215-20. (2005).
57. Cheung CC, Melanson-Drapeau L, Cregan SP, Vanderluit JL, Ferguson KL, McIntosh WC, **Park DS**, Bennett SAL, Slack RS**.** AIF is a key factor in Neuronal Cell Death propagated by BAX-Dependent and BAX-Independent Mechanisms. J. Neurosci. 25(6):1324-34. (2005).
58. Tang X, Wang X, Gong X, Tong M, **Park DS**, Xia Z, Mao Z. Cyclin-dependent kinase 5 mediates neurotoxin-induced degradation of the transcription factor myocyte enhancer factor 2. J Neurosci. 25(19):4823-34. (2005).
59. Rashidian J, Iyirhiaro G, Aleyasin H, Vincent I, Callaghan S, Slack RS, During M, **Park DS**. Multiple cyclin-dependent kinases signals are critical mediators of ischemia/excitotoxic neuronal death *in vitro* and *in vivo.* Proc. Natl. Acad Sci., USA (Track II) 102(39):14080-5 (2005). (highlighted on Scicnce online, Sci, Aging Knowl Environ. Vol 2005, issue 38 pp.nf74, sept 21, 2005)
60. O'Hare, M.J., Kushwaha, N., Zhang, Y., Aleyassin, H., Callaghan, Slack, RS., Vincent, I., Albert, P., **Park, DS.** Differential Roles of Nuclear and Cytoplasmic Cdk5 in apoptotic and excitotoxic death. J. Neurosci. 25(39):8954-66 (2005)
(highlighted in issue of J. Neurosci)
61. Ni Z, Karaskow E, Yu T, Callaghan S, Der S, **Park DS**, Xu Z, Pattenden S, Bremner R. Apical Role for BRG1 IN Cytokine-Induced Promoter Assembly. Proc. Natl. Acad Sci., USA (Track II) 102(41):14611-6 (2005).
62. Crocker SJ, Hayley SP, Smith PD, Lamba WR, Callaghan SM, Slack RS, **Park DS**. Stress-Activated MAP Kinase Signaling in Nigral Dopamine Neurons Modifies Axotomy-Induced c-Jun Expressio and Neurodegeneration *in vivo.* J. Neurochem. 96(2):489-99 (2006).
63. Lamba, W., Munoz, DG, Prichett-Pejic, W., **Park, DS**, and Woulfe, J. MPTP induces intranuclear rodlet formation in mibrain dopaminergic neurons. Brain Res. 1066(1-2):86-91 (2005).
64. Smith PD, Mount MP, Shree R, Callaghan S, Slack RS, Anisman H Vincent I, Mao Z and **Park DS**. A calpain regulated p35/cdk5 complex plays a central role in dopaminergic neuron death *in vivo* through modulation of the transcription factor MEF2. J. Neurosci., 26(2):440-7 (2006)
65. Massa, PT., Aleyasin, H., **Park, DS**., Mao, X., Barger, SW., NFKappaB in neurons? The uncertainty principle in neurobiology. J, Neurochem 97:607-618. (2006)

Publications Submitted

1. Zhang, Y., O'Hare, MJ, Callaghan SM, Slack RS, and **Park DS,** The Chk1/Cdc25A Pathway as Activators of the Cell Cycle in Neuronal Death Induced by DNA Damage. J. Neurosci, (submitted)
2. Mount, MP., Lira, A., Grimes, DA., Smith P., Faucher S., Slack RS., Anisman H, Hayley, S., and **Park, DS**, Central nature of interferon-gamma in microglial mediated loss of dopaminergic neurons. J. Neurosci., (submitted)
3. Iyirhiaro, G.O., Brust , TB., Rashidian J., Galehdar Z., Phillips M., Slack, RS., MacVicar, M., **Park., DS** Combinatorial Treatment With Flavopiridol And Minocycline Protects Neurons From Global Ischemia. J. Cerebral Blood Flow and Metab (submitted).
4. Cheung, CC., Joza, N., Sennart, NA., McClellan, KA., Neruspiel, M., McMamara, S., MacLaurin, J., Rippstien, P., **Park, DS**., Shore, GC., McBride, HM., Penninger, JF., Slack, RS. Dissoiating the dual roles of AIF in maintaining mitochondrial structure and apoptosis. EMBO (submitted).
5. Jahani A., Cheung, EC., MacLaurn, JG., Fortin, A., Park, DS., McBride, H., Slack, RS Activation of mitochondrial fusion protects neurons against injury induced cell death. J. Neurosci. (submitted).

Major Invited Contributions (Invited Speaking Engagements):

1. Pfizer Pharmaceuticals, Groton, Connecticut (June 1996)
2. Society for Molecular Biology, Apoptosis and Neuronal Cell Death, Tubingen, Germany (September 1997)
3. Dept. of Physiology and Neurobiology, University of Connecticut, Storrs, CT (December 3, 1997)
4. Brain Research Conference, Snowbird, Utah (January 1998)
5. Hoechst Marion Roussel Inc., New Jersey (June 1998)
6. Smith Kline Beecham Symposium Apoptosis in Health and CNS Disease, King of Prussia, PA (November 1998)
7. Merck-Frosst, Montreal, Quebec (December 1998)
8. Montreal Neurological Institute, McGill University, Montreal, Quebec (June 1999)
9. Ottawa Hospital, General Campus – Neurology Grand Rounds – "Can the injured brain be repaired?" (January 2000)
10. 4th International Symposium on Medicinal Chemistry of Neurodegenerative Diseases, Cancun, Mexico (January 2000)
11. 43rd Annual Canadian Federation of Biological Societies, Ottawa, Ontario, Canada (June 2000)
12. International Symposium on Pharmacology of Cerebral Ischemia, Marburg, Germany (July 2000)
13. Amgen Institute, University of Toronto, Toronto, Ontario, Canada (March 2001)
14. Aventis, New Jersey (May 2001)
15. AT Children's Project, Tarrytown, NY (August 2001)
16. Department of Pathology, University of Washington (August 2001).
17. 1st International IPK Conference, Warsaw, Poland (September 2001).
18. University of British Columbia, CORD, Vancouver, BC (September 2001).
19. Queen's University, Kingston, ON (September 2001).
20. Case Western University, Dept. of Neuroscience, Cleveland, OH (October 2001).
21. Columbia University, Dept. of Neurology, New York, NY (January 2002).
22 XIVth World Congress of Pharmacology, San Francisco, CA (July, 2002).
23. University of Toronto, Toronto Western, Toronto, ON (October 2002).
24. Harvard University, Dept. of Neurology, Boston, MA (December 2002).
25. Cornell University, Dept of Neurology, NY, NY. (February 2003).
26. Brain '03 Congress, Calgary, Alberta (Jul 2003).
27. University of Alberta, Edmonton (December 2003).
28. p75 Neurotrophin Meeting, Madrid Spain (April 2004)
29. University of Lexington, Kentucky (September 2004).
30. Queens University, Kingston , ON (February 2004)

31 Teva Neuroscience meeting, Pheonix, AZ, USA (Feb 2005).
32. Society of Neurochemistry, Annual Meeting, Madison, WI, USA (July 2005)
33. GTC Bio – Therapeutic Strategies against Neurodegenerated Conditions –Boston . (Oct 2005)
34. University of British Columbia , Vancouver, Canada, (December 2005)

Abstracts:

1. Manowitz P, **Park DS**, Stein S and Poretz RD: Expression of variant arylsulfatase A in In Vitro cultured human fibroblasts. Alcohol: Clin. Exp. Res. 16: 400 (San Diego, CA, 1992).
2. Manowitz P, **Park DS**, Stein S and Poretz RD: Biochemical characterization of variant human fibroblast arylsulfatase A. Alcohol: Clin. Exp. Res. 17: 510 (San Antonio, TX, 1993).
3. **Park DS**, Manowitz P, Stein S and Poretz RD: Human fibroblast arylsulfatase A: structure, metabolism and cellular localization of variant forms. FASEB J. 7: 744 (San Diego, CA, 1993).
4. Ricketts MH, Amsterdam JD, **Park DS**, Yang RS, Poretz RD, Zhang X and Manowitz P: Molecular genetic characterization of a novel protein variant of arylsulfatase A discovered in patients with major depression. Amer. J. Hum. Genet., 55 supplement, A239 (Montreal, Quebec, Canada, 1994).
5. Ricketts MH, Amsterdam JD, **Park DS**, Poretz RD and Manowitz P: Molecular genetics of arylsulfatase A protein variants in depression. Third International Conference on Refractory Depression (Napa, CA, October, 1995).
6. Greene LA, Troy CM, Farinelli SE, **Park DS**, Yan CYI and Shelanski ML: Prevention of neuronal apoptosis induced by loss of trophic support or by oxidative stress. International Symposium on Oxidative Stress, Apoptosis and Brain Damage (Pittsburgh, PA, September 21-24, 1995).
7. Manowitz P, Ricketts M, **Park DS**, Stein S, Nora R and Poretz RD: The association of alcoholism with the N-glycosylation polymorphism of pseudodeficient arylsulfatase A. Alcohol Clin. Exp. Res. 19: 73A (Steamboat Springs, CO, 1995).
8. Manowitz P, **Park DS**, Poretz RD, Stein S, Nora R and Ricketts MH: Metachromatic leukodystrophy: A clue to alcoholism. Am. Psych. Assoc. Annual Meeting (Miami Beach, FL, 1995).
9. **Park DS**, Stefanis L, Yan CYI, Farinelli SE and Greene LA: Ordering the effects of BCL2, and ICE-family protease inhibitor, and other survival agents on c-Jun kinase activation in serum/NGF deprived PC12 cells. Society Neurosci. Abstr. 299.2 (Washington, DC, November 1996).
10. Morris EJ, **Park DS**, Greene LA and Geller HM: Cell cycle signals in apoptotic neuronal death. Society Neurosci. Abstr. 679.2 (Washington, DC, November 1996).
11. Stefanis L, **Park DS**, Yan CYI, Farinelli SE, Troy CM and Greene LA: Activation of CPP-32-like aspartase in naïve and neuronal PC12 cells undergoing apoptosis following withdrawal of trophic support. Society Neurosci. Abstr. 228.11 (Washington, DC, November 1996).
12. Greene LA, Stefanis L, Troy C, Shelanski M, **Park DS**, Farinelli S and Yan I: Regulation of neuronal survival and death. J. Neurol. Sci. 143: 197 (New York, NY, December 6-7, 1996).
13. **Park DS**, Stefanis L, Yan CYI, Farinelli SE and Greene LA: Differential pathways of death induced by trophic factor deprivation and DNA damaging agents. Association of American Cancer Research, Programmed Cell Death Meeting (New York, NY, October 1996).
14. Greene LA, Troy CM, Farinelli SE, **Park DS**, Yan I, Stefanis L and Shelanski ML: Pathways regulating neuronal cell death. Juan March Foundation (Madrid, Spain, July 1996).
15. Greene LA, **Park DS**, Shelanski ML, Stefanis L and Troy CM: Multiple pathways to neuronal death and survival. VA Meeting (Pacific Grove, California, December 1997).
16. **Park DS**, Levine B, Morris EJ, Geller HM and Greene LA: Involvement of cell cycle regulatory molecules in apoptosis of sympathetic neurons. Society Neurosci. (New Orleans, LA, November 1997).
17. Morris EJ, **Park DS**, Dreixler JC, Greene LA and Geller HM: Signal transduction of DNA damage-induced neuronal apoptosis. Society Neurosci. (New Orleans, LA, November 1997).

18. Romero AA, Morris EJ, **Park DS**, Roginski RS, Greene LA and Geller HM: Signal transduction of cortical death in the absence of astrocyte trophic support. Society Neurosci. (New Orleans, LA, November 1997).
19. Maroney A, Bozyczko-Coyne D, **Park DS**, Troy CM and Greene LA: CEP1347 rescues neuronally differentiated PC12 cells from death induced by three different types of apoptotic insult. Society Neurosci. (New Orleans, LA, November 1997).
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