

主な研究業績（古川芳明：Yoshiaki Furukawa）

A. 主要50論文 (Peer-Reviewed English Papers)

[IF = Impact Factor] [主要50論文のIF = 12.11 (average)]

1. Furukawa Y, Mizuno Y, Nishi K, Narabayashi H: A clue to the pathogenesis of dopa-responsive dystonia. *Ann Neurol* 37: 139-140, 1995 [IF = 11.274]
2. Furukawa Y, Shimadzu M, Rajput AH, Shimizu Y, Tagawa T, Mori H, Yokochi M, Narabayashi H, Hornykiewicz O, Mizuno Y, Kish SJ: GTP-cyclohydrolase I gene mutations in hereditary progressive and dopa-responsive dystonia. *Ann Neurol* 39: 609-617, 1996 [IF = 11.274]
3. Furukawa Y, Kish SJ, Bebin EM, Jacobson RD, Fryburg JS, Wilson WG, Shimadzu M, Hyland K, Trugman JM: Dystonia with motor delay in compound heterozygotes for GTP-cyclohydrolase I gene mutations. *Ann Neurol* 44: 10-16, 1998 [IF = 11.274]
4. Furukawa Y, Lang AE, Trugman JM, Bird TD, Hunter A, Sadeh M, Tagawa T, St George-Hyslop PH, Guttman M, Morris LW, Hornykiewicz O, Shimadzu M, Kish SJ: Gender-related penetrance and de novo GTP-cyclohydrolase I gene mutations in dopa-responsive dystonia. *Neurology* 50: 1015-1020, 1998 [IF = 11.8]
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6. Furukawa Y, Kish SJ: Influence of development and aging on brain biopterin: implications for dopa-responsive dystonia onset. *Neurology* 51: 632-634, 1998 [IF = 11.8]

7. Furukawa Y, Kish SJ: Dopa-responsive dystonia: recent advances and remaining issues to be addressed. *Mov Disord* 14: 709-715, 1999 [IF = 9.698]
8. Furukawa Y, Nygaard TG, Gütlich M, Rajput AH, Pifl C, DiStefano L, Chang LJ, Price K, Shimadzu M, Hornykiewicz O, Haycock JW, Kish SJ: Striatal biopterin, neopterin, and tyrosine hydroxylase protein reduction in dopa-responsive dystonia. *Neurology* 53: 1032-1041, 1999 [IF = 11.8]
9. Kish SJ, Kalasinsky KS, Furukawa Y, Guttman M, Ang L, Li L, Adams V, Reiber G, Anthony RA, Anderson W, Smialek J, DiStefano L: Brain choline acetyltransferase activity in chronic, human users of cocaine, methamphetamine, and heroin. *Mol Psychiatry* 4: 26-32, 1999 [IF = 13.437]
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11. Furukawa Y, Kish SJ, Lang AE: Scoliosis in a dopa-responsive dystonia family with a mutation of the GTP cyclohydrolase I gene. *Neurology* 54: 2187, 2000 [IF = 11.8]
12. Worsley JM, Moszczynska A, Falardeau P, Kalasinsky KS, Schmunk G, Guttman M, Furukawa Y, Ang L, Adams V, Reiber G, Anthony RA, Wickham D, Kish SJ: Dopamine D1 receptor protein is elevated in nucleus accumbens of human, chronic methamphetamine users. *Mol Psychiatry* 5: 664-672, 2000 [IF = 13.437]
13. Furukawa Y, Guttman M, Sparagana SP, Trugman JM, Hyland K, Wyatt P, Lang AE, Rouleau GA, Shimadzu M, Kish SJ: Dopa-responsive dystonia due to a large deletion in the GTP cyclohydrolase I gene. *Ann Neurol* 47: 517-520, 2000 [IF = 11.274]

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16. Kish SJ, Kalasinsky KS, Schmunk G, Furukawa Y, Guttman M, Ang L: Dopaminergic changes in human brain following acute exposure to gamma-hydroxybutyrate. *Neurology* 56: 1602-1603, 2001 [IF = 11.8]
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19. Furukawa Y, Kapatos G, Haycock JW, Worsley J, Wong H, Kish SJ, Nygaard TG: Brain biopterin and tyrosine hydroxylase in asymptomatic dopa-responsive dystonia. *Ann Neurol* 51: 637-641, 2002 [IF = 11.274]
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21. Furukawa Y, Vigouroux S, Wong H, Guttman M, Rajput AH, Ang L, Briand M, Kish SJ, Briand Y: Brain proteasomal function in sporadic Parkinson's disease and related disorders. *Ann Neurol* 51: 779-782, 2002 [IF = 11.274]

22. Furukawa Y, Rajput AH: Inherited myoclonus-dystonia: how many causative genes and clinical phenotypes? *Neurology* 59: 1130-1131, 2002 [IF = 11.8]
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24. Tong J, Ross BM, Schmunk GA, Peretti FJ, Kalasinsky KS, Furukawa Y, Ang LC, Aiken SS, Wickham DJ, Kish SJ: Decreased striatal dopamine D1 receptor-stimulated adenylyl cyclase activity in human methamphetamine users. *Am J Psychiatry* 160: 896-903, 2003 [IF = 19.242]
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26. Postuma RB, Furukawa Y, Rogaeva E, St George-Hyslop PH, Farrer MJ, Lang AE: Dopa-responsive dystonia presenting with prominent isolated bilateral resting leg tremor: evidence for a role of *parkin*? *Mov Disord* 18: 1069-1072, 2003 [IF = 9.698]
27. Guttman M, Kish SJ, Furukawa Y: Current concepts in the diagnosis and management of Parkinson's disease. *CMAJ* 168: 293-301, 2003 [IF = 16.859]
28. Tong J, Fitzmaurice PS, Ang LC, Furukawa Y, Guttman M, Kish SJ: Brain dopamine-stimulated adenylyl cyclase activity in Parkinson's disease, multiple system atrophy, and progressive supranuclear palsy. *Ann Neurol* 55: 125-129, 2004 [IF = 11.274]
29. Furukawa Y, Kish SJ, Fahn S: Dopa-responsive dystonia due to mild tyrosine hydroxylase deficiency. *Ann Neurol* 55: 147-148, 2004 [IF = 11.274]
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33. Tong J, Wong H, Guttman M, Ang LC, Forno LS, Shimadzu M, Rajput AH, Muentner MD, Kish SJ, Hornykiewicz O, Furukawa Y: Brain α -synuclein accumulation in multiple system atrophy, Parkinson's disease and progressive supranuclear palsy: a comparative investigation. *Brain* 133: 172-188, 2010 [IF = 15.255]
34. Kish SJ, Lerch J, Furukawa Y, Tong J, McCluskey T, Wilkins D, Houle S, Meyer J, Mundo E, Wilson AA, Rusjan PM, Saint-Cyr JA, Guttman M, Collins DL, Shapiro C, Warsh JJ, Boileau I: Decreased cerebral cortical serotonin transporter binding in ecstasy users: a positron emission tomography/[¹¹C]DASB and structural brain imaging study. *Brain* 133: 1779-1797, 2010 [IF = 15.255]
35. Nakamura S, Kitami M, Furukawa Y: Opalski syndrome: ipsilateral hemiplegia due to a lateral-medullary infarction. *Neurology* 75: 1658, 2010 [IF = 11.8]
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39. Tong J, Meyer JH, Furukawa Y, Boileau I, Chang LJ, Wilson AA, Houle S, Kish SJ: Distribution of monoamine oxidase proteins in human brain: implications for brain imaging studies. *J Cereb Blood Flow Metab* 33: 863-871, 2013 [IF = 6.96]

40. Kambe T, Takahashi Y, Furukawa Y: A mild form of adult-onset opsoclonus-myoclonus syndrome associated with antiglutamate receptor antibodies. *JAMA Neurol* 70: 654-655, 2013 [IF = 29.907]

41. Tong J, Fitzmaurice P, Furukawa Y, Schmunk GA, Wickham DJ, Ang L-C, Sherwin A, McCluskey T, Boileau I, Kish SJ: Is brain gliosis a characteristic of chronic methamphetamine use in the human? *Neurobiol Dis* 67: 107-118, 2014 [IF = 7.046]

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47. Tong J, Fitzmaurice PS, Moszczynska A, Mattina K, Ang LC, Boileau I, Furukawa Y, Sailasuta N, Kish SJ: Do glutathione levels decline in aging human brain? *Free Radic Biol Med* 93: 110-117, 2016 [IF = 8.101]
48. Furukawa Y, Rajput AH, Tong J, Tomizawa Y, Hornykiewicz O, Kish SJ: A marked contrast between serotonergic and dopaminergic changes in dopa-responsive dystonia. *Neurology* 87: 1060-1061, 2016 [IF = 11.8]
49. Tong J, Rathitharan G, Meyer JH, Furukawa Y, Ang LC, Boileau I, Guttman M, Hornykiewicz O, Kish SJ: Brain monoamine oxidase B and A in human parkinsonian dopamine deficiency disorders. *Brain* 140: 2460-2474, 2017 [IF = 15.255]
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for brain imaging studies. *J Cereb Blood Flow Metab* 40: 1061-1076, 2020 [IF = 6.96]

B. 主要10総説 (English Review Articles)

1. Furukawa Y, Nishi K, Kondo T, Mizuno Y, Narabayashi H: CSF biopterin levels and clinical features of patients with juvenile parkinsonism. *Adv Neurol* 60: 562-567, 1993
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3. Furukawa Y, Shimadzu, Hornykiewicz O, Kish SJ: Molecular and biochemical aspects of hereditary progressive and dopa-responsive dystonia. *Adv Neurol* 78: 267-282, 1998
4. Furukawa Y: Genetics and biochemistry of dopa-responsive dystonia: significance of striatal tyrosine hydroxylase protein loss. *Adv Neurol* 91: 401-410, 2003
5. Furukawa Y: Update on dopa-responsive dystonia: locus heterogeneity and biochemical features. *Adv Neurol* 94: 127-138, 2004
6. Furukawa Y, Guttman M, Kish SJ: Dopa-responsive dystonia. *Current Clinical Neurology: Movement Disorder Emergencies: Diagnosis and Treatment*, Frucht SJ, Fahn S, eds, Humana Press, Totowa, 209-229, 2005
7. Furukawa Y, Guttman M, Nakamura S, Kish SJ: Dopa-responsive dystonia. *Current Clinical Neurology: Movement Disorder Emergencies: Diagnosis and Treatment (2nd ed)*, Frucht SJ, ed, Springer (Humana Press), New York, 319-340, 2013

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<参考>

2005年度日本神経学会「榎林賞」受賞

古川芳明: ドーパ反応性ジストニー: 臨床・遺伝・生化学的研究. 臨床神経 46: 19-34, 2006