2009

1. Tsukasaki K, Hermine O, Bazarbachi A, Ratner L, Ramos JC, Harrington W Jr, O'Mahony D, Janik JE, Bittencourt AL, Taylor GP, Yamaguchi K, Utsunomiya A, Tobinai K, Watanabe T: Definition, prognostic factors, treatment, and response criteria of adult T-cell leukemia-lymphoma: a proposal from an international consensus meeting. J Clin Oncol 27(3): 453-459, 2009
2. Iwanaga M, Tagawa M, Tsukasaki K, Matsuo T, Yokota KI, Miyazaki Y, Fukushima T, Hata T, Imaizumi Y, Imanishi D, Taguchi J, Momita S, Kamihira S, Tomonaga M: Relationship between monoclonal gammopathy of undetermined significance and radiation exposure in Nagasaki atomic bomb survivors. Blood 113(8): 1639-1650, 2009
3. Hamanoue H, Megarbane A, Tohma T, Nishimura A, Mizuguchi T, Saitsu H, Sakai H, Miura S, Toda T, Miyake N, Niikawa N, Yoshiura K, Hirahara F, Matsumoto N: A locus for ophthalmo-acromelic syndrome mapped to 10p11.23. Am J Med Genet A 149A(3): 336-342, 2009
4. Wu L, Liang D, Niikawa N, Ma F, Sun M, Pan Q, Long Z, Zhou Z, Yoshiura K, Wang H, Sato D, Nishimura G, Dai H, Zhang X, Xia J: A ZRS duplication causes syndactyly type IV with tibial hypoplasia. Am J Med Genet A 149A(4): 816-818, 2009
5. Kuniba H, Pooh RK, Sasaki K, Shimokawa O, Harada N, Kondoh T, Egashira M, Moriuchi H, Yoshiura KI, Niikawa N: Prenatal diagnosis of Costello syndrome using 3D ultrasonography amniocentesis confirmation of the rare HRAS mutation G12D. Am J Med Genet A 149A(4): 785-787, 2009
6. Nakahara M, Nagayama Y, Sogawa R, Saitoh O, Tone S, Abiru N: Expression of immuno-regulatory molecules on the thyrocytes protects NOD-H2h4 mice from developing autoimmune thyroiditis. Endocrinology 150(3): 1545-1551, 2009
7. Toyokuni H, Maruo A, Suzuki K, Watanabe M: The contribution of radiation-induced large deletion of the genome to chromosomal instability. Radiat Res 171(2): 198-203, 2009
8. Harada T, Kashino G, Suzuki K, Matsuda N, Kodama S, Watanabe M: Different

involvement of radical species in irradiated and bystander cells. Int J Radiat Biol 84(10): 809-814, 2009

9. Miyazaki K, Mapendano CK, Fuchigami T, Kondo S, Ohta T, Kinoshita A, Tsukamoto K, Yoshiura KI, Niikawa N, Kishino T: Developmentally dynamic changes of DNA methylation in the mouse Snurf/Snrpn gene. Gene 432(1-2): 97-101, 2009
10. Kuniba H, Yoshiura K, Kondoh T, Ohashi H, Kurosawa K, Tonoki H, Nagai T, Okamoto N, Kato M, Fukushima Y, Kaname T, Naritomi K, Matsumoto T, Moriuchi H, Kishino T, Kinoshita A, Miyake N, Matsumoto N, Niikawa N: Molecular karyotyping in 17 patients and mutation screening in 41 patients with Kabuki syndrome. J Hum Genet 54(5): 304-309, 2009
11. Toyoda Y, Sakurai A, Mitani Y, Nakashima M, Yoshiura KI, Nakagawa H, Sakai Y, Ota I, Lezhava A, Hayashizaki Y, Niikawa N, Ishikawa T: Earwax, osmidrosis, and breast cancer: why does one SNP (538G>A) in the human ABC transporter ABCC11 gene determine earwax type? FASEB J 23(6): 2001-2013, 2009
12. Nakano M, Miwa N, Hirano A, Yoshiura K, Niikawa N: A strong association of axillary osmidrosis with the wet earwax type determined by genotyping of the ABCC11 gene. BMC Genet 10: 42, 2009
13. Machida J, Félix TM, Murray JC, Yoshiura K, Tanemura M, Kamamoto M, Shimozato K, Sonta S, Ono T: Searching for genes for cleft lip and/or palate based on breakpoint analysis of a balanced translocation t(9;17)(q32;q12). Cleft Palate Craniofac J 46(5): 532-540, 2009
14. The Super Science High School Consortium: Japanese map of the earwax gene frequency: a nationwide collaborative study by Super Science High School Consortium. J Hum Genet 54(9): 499-503, 2009
15. Kimani JW, Yoshiura K, Shi M, Jugessur A, Moretti-Ferreira D, Christensen K, Murray JC: Search for Genomic Alterations in Monozygotic Twins Discordant for Cleft Lip and/or Palate. Twin Res Hum Genet 12(5): 462-468, 2009
16. Yamashita S: Global strategic center for radiation health risk control. In Radiation Health Risk Sciences (Nakashima M, Takamura N, Tsukasaki K, Nagayama Y, Yamashita S, eds.; Springer) pp.3-10, 2009
17. Shibata Y: Twenty years after Chernobyl: implications for radiation health risk

control. In Radiation Health Risk Sciences (Nakashima M, Takamura N, Tsukasaki K, Nagayama Y, Yamashita S, eds.; Springer) pp.103-112, 2009

18. Suzuki K, Yamauchi M, Oka Y, Yamashita S: Higher-order chromatin structure and nontargeted effects. In Radiation Health Risk Sciences (Nakashima M, Takamura N, Tsukasaki K, Nagayama Y, Yamashita S, eds.; Springer) pp.123-126, 2009
19. Zou Y, Goetz EM, Suzuki M, Boothman DA: Secretory clusterin is a marker of tumor progression regulated by IGF-1 and Wnt signaling pathways. In Radiation Health Risk Sciences (Nakashima M, Takamura N, Tsukasaki K, Nagayama Y, Yamashita S, eds.; Springer) pp.204-211, 2009
20. Trosko JE, Suzuki K: Adult stem cells, the barker hypothesis, epigenetic events, and low-level radiation effects. In Radiation Health Risk Sciences (Nakashima M, Takamura N, Tsukasaki K, Nagayama Y, Yamashita S, eds.; Springer) pp.216-226, 2009
21. Korol NA, Shibata Y: Health status of children exposed to the Chernobyl accident in utero: observations in 1989-2003 and the implications for prioritizing prophylactic programs. In Radiation Health Risk Sciences (Nakashima M, Takamura N, Tsukasaki K, Nagayama Y, Yamashita S, eds.; Springer) pp.271-276, 2009
22. Saenko VA, Nakazawa Y, Rogounovitch TI, Suzuki K, Mitsutake N, Matsuse M, Oka Y, Yamashita S: Paracrine interactions between normal, but not cancer, epithelial and normal mesenchymal cells attenuate radiation-induced DNA damage. In Radiation Health Risk Sciences (Nakashima M, Takamura N, Tsukasaki K, Nagayama Y, Yamashita S, eds.; Springer) pp.294-301, 2009
23. Bespalchuk PI, Demidchik YE, Demidchik EP, Saenko VA, Yamashita S: Current trends in incidence and mortality from thyroid cancer in Belarus. In Radiation Health Risk Sciences (Nakashima M, Takamura N, Tsukasaki K, Nagayama Y, Yamashita S, eds.; Springer) pp.317-322, 2009
24. Akanov A, Meirmanov S, Indershiev A, Musahanova A, Yamashita S: Nuclear explosions and public health development. In Radiation Health Risk Sciences (Nakashima M, Takamura N, Tsukasaki K, Nagayama Y, Yamashita S, eds.; Springer) pp.328-333, 2009
25. Matsuse M, Mitsutake N, Rogounovitch T, Saenko V, Nakazawa Y, Rumyantsev P,

Lushnikov E, Suzuki K, Yamashita S: Mutation analysis of RAP1 gene in papillary thyroid carcinomas. Endocr J 56(1): 161-164, 2009

26. Limsirichaikul S, Niimi A, Fawcett H, Lehmann A, Yamashita S, Ogi T: A rapid non-radioactive technique for measurement of repair synthesis in primary human fibroblasts by incorporation of ethynyl deoxyuridine (EdU). Nucleic Acids Res 37(4): e31, 2009
27. Pushkarev VM, Starenki DV, Saenko VA, Yamashita S, Kovzun OI, Popadiuk ID, Pushkarev VV, Tronko MD: Effects of low and high concentrations of antitumour drug taxol in anaplastic thyroid cancer cells. Exp Oncol 31(1): 16-21, 2009
28. Shibata Y: The issue of exposure to residual radiation of A-bomb survivors with estimate of very low primary radiation dose. Environ Health Prev Med 14(2): 155-156, 2009
29. Kobayashi Y, Funayama T, Hamada N, Sakashita T, Konishi T, Imaseki H, Yasuda K, Hatashita M, Takagi K, Hatori S, Suzuki K, Yamauchi M, Yamashita S, Tomita M, Maeda M, Kobayashi K, Usami N, Wu L: Microbeam irradiation facilities for radiobiology in Japan and China. J Radiat Res 50(suppl A): A29-47, 2009
30. Akulevich N, Saenko V, Rogounovitch T, Drozd V, Lushnikov E, Ivanov V, Mitsutake N, Kominami R, Yamashita S: Polymorphisms of DNA damage response genes in radiation-related and sporadic papillary thyroid carcinoma. Endocr Relat Cancer 16(2): 491-503, 2009
31. Drozd VM, Lushchik ML, Polyanskaya ON, Fridman MV, Demidchik YE, Lyshchik AP, Biko J, Reiners C, Shibata Y, Saenko VA, Yamashita S: The usual ultrasonographic features of thyroid cancer are less frequent in small tumors that develop after a long latent period after the Chernobyl radiation release accident. Thyroid 19(7): 725-734, 2009
32. Matsuse M, Mitsutake N, Nishihara E, Rogounovitch T, Saenko V, Rumyantsev P, Lushnikov E, Suzuki K, Miyauchi A, Yamashita S: Lack of GNAQ hotspot mutation in papillary thyroid carcinomas. Thyroid 19(8): 921-922, 2009
33. Suzuki K, Kashino G, Kodama S, Watanabe M: Long-term persistence of X-ray-induced genomic instability in quiescent normal human diploid cells. Mutat Res 671(1-2): 33-39, 2009
34. Yamashita S: Molecular targeted therapy for thyroid cancer in Japan: a call to

reduce the backlog. Endocrine J 56(8): 919-920, 2009

35. Davis DR, Zhang Y, Smith RR, Cheng K, Terrovitis J, Malliaras K, Li TS, White A, Makkar R, Marbán E: Validation of the cardiosphere method to culture cardiac progenitor cells from myocardial tissue. PLoS ONE 4(9): e7195, 2009
36. Li TS, Kubo M, Ueda K, Murakami M, Ohshima M, Kobayashi T, Tanaka T, Shirasawa B, Mikamo A, Hamano K: Identification of risk factors related to poor angiogenic potency of bone marrow cells from different patients. Circulation 120(11 Suppl): S255-261, 2009
37. Kubo M, Li TS, Kamota T, Ohshima M, Qin SL, Hamano K: Hypoxic preconditioning of mononuclear cells enhances angiogenesis by increasing retention within ischemic tissue after implantation. J Cell Physiol 220(2): 508-514, 2009
38. Kamota T, Li TS, Morikage N, Murakami M, Ohshima M, Kubo M, Kobayashi T, Mikamo A, Ikeda Y, Matsuzaki M, Hamano K: Ischemic preconditioning enhances the mobilization and recruitment of bone marrow stem cells to protect against ischemia/reperfusion injury in the late phase. J Am Coll Cardiol 53(19): 1814-1822, 2009
39. Murakami J, Li TS, Ueda K, Tanaka T, Hamano K: Inhibition of accelerated tumor growth by blocking the recruitment of mobilized endothelial progenitor cells after chemotherapy. Int J Cancer 124(7): 1685-1692, 2009
40. Minematsu K, Kaneko Y, Nakazato M, Maeda T, Christopher NJ, Yoda T, Goto K, Takamura N, Mizota T: Percentage body fat assessed by bioelectrical impedance analysis as a new health index for rural areas in the Asia-Pacific region. Acta Med Nagasaki 54(1): 39-43, 2009
41. Fukahori S, Matsuse H, Takamura N, Hirose H, Tsuchida T, Kawano T, Fukushima C, Mizuta Y, Kohno S: Incidence of chronic obstructive pulmonary disease in general clinics and relevant factors with FEV1/FVC. Int J Clin Prac 63(2): 269-274, 2009
42. Taira Y, Hayashida N, Zhavaranak S, Kozlovsky A, Lyzikov A, Yamashita S, Takamura N: Urinary iodine concentrations in urban and rural areas around Chernobyl Nuclear Power Plant. Endocr J 56(2): 257-261, 2009
43. Takamura N, Akilzhanova A, Hayashida N, Kadota K, Yamasaki H, Usa T, Nakazato M, Maeda T, Ozono Y, Aoyagi K: Thyroid function is associated with

carotid intima media thickness in euthyroid subjects. Atherosclerosis 204(2): e77-e81, 2009

44. Hayashida H, Kawasaki K, Yoshimura A, Kitamura M, Furugen R, Nakazato M, Takamura N, Hara Y, Maeda T, Saito T: Relationship between periodontal status and HbA1c in non-diabetics. J Public Health Dent 69(3): 204-206, 2009
45. Shinkawa T, Hayashida N, Mori K, Washio K, Hashiguchi K, Taira Y, Morishita M, Takamura N: Poor chewing ability is associated with lower mucosal moisture in elderly individuals. Tohoku J Exp Med 219(4): 263-267, 2009
46. Date Y, Abe Y, Honda S, Ye Z, Takamura N, Tomita M, Osaki M, Aoyagi K: Depressive status on Chinese factory workers in Nagasaki, Japan. Ind Health 47(4): 376-382, 2009
47. Nishiguchi M, Takamura N, Kono M, Aoyagi K: Estimation of blood loss in total knee arthroplasty with and without tourniquet. Acta Med Nagasaki 53(4): 105-109, 2009
48. Ichinose S, Nakamura M, Maeda M, Ikeda R, Wada M, Nakazato M, Ohba Y, Takamura N, Maeda T, Aoyagi K, Nakashima K: A validated HPLC-fluorescence method with a semi-micro column for routine determination of homocysteine, cysteine and cysteamine, and the relation between the thiol derivatives in normal human plasma. Biomed Chromatogr 23(9): 935-939, 2009
49. Hirakawa H, Shibata K, Nakayama T: Localization of cortaction is associated with colorectal cancer development: Int J Oncol 35: 1271-1276, 2009
50. Hirakawa H, Nakayama T, Shibata K, Mihara Y, Taba M, Nagayasu T, Sekine I: Apical membrane localization of glycogen synthase kinase 3beta protein in normal colon epithelium and aberrant distribution in colorectal cancer: Cancer Lett 275: 158-162, 2009
51. Hirakawa H, Nakayama T, Shibata K, Sekine I: Association of cellular localization of glycogen synthase kinase 3β in the digestive tract with cancer development: Oncol Rep 22: 481-485, 2009
52. Mihara Y, Nakayama T, Nanashima A, Kuroki T, Onizuka S, Ito M, Naruke Y, Hayashi T, Sanefuji H, Sekine I: Expression and significance of angiopoietin-1, 2 and Tie-2 receptor in human extrahepatic bile duct carcinoma: Correlation with clinicopathological factors: Acta Med Nagasaki 53: 89-95, 2009

53. Taba M, Nakayama T, Naito S, Mihara Y, Miura S, Naruke Y, Sekine I: Differential expression of vascular endothelial growth factor (VEGF) and VEGF receptors in the sequence of hyperplastic polyp, serrated adenoma and adenocarcinoma of colorectum: Acta Med Nagasaki 53: 85-88, 2009
54. Naruke Y, Nakashima M, Suzuki K, Kondo H, Hayashi T, Soda M, Sekine I: Genomic instability in the epidermis induced by atomic bomb (A-bomb) radiation: a long-lasting health effect in A-bomb survivors: Cancer 115: 3782-3790, 2009
55. Yoshizaki A, Nakayama T, Naito S, Sekine I: Expression patterns of angiopoietin-1, -2, and tie-2 receptor in ulcerative colitis support involvement of the angiopoietin/tie pathway in the progression of ulcerative colitis: Dig Dis Sci 54: 2094-2099, 2009
56. Saitoh O, Mitsutake N, Nakayama T, Nagayama Y: Fibroblast-mediated in vivo and in vitro growth promotion of tumorigenic rat thyroid carcinoma cells but not normal Fisher rat thyroid follicular cells: Thyroid 19: 735-742, 2009
57. Nanashima A, Shibata K, Nakayama T, Tobinaga S, Araki M, Kunizaki M, Takeshita H, Hidaka S, Sawai T, Nagayasu T, Yasutake T: Clinical significance of microvessel count in patients with metastatic liver cancer originating from colorectal carcinoma: Ann Surg Oncol 16: 2130-2137, 2009
58. Nanashima A, Shibata K, Nakayama T, Tobinaga S,Araki M, Kunizaki M, Takeshita H, Hidaka S, Sawai T, Nagayasu T, Tagawa T: Relationship between microvessel count and postoperative survival in patients with intrahepatic cholangiocarcinoma: Ann Surg Oncol 16: 2123-2129, 2009
59. Zhantelyeva LA, Alipov GK, Sekine I, Jeong BL, Young KM, Hun MY: Assessment of functional status of the renal parenchyma in children suffering from vesicoureteral reflex: Journal of Soonchunhyang Medical Science 14: 33-36, 2009
60. Eguchi S, Takatsuki M, Nakashima M, Kanematsu T: Living-donor liver transplantation from second generation children for atomic bomb survivors: Hepatology Research 39: 1150-1152, 2009
61. Matsubayashi S, Nakashima M, Kumagai K, Egashira M, Naruke Y, Kondo H, Hayashi T, Shindo H: Immunohistochemical analyses of beta-cyclin D1 expression in giant cell tumor of bone (GCTB) : a possible role of wnt pathway in GCTB tumorigenesis: Pathol Res Pract 205: 626-623, 2009

62. Moriyama S, Kotera K, Khan KN, Sato F, So Y, Fujishita A, Matsuda K, Nakajima H, Ishimaru T, Masuzaki H: Prognostic Significance of tumor volume and Microvessel Density in squamous cell carcinoma of uterine cervix: Acta Med Nagasaki 53: 77-84, 2009
63. Yamada K, Terada R, Touyama H, Takahashi T, Miyashita K, Nakashima M, Nakayama T: Perforated peptic ulcer of the jejunum with ectopic gastric mucosa: Acta Med Nagasaki 54: 45-48, 2009
64. Nakayama T, Hirakawa H, Shibata K, Sekine I: The protective effect of Angiopoietin-1 on X-ray irradiation induced cell death in cultured intestinal epithelial cell: Gut 58(Suppl. 2): A114, 2009
65. Shichijo K, Ihara M, Miura S, Matsuu M, Nakashima M, Nakayama T, Sekine I: Interleukin 11 Ameliorates radiation colitis by enhanced bone marrow contribution to repair of colonic tissue in rats: Gastroenterol 136(Suppl. 5): A575, 2009
66. Shibata K, Nakayama T, Hirakawa H, Nagayasu T: The expression of angiopoietin-like 4 (ANGPTL4) predicts the recurrence pattern in human oesophageal cancer: Gut 58(Suppl. 2): A434, 2009
67. Misharin A, Aliesky H, Nagayama Y, Rapoport B, McLachlan SM: Studies in mice deficient for the Autoimmune Regulator (Aire) and transgenic for the thyrotropin receptor reveal a role for Aire in tolerance for thyroid autoantigens. Endocrinology 150(6): 2948-2956, 2009
68. Misharin AV, Nagayama Y, Holly A, Aliesky AH, Mizutori Y, Rapoport B, McLachlan SM: Attenuation of induced hyperthyroidism in mice by pre-treatment with thyrotropin receptor protein: diversion of thyroid stimulating antibody to non-functional antibody induction. Endocrinology 150(8): 3944-3952, 2009
69. Saitoh O, Mitsutake N, Nakayama T, Nagayama Y: Fibroblast-mediated in vivo and in vitro growth promotion of thyroid carcinoma FTRL-Tc, not normal thyroid FRTL5, cells. Thyroid 19(7): 735-742, 2009
70. Horie I, Abiru N, Nagayama Y, Saitoh O, Ichikawa T, Iwakura Y, Eguchi K: T helper type 17 immune response plays an indispensable role for development of experimental autoimmune thyroiditis in NOD-H2h4 mice. Endocrinology 150(11): 5135-5142, 2009
71. Nagayama Y, Ichikawa T, Saitoh O, Abiru N: Induction of late-onset, spontaneous

autoimmune thyroiditis by a single low-dose irradiation in non-obese diabetic-H2h4 mice. J Radiat Res 50(6): 573-577, 2009

72. Imamura A, Nishida A, Nakazawa N, Shimodera S, Tanaka G, Kinoshita H, Ozawa H, Okazaki Y: Effects of cellular phone email use on the mental health of junior high school student in Japan. Psychiatry and Clinical neurosciences 63(5): 701-703, 2009
73. Rika K, Nakane H, Deok SM, Kinoshita H, Kim H, Bahn G, Nishihara K, Kumagai A, Ohtsuru A, Shibata Y, Ozawa H, Nakane Y: Mental health status of A-bomb survivors in Korea. XII International Congress of IFPE. International Federation of Psychiatric Epidemiology 94, 2009
74. Ichinose H, Nakane Y, Nakane H, Kinoshita H, Ohta Y, Honda S, Ozawa H: Nagasaki Schizopherenia Study: Relationship between ultralong-term outcome (after 28 years) and duration of untreated psychosis. Acta Med Nagasaki 54(3): 59-66, 2009
75. Ozawa H: Psychotic-like experiences (PLEs) and social problems among Japanese Adolescents. Korea-Japan-China Psychiatry Symposium for the 60-year Anniversary for KyungHee University 10, 2009
76. Ishikawa Y, Kiyoi H, Tsujimura A, Miyawaki S, Miyazaki Y, Kuriyama K, Tomonaga M, Naoe T: Comprehensive analysis of cooperative gene mutations between class I and class II in de novo acute myeloid leukemia. Eur J Haematol 83(2): 90-98, 2009
77. Doi Y, Sasaki D, Terada C, Mori S, Tsuruda K, Matsuo E, Miyazaki Y, Nagai K, Hasegawa H, Yanagihara K, Yamada Y, Kamihira S: High-resolution melting analysis for a reliable and two-step scanning of mutations in the tyrosine kinase domain of the chimerical bcr-abl gene. Int J Hematol 90(1): 37-43, 2009
78. Tojo A, Usuki K, Urabe A, Maeda Y, Kobayashi Y, Jinnai I, Ohyashiki K, Nishimura M, Kawaguchi T, Tanaka H, Miyamura K, Miyazaki Y, Hughes T, Branford S, Okamoto S, Ishikawa J, Okada M, Usui N, Tanii H, Amagasaki T, Natori H, Naoe T: A Phase I/II study of nilotinib in Japanese patients with imatinib-resistant or -intolerant Ph+ CML or relapsed/ refractory Ph+ ALL. Int J Hematol 89(5): 679-688, 2009
79. Sakamaki H, Ishizawa K, Taniwaki M, Fujisawa S, Morishima Y, Tobinai K, Okada

M, Ando K, Usui N, Miyawaki S, Utsunomiya A, Uoshima N, Nagai T, Naoe T, Motoji T, Jinnai I, Tanimoto M, Miyazaki Y, Ohnishi K, Iida S, Okamoto S, Seriu T, Ohno R: Phase 1/2 clinical study of dasatinib in Japanese patients with chronic myeloid leukemia or Philadelphia chromosome-positive acute lymphoblastic leukemia. Int J Hematol 89(3): 332-341, 2009

80. Sakai M, Miyazaki Y, Matsuo E, Moriuchi Y, Hata T, Fukushima T, Imaizumi Y, Imanishi D, Taguchi J, Iwanaga M, Tsushima H, Inoue Y, Takasaki Y, Tsuchiya T, Komoda M, Ando K, Horio K, Moriwaki Y, Tominaga S, Itonaga H, Nagai K, Tsukasaki K, Tsutsumi C, Sawayama Y, Yamasaki R, Ogawa D, Kawaguchi Y, Ikeda S, Yoshida S, Onimaru Y, Tawara M, Atogami S, Koida S, Joh T, Yamamura M, Matsuo Y, Soda H, Nonaka H, Jinnai I, Kuriyama K, Tomonaga M: Long-term efficacy of imatinib in a practical setting is correlated with imatinib trough concentration that is influenced by body size: a report by the Nagasaki CML Study Group. Int J Hematol 89(3): 319-325, 2009