

RESEARCH OUTPUT 2005

Monographs published in Slovakia: 2

1. PLEŠKO, I. - ONDRUŠOVÁ, M. - ŠTEFAŇÁKOVÁ, D. - KUZMA, I. - MADŽOVÁ, J. - POKRIVČÁKOVÁ, M. a kol. *Incidencia zhubných nádorov v Slovenskej Republike 2002*. Bratislava: Ústav zdravotníckych informácií a štatistiky, 2005. 207 s.
2. PLEŠKO, I. - BARÁKOVÁ, A. - DUDOVÁ, M. *Epidemiológia zhubných nádorov v Slovenskej republike, 1971-2003*. Bratislava: Ústav zdravotníckych informácií a štatistiky a národný onkologický register, 2005. 75 s.

Chapters in monographs/books published in Slovakia: 5

1. PLEŠKO, I. - OBŠITNÍKOVÁ, A. - BELLA, V. *Epidemiológia zhubných nádorov prsníka*. In: Bella V. a kolektív. *Karcinóm prsníka*. Banská Bystrica: Advert, 2005. ISBN 80-968297-2-6, s. 5-14.
2. PLEŠKO, I. *Epidemiológia zhubných nádorov*. In Bakoss P.: *Epidemiológia*. Bratislava: Univerzita Komenského Bratislava, 2005. ISBN 80-223-1989-9. s. 349-375.
3. ALTANEROVÁ, V. *Molekulovo biologické aspekty vzniku feochromocytómu*. In Moravec R. a kolektív. *K problematike chorôb nadobličiek. Diagnostika a chirurgická liečba*. Alexandra, 2005. ISBN 80-969203-1-6. p. 73-82.
4. ALTANER, Č. *Molekulárne príčiny vzniku nádorov prsníka*. In: Bella V. a kolektív. *Karcinóm prsníka*. Banská Bystrica: Advert, 2005. 80-968297-2-6, s. 15-20.
5. ALTANER, Č. *Hormonálne dependentné neoplázie. 1.6.2. Pohľady molekulárno genetické*. In Kreze A., Langer P., Klimeš I., Stárka L., Payer J., Michálek J. *Všeobecná a klinická endokrinológia*. Bratislava: Academic Electronic Press, 2004. ISBN 80888805-80, s. 47-49.

CC publications: 33

1. BABUŠÍKOVÁ, O. - ŽELEZNÍKOVÁ, T. - MLČÁKOVÁ, A. - KUSENDA, J. - ŠTEVULOVÁ, L. The knowledge on the 3-rd type hematogones could contribute to more precise detection of small numbers of precursors B-ALL. In *Neoplasma*. Vol. 52, no. 6 (2005), p. 502-509. (IF2005: 0.731)
2. BOĎO, J. - CHOVANCOVÁ, J. - HUNÁKOVÁ, Ľ. - SEDLÁK, J. Enhanced sensitivity of human ovarian carcinoma cell lines A2780 and A2780/CP to the combination of cisplatin and synthetic isothiocyanate ethyl 4-isothiocyanatobutanoate E-4IB. In *Neoplasma*. Vol. 52, no. 6 (2005), p. 510-516. (IF2005: 0.731)
3. BOZSAKYOVÁ, E. - WSÓLOVÁ, L. - CHALUPA, I. Spontaneous and gamma-ray-induced sister chromatid exchanges in patients with carcinoma of cervix uteri. In *International Journal of Radiation Biology*. Vol. 81, no. 2 (2005), p. 177-185. (IF2005: 1.923)
4. DURAJ, J. - ZAZRIVCOVA, K. - BODO, J. - SULIKOVA, M. - SEDLAK, J. Flavonoid quercetin, but not apigenin or luteolin, induced apoptosis in human myeloid leukemia cells and their resistant variants. In *Neoplasma*. Vol. 52, no. 4 (2005), p. 273-279. (IF2005: 0.731)
5. FRECER, V. - BURELLO, E. - MIERTUŠ, S. Combinatorial design of nonsymmetrical cyclic urea inhibitors of aspartic protease of HIV-1. In *Bioorganic and Medical Chemistry*. Vol. 13, no. 18 (2005), p. 5492-5501. (IF2005: 2.286)
6. GATTA, G. - CAPOCACCIA, R. - STILLER, C. - KATSCH, P. - BERRINO, F. - TERENZIANI, M. - EURO CARE Working group (PLESKO, I. – člen). Childhood cancer survival trends in Europe: A EURO CARE Working Group Study. In *Journal of Clinical Oncology*. Vol. 23, no.16 (2005), p. 3742-3751. (IF2005: 11.81)
7. HLAVATÝ, J. - SCHITTMAYER, M. - STRACKE, A. - JANDL, G. - KNAPP, E. - FELBER, B. - GUNZBURG, W. - RENNER, M. Effect of posttranscriptional regulatory elements on transgene expression and virus production in the context of retrovirus vectors. In *Virology*. Vol. 341, no. 1 (2005), p. 1-11. (IF2005: 3.08)
8. HORVÁTHOVÁ, K. - CHALUPA, I. - ŠEBOVÁ, L. - TÓTHOVÁ, D. - VACHÁLKOVÁ, A. Protective effect of quercetin and luteolin in human melanoma HMB-2 cells. In *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*. Vol. 565, no. 2 (2005), p. 105-112. (2.02-IF2004) (IF2005: 1.934)
9. HU, X. - BIES, J. - WOLFF L. Interferon beta increases c-Myc proteolysis in mouse monocyte /macrophage leukemia cells. In *Leukemia Research*. Vol. 29, no. 11 (2005), p. 1307-1314 (IF2005: 2.372)
10. JAKUBÍKOVÁ, J. - BAO, Y. - SEDLÁK, J. Isothiocyanates induce cell cycle arrest, apoptosis and mitochondrial potential depolarization in HL-60 and multidrug-resistant cell lines. In *Anticancer Research*. Vol. 25, no. 5 (2005), p. 3375-3386. (IF2005: 1.604)

11. JAKUBÍKOVÁ, J. - SEDLÁK, J. - BACON, J. - GOLDSON, A. - BAO, Y. Effects of MEK1 and PI3K inhibitors on allyl-, benzyl- and phenylethyl-isothiocyanate induced G2/M arrest and cell death in Caco-2 cells. In *International Journal of Oncology*. Vol. 27, no. 5 (2005), p. 1441-1448. (IF2005: 2.681)
12. JAKUBÍKOVÁ, J. - SEDLÁK, J. - MITHEN, R. - BAO, Y. Role of PI3K/Akt and MEK/ERK signaling pathways in sulforaphane- and erucin-induced phase II enzymes and MRP2 transcription, G2/M arrest and cell death in Caco-2 cells. In *Biochemical Pharmacology*. Vol. 69 no. 11 (2005), p. 1543-1552. (IF2005: 3.617)
13. KANKURI, E. - CHOLUJOVÁ, D. - COMAJOVA, M. - VAHERI, A. - BIZIK, J. Induction of hepatocyte growth factor/scatter factor by fibroblast clustering directly promotes tumor cell invasiveness. In *Cancer Research*. Vol. 65, no. 21 (2005), p. 9914-9922. (IF2005: 7.616)
14. KLOBUŠICKÁ, M. - KUSENDA, J. - BABUŠÍKOVÁ, O. Myeloid enzymes profile related to the immunophenotypic characteristics of blast cells from patients with AML at diagnosis. In *Neoplasma*. Vol. 52, no. 3 (2005), p. 211-218. (IF2005: 0.731)
15. KÚDELA, P. - PAUKNER, S. - MAYR, U. - CHOLUJOVÁ, D. - SCHWARCOVÁ, Z. - SEDLÁK, J. - BIZIK, J. - LUBITZ, W. Bacterial ghosts as novel efficient targeting vehicles for DNA delivery to the human monocyte-derived dendritic cells. In *Journal of Immunotherapy*. Vol. 28, no. 2 (2005), p. 136-143. (IF2005: 3.644)
16. KYSELA, B. - CHOVANEC, M. - JEGGO, P. Phosphorylation of linker histones by DNA-dependent protein kinase is required for DNA ligase IV-dependent ligation in the presence of histone H1. In *Proceedings of National Academy of Sciences of the United States of America (PNAS)*. Vol. 102, no. 6 (2005), p. 1877-1882. (IF2005: 10.231)
17. LÁBAJ, J. - SLAMENŇOVÁ, D. - HRUŠOVSKÁ, I. - BRUNBORG, G. Analysis of DNA damage induced by pesticide 1,2-dibromo-3-chloropropane (DBCP) in rodent and human germ cells. In *Biologia*. Vol. 60, Suppl. no. 17 (2005), p. 95-98. (IF2005: 0.24)
18. MARKOVA, E. - HILLERT, L. - MALMGREN, L. - PERSSON, B.R. - BELYAEV, I.Y. Microwaves from GSM Mobile Telephones Affect 53BP1 and gamma-H2AX Foci in Human Lymphocytes from Hypersensitive and Healthy Persons. In *Environ Health Perspect.* Vol. 113, no. 9 (2005), p. 1172 - 1177. (IF2005: 5.342)
19. MEGO, M. - EBRINGER, L. - DRGOŇA, L. - MARDIAK, J. - TRUPL, J. - GREKSÁK, R. - NEMOVÁ, I. - ORAVCOVÁ, E. - ZAJAC, V. - KOZA, I. Prevention of febrile neutropenia in cancer patients by probiotic strain *Enterococcus faecium* M-74. Pilot study phase I. In *Neoplasma*. Vol. 52, no. 2 (2005), p. 159-164. (IF2005: 0.731)
20. MEGO, M. - MAJEK, P. - KONČEKOVÁ, R. - EBRINGER, L. - ČIERNIKOVÁ, S. - RAUKO, P. - KOVÁČ, M. - TRUPL, J. - SLEZÁK, P. - ZAJAC, V. Intramucosal bacteria in colon cancer and their elimination by probiotic strain *Enterococcus faecium*

- M-74 with organic selenium. In *Folia Microbiologica*. Vol. 50, no. 5 (2005), p. 1-5. (IF2005: 0.918)
21. NAKANO, T. - KATAFUCHI, A. - SHIMIZU, R. - TERATO, H. - SUZUKI, T. - TAUCHI, H. - MAKINO, K. - ŠKORVAGA, M. - VAN HOUTEN, B. - IDE, H. Repair activity of base and nucleotide excision repair enzymes for guanine lesions induced by nitrosative stress. In *Nucleic Acids Research*. Vol. 33, no. 7 (2005), p. 2181-2191. (IF2005: 7.552)
 22. OVESNÁ, Z. - HORVÁTHOVÁ-KOZICS, K. Structure-activity relationship of trans-resveratrol and its analogues. In *Neoplasma*. Vol. 52, no. 6 (2005), p. 450-455. (IF2005: 1.934)
 23. PASTORÁKOVÁ, A. - HLUBINOVÁ, K. - BOĐO, J. - LIBBY, J. - RYCHLÝ, B. - MARGISON, G. - ALTANER, Č. Tumor targeted gene therapy with plasmid expressing human tumor necrosis factor alpha in vitro and in vivo. In *Neoplasma*. Vol. 52, no. 4 (2005), p. 344-351. (IF2005: 0.731)
 24. KOŠŤANOVÁ - POLIAKOVÁ, D. - ŠABOVÁ, Ľ. Anti-apoptotic proteins-targets for chemosensitization of tumor cells and cancer treatment. In *Neoplasma*. Vol. 52, no. 6 (2005), p. 441-449. (IF2005: 0.731)
 25. KOŠŤANOVÁ - POLIAKOVÁ, D. - ŠABOVÁ, Ľ. Lactate utilization in mitochondria prevents Bax cytotoxicity in yeast *Kluyveromyces lactis*. In *FEBS Letters*. Vol., 579 no. 23 (2005), p. 5152-5156. (IF2005: 3.415)
 26. POTURNAJOVA, M. - ALTANEROVA, V. - KOSTALOVA, L. - BREZA, J. - ALTANER, C. Novel germline mutation in the transmembrane region of *RET* gene close to CYS634Ser mutation associated with MEN 2A syndrome. In *Journal of Molecular Medicine*. Vol. 83, no. 4 (2005), p. 287-295. (IF2005: 4.702)
 27. QUAGLIA, A. - VERCELLI, M. - LILLINI, R. - MUGNO, E. - COEBERGH, J.W. - QUINN, M. - MARTINEZ-GARCIA, C. - CAPOCACCIA, R. - MICHELI, A. - ELDCARE Working Group (PLESKO, I. – člen). Socio-economic factors and health care system characteristics related to cancer survival in the elderly. A population – based analysis in 16 European countries. In *Critical Reviews in Oncology/ Hematology*. 54, 2005, 117-128. (IF2005: 2.962)
 28. SARIMOV, R. - MARKOVA, E. - JOHANSSON, F. - JENSSEN, D. - BELYAEV, I. Exposure to ELF magnetic field tuned to Zn inhibits growth of cancer cells. *Bioelectromagnetics*. Vol. 26, no. 8 (2005) p. 631 - 638. (IF2005: 2.193)
 29. ŠOLTÝSOVÁ, A. - ALTANEROVÁ, V. - ALTANER, Č. Cancer stem cells. In *Neoplasma*. Vol. 52, no. (2005), p. 435 - 440. (IF2005: 0.731)
 30. TORUDD, J. - PROTOPOPOVA, M. - SARIMOV, R. - NYGREN, J. - ERIKSSON, S. - MARKOVÁ, E. - CHOVANEC, M. - SELIVANOVA, G. - BELYAEV, I. Dose-response for radiation-induced apoptosis, residual 53BP1 foci and DNA-loop relaxation in human lymphocytes. In *International Journal of Radiation Biology*. Vol. 81, no. 2 (2005), p.125-138. (IF2005: 1.923)

31. TREBATICKÁ, M. - SVIDOVÁ, S. - GROLMUS, J. - RAUKO, P. - KOGAN, G. - MIADOKOVÁ, E. Sulphoethyl glucan – a biological active polysaccharide. In *Biologia*. Vol. 60/Suppl. no. 17 (2005), p. 121-123. (IF2005: 0.24)
32. TRUGLIO, J. - RHAU, B. - CROTEAU, D. - WANG, L. - ŠKORVAGA, M. - KARAKAS, E. - DELLAVECCHIA, M. - WANG, H. - VAN HOUTEN, B. - KISKER, C. Structural insights into the first incision reaction during nucleotide excision repair. In *EMBO Journal*. Vol. 24, no. 5 (2005), p. 885-894. (IF2005: 10.053)
33. ŽELEZNÍKOVÁ, T. - BABUŠÍKOVÁ, O. The value of dot plot patterns and leukemia-associated phenotypes in AML diagnosis by multiparameter flow cytometry. In *Neoplasma*. Vol. 52, no. 6 (2005), p. 517-522. (IF2005: 0.731)

Scientific publication indexed by other databases: 1

1. CZAKÓ, L. - TISZLAVICZ, L. - TAKÁČZ, R. - BARADNAY, G. - LONOVICS, J. - CSERNI, G. - ZÁVODNÁ, K. - BARTOŠOVÁ, Z. The first molecular analysis of a hungarian HNPPC family: a novel MSH2 germline mutation. In *Orvosi hetilap (evid. v Medline)*. Vol. 146, no. 20 (2005), p. 1009-1016.

Scientific publications in other journals: 18

1. CUNINKOVÁ, M. - GALBAVÝ, Š. - ONDRUŠ, D. Klinicko-patologická vedecká konferencia – II. Ondrušov Memoriál. In *Urológia*. Vol. 11, no. 1 (2005), p. 42-45.
2. CUNINKOVÁ, M. 5. zimné urologické sympóziu v Špindlerovom Mlyne. In *Lekárske Listy (odborná príloha ZdN)*, no. 11 (2005), p. 28-29.
3. FRECER, V. - JEDINAK, A. - TOSSI, A. - BERTI, F. - BENEDETTI, F. - ROMEO, D. - MIERTUŠ, S. Structure based design of inhibitors of aspartic protease of HIV-1. In *Letters of Drug Design and Discovery*. Vol. 2, no. (2005), p. 638-646.
4. LIŠKA, J. - ALTANEROVÁ, V. - GALBAVÝ, Š. - STVRTINA, S. - BRTKO, J. Thyroid tumors: Histological classification nad genetic factors involved in the development of thyroid cancer. In *Endocrine regulations*. Vol. 39, no. (2005), p. 73-83.
5. NOVOTNY, L. - SZEKERES, T. Recent developments in cancer chemotherapy oriented towards new targets. *Expert Opinion on Therapeutic Targets*. Vol. 9, no. 2 (2005), p. 343-357.
6. ONDRUŠ, D. - CUNINKOVÁ, M. - GALBAVÝ, Š. II. Ondrušov memoriál. In *Lekárske Listy (odborná príloha ZdN)*, no. 16 (2005), p. 32-35.

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8. ONDRUŠ, D. - CUNINKOVÁ, M. Nádory testis. In *Urologie pro praxi*. Vol. 6, no. 1 (2005), p. 6-9.
9. ONDRUŠ, D. - ONDRUŠOVÁ, M. - HORŇÁK, M. - BÁRDOŠ, A. - GALBAVÝ, Š. Histopatologické charakteristiky nádorov močového mechúra vo vzťahu k prežívaniu klinického súboru pacientov (1968-2003). In *Urológia*. Vol. 11, no. 3 (2005), p. 26.
10. ONDRUŠ, D. - ONDRUŠOVÁ, M. - HORŇÁK, M. Dlhodobé skúsenosti s diferencovaným liečebným prístupom u pacientov s neseminomatóznym nádorom testis (NSNT) v I. klinickom štádiu. In *Česká urológia*. Vol. 9, no. 2 (2005), p. 20-21.
11. ONDRUŠ, D. - ONDRUŠOVÁ, M. Nádory močového mechúra. In *Medinews*. Vol. 3, no. 1 (2005), p. 42- 44.
12. ONDRUŠ, D. - ONDRUŠOVÁ, M. Nádory semenníka. In *Medinews*. Vol. 3, no. 1 (2005), p. 45-49.
13. ONDRUŠ, D. - ONDRUŠOVÁ, M. Škola urológie. In *Lekárske Listy (odborná príloha ZdN)*, no. 29 (2005), p. 4-7.
14. ONDRUŠOVÁ, M. - ONDRUŠ, D. - PLEŠKO, I. Epidemiologické ukazovatele vo vzťahu k urologickým malignitám. In *Urologie pro praxi*. Vol. 6, no. 6 (2005), p. 215-218.
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18. ONDRUŠOVÁ, M. Epidemiológia karcinómu prostaty. In *Lekárske Listy (odborná príloha ZdN)*, no. 29 (2005), p. 20-21.

Publications in proceedings of international scientific conferences: 14

1. SLAMEŇOVÁ, D. - NAVAROVÁ, J. Importance of nutrition in the ethiology of human cancer (prednáška). 10. *Interdisciplinary Czech and Slovak Toxicological*

- Conference. 14. - 16. september 2005, Olomouc, ČR, rozšírený (3-stranový) abstrakt bol uverejnený v časopise *Biomedical Papers*, 149 Suppl. 1 (2005) p. 41-43. (R)
2. KOGAN, G. - MIADOKOVÁ, E. - SLAMEŇOVÁ, D. - BABINCOVÁ, M. - RAUKO, P. - MAJTÁN, M. Antioxidant, antigenotoxic, and immunomodulating properties of yeast cell wall polysaccharides (prednáška). *Proceedings of the Bilateral Scientific Meeting Protection of Genotoxic Effects of Carcinogens by Micronutrients II*. 27. - 28. október 2005, Bratislava, abstrakt v Zborníku (2005). ISBN 80-969398-1-5 p. 7-9. (R)
 3. LAZAROVÁ, M. - LÁBAJ, J. - SLAMEŇOVÁ, D. - KOVÁČIKOVÁ, Z. - KODAN, G. - ECKL, P. Diet containing carboxymethyl chitin-glucan exhibits protective effects against DNA lesions in freshly isolated rat cells (prednáška). *Proceedings of the Bilateral Scientific Meeting Protection of Genotoxic Effects of Carcinogens by Micronutrients II*. 27. - 28. október 2005, Bratislava, abstrakt v Zborníku (2005). ISBN 80-969398-1-5 p. 10-11. (R)
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 5. KOŠÍKOVÁ, B. - LÁBAJ, J. - SLAMEŇOVÁ, D. Novel biobased anticarcinogenic agents. (prednáška). *Proceedings of the Bilateral Scientific Meeting Protection of Genotoxic Effects of Carcinogens by Micronutrients II*. 27. - 28. október 2005, Bratislava, abstrakt v Zborníku. ISBN 80-969398-1-5 p. 16-17. (R)
 6. LÁBAJ, J. - LAZAROVÁ, M. - SLAMEŇOVÁ, D. - KOŠÍKOVÁ, B. Effect of lignin on reduction of DNA damage in primary rat hepatocytes (prednáška). *Proceedings of the Bilateral Scientific Meeting Protection of Genotoxic Effects of Carcinogens by Micronutrients II*. 27. - 28. október 2005, Bratislava, abstrakt v Zborníku. ISBN 80-969398-1-5 p. 18-19. (R)
 7. LETAVAYOVÁ, L. - VLČKOVÁ, V. - VLASÁKOVÁ, D. - CHOVANEC, M. - BROZMANOVÁ, J. DNA double-strand breaks induced by sodium selenite and their repair in *Saccharomyces cerevisiae* (prednáška). *Protection of Genotoxic Effects of Carcinogens by Micronutrients II*. 27 - 28 máj 2005, Bratislava, Slovakia. Book of Abstracts.
 8. SLAMEŇOVÁ, D. - HORVÁTHOVÁ, E. - LÁBAJ, J. - LAZAROVÁ, M. Detrimental and beneficial effects of selected volatile plant oils on human cells (prednáška). *Proceedings of the Bilateral Scientific Meeting Protection of Genotoxic Effects of Carcinogens by Micronutrients II*. 27. - 28. október 2005, Bratislava, abstrakt v Zborníku (2005). ISBN 80-969398-1-5 p. 29 - 31. (R)
 9. HORVÁTHOVÁ, E. - COLLINS, A.R. Modulation of oxidant impairments on the level of DNA by fruit extracts; study on human cells cultured *in vitro* (prednáška). *Proceedings of the Bilateral Scientific Meeting Protection of Genotoxic Effects of*

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10. HORVÁTHOVÁ, E. - COLLINS, A.R. Modulácia oxidačných poškodení na úrovni DNA ovocnými extraktami; štúdia na ľudských bunkách kultivovaných v podmienkach *in vitro* (prednáška). *Jesenné pracovné dni Genetická toxikológia a prevencia rakoviny.* 24. - 26. október 2005, Bratislava, abstrakt v Zborníku. ISBN 80-969398-0-7 p. 12-14. (R)
11. GÁBELOVÁ, A. - FARKAŠOVÁ, T. - GURSKÁ, S. - MACHÁČKOVÁ, Z. - LUKAČKO, P. Identifikácia potenciálnych biomarkerov individuálnej vnímavosti na ionizačné žiarenie (prednáška). *Jesenné pracovné dni „Genetická toxikológia a prevencia rakoviny“.* 24. - 26. október 2005, Bratislava, Book of abstracts. ISBN 80-969398-0-7 p. 21. (R)
12. VALOVIČOVÁ, Z. - GÁBELOVÁ, A. Využitie mikrojadrového testu na detekciu biologických účinkov tkanivovo-špecifických karcinogénov v rôznych hepatálnych modeloch (prednáška). *Jesenné pracovné dni „Genetická toxikológia a prevencia rakoviny“.* 24. - 26. október 2005, Bratislava, Book of abstracts, p. 33. ISBN 80-969398-0-7. (R)
13. LAZAROVÁ, M. - LÁBAJ, J. - KOVÁČIKOVÁ, Z. - ECKL, P. - SLAMEŇOVÁ, D. Porovnanie hladín DNA poškodení v primárnych potkaních bunkách použitím kométového testu (poster). *Jesenné pracovné dni Genetická toxikológia a prevencia rakoviny.* 24. - 26. október 2005, Bratislava, abstrakt v Zborníku (2005). ISBN 80-969398-0-7 p. 39. (R)
14. LÁBAJ, J. - LAZAROVÁ, M. - SLAMEŇOVÁ, D. - KOŠÍKOVÁ, B. Vplyv lignínu na redukciu oxidačných poškodení DNA lymfocytov a testikulárnych buniek izolovaných z potkanov a myši (prednáška). *Jesenné pracovné dni: Genetická toxikológia a prevencia rakoviny.* 24 - 26 október 2005, Bratislava. Zborník.

Active participations at international conferences: 82

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