

## Vyacheslav (Slavik) Dushenkov

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- Sharova, I. C. and V. M. Dushenkov (1979). Types of development and types of seasonal dynamic of activity of ground beetles (Coleoptera, Carabidae). Fauna and ecology of invertebrates. Moscow, MGPI: 15-25.
- Dushenkov, V. M. (1980). Social focus of environmental education with respect to interdisciplinary cross-references. Problems of environmental education in high school, Tallinn.
- Dushenkov, V. (1981). Insects: enemies and friends. Zaria. Ozery, Moscow Region: 4.
- Dushenkov, V. (1981). Fungi kingdom. Zaria. Ozery, Moscow Region: 4.
- Dushenkov, V. and T. Chernykhovskaya (1981). Scientists help farmers. Zaria. Ozery, Moscow Region: 4.
- Dushenkov, V. M. (1981). Environmental education and environmental problems. Society and nature interaction as a contemporary global problem, Moscow-Obninsk.
- Dushenkov, V. M. (1981). Ground beetles in the agrocenoses of Moscow Region. All-Union conference on agrophytocenoses and agrobiocenoses, Ijevsk.
- Dushenkov, V. M. (1981). Anthrogenic impact on the population of ground beetles. Problems of soil zoology, Kiev.
- Dushenkov, V. M. (1982). "The principal laws of the formation of ground beetle (Coleoptera, Carabidae) complexes in agrocenoses." Dokl. Acad. Nauk SSSR **265**(1): 250-252.
- Dushenkov, V. M. (1982). Ground beetles (Coleoptera, Carabidae) in agrocenoses of South Moscow Region. Formation of animal and microbial population in agrocenoses. Moscow, Nauka: 47.
- Dushenkov, V. M. (1982). Impact of soil properties on the carabids (Coleoptera, Carabidae) population of the rye field. Anthropogenic impact on the soil fauna. Moscow, MGPI: 81-86.
- Dushenkov, V. M. and T. A. Chernykhovskaya (1982). Biology of some numerous carabids-entomophagus. Formation of animal and microbial population in agrocenoses, Moscow, Nauka.
- Feoktistov, V. F. and V. M. Dushenkov (1982). "Seasonal dynamics of activity of the ground beetles (Coleoptera, Carabidae) in forests of different types at the southern taiga boundary." Zool. Zh. **61**(2): 27-232.
- Dushenkov, V. M. (1983). "Basic mechanisms in the composition of ground beetle (Coleoptera, Carabidae) complexes in agrocenoses." Dokl. Biol. Sci. N.Y. **265**(1-6): 460-462.
- Dushenkov, V. M. (1983). On the carabid (Coleoptera, Carabidae) fauna of Moscow City. Fauna and ecology of soil fauna of Moscow Region. Moscow, Nauka: 111-112.
- Dushenkov, V. M. (1983). Fauna and ecology of ground beetles (Coleoptera, Carabidae) in the arable lands in Central Netchernozemie. Moscow, MGPI.
- Dushenkov, V. M. (1983). "All-Union meeting "Formation of animal and microbial population of agrocenoses"." Zh. obsch biol **44**(3): 428-430.
- Dushenkov, V. M. (1984). Carabid complexes in agrocenoses of Oka river flood-lands. Problems of soil zoology, Ashkhabad.
- Dushenkov, V. M. (1984). Seasonal changes in carabids activity in agrocenoses. Fauna and ecology of invertebrates. Moscow, MGPI: 69-76.
- Dushenkov, V. M. (1984). Complex of carabids-entomophagus in agrocenoses and ways of its optimization. 9. Conference of the AllUnion Entomological Society, Kiev, Naukova Dumka.
- Dushenkov, V. M. (1984). "Structural peculiarities of the population of ground beetles (Coleoptera, Carabidae) on the cultivated lands of the Moscow district." Zool. Zh. **63**(12): 1814-1821.

- Dushenkov, V. M. and T. A. Chernykhovskaya (1984). Mesorelief impact on ground beetles distribution. *Fauna and ecology of invertebrates*. Moscow, MGPI: 77-81.
- Dushenkov, V. M. and T. A. Chernykhovskaya (1984). Differentiation in the feeding behavior in Carabids. *Problems of regional animal ecology in zoological curriculum of teachers universities*, Vitebsk.
- Sharova, I. C. and V. M. Dushenkov (1984). Zoogeographical composition of Carabids complexes in agrocenoses of the USSR European Part. 8. All-Union Zoogeography Conference, Leningrad, Moscow.
- Dushenkov, V. (1985). Research expedition. Borba. Vojega, Vologda region: 3.
- Dushenkov, V. M. (1985). "Seasonal dynamics of the spectrum of beetle (Coleoptera, Carabidae) life forms on cultivated lands in the Moscow region." *Sov. J. Ecol.* **16**(4): 224-228.
- Dushenkov, V. M. (1985). "Seasonal changes in ground beetles (Coleoptera, Carabidae) life forms spectrum in arable lands of Moscow region." *Ecology*(4): 39-44.
- Sharova, I. C., V. M. Dushenkov and V. E. Karpova (1985). Ground beetle complexes (Coleoptera, Carabidae) in agrocenoses of the USSR European part. 9. International Pedozoology Colloquium, Moscow, Nauka.
- Dushenkov, V. M. (1986). The structure of carabid population in the wheat field. *Biocenosis of wheat field*. N. M. Chernova. Moscow, Nauka: 102-107.
- Dushenkov, V. M. (1986). *Urban ecology*. Moscow, NIISIMO.
- Dushenkov, V. M. (1986). *Manual for field invertebrate zoology*. Moscow, MGPI.
- Dushenkov, V. M. (1986). The effect of collection methods on the capture of ground beetles (Coleoptera, Carabidae) life forms. *Ecology of terrestrial and soil arthropods life forms*. Moscow, MGPI: 25-32.
- Dushenkov, V. M., V. G. Matveeva and M. E. Chernykhovskiy (1986). *Invertebrate zoology. Laboratory manual*. Moscow, MGPI.
- Dushenkov, V. M., V. G. Matveeva and M. E. Chernykhovskiy (1986). *Laboratory manual for invertebrate zoology*. Moscow, MGPI.
- Dushenkov, V. M., E. L. Solnceva and C. M.N. (1986). *Invertebrate zoology field practice*. Moscow, Prosveschenie: 15-30.
- Sharova, I. C. and V. M. Dushenkov (1986). Zones regularities in changing of ground beetles (Coleoptera, Carabidae) life forms in agrocenoses. *Ecology of terrestrial and soil arthropods life forms*. Moscow, MGPI: 32-38.
- Stepanian, E. N., V. M. Dushenkov, V. V. Titova and E. M. Alexsakhina (1986). *Laboratory practicum in zoology with the basics of animal ecology*. Moscow, Prosveschenie.
- Dushenkov, V. M. (1987). Biotop distribution of the soil surface active carabids larvae in central Nechernozem'e. *Problems of soil zoology*. 9. All-Union symposium, Tbilisi, Mencniereba.
- Dushenkov, V. M. and A. I. Dushenkova (1987). "On the pilot textbook "General Biology"." *Biology in School*(2): 75-76.
- Dushenkov, V. M., V. G. Matveeva and M. E. Chernykhovskiy (1987). *Manual for the invertebrate zoology classes*. Moscow, MGPI.
- Sharova, I. C. and V. M. Dushenkov (1987). Ecological basics of carabid-entomophagus effectiveness in agrocenoses. *Problems of soil zoology*. 9. All-Union symposium, Tbilisi, Mencniereba.
- Sharova, I. C., V. M. Dushenkov and V. E. Karpova (1987). Ground beetle complexes (Coleoptera, Carabidae) in agrocenoses of the European Part of the USSR. 9. International Pedozoology Colloquium, Moscow, Nauka.

- Sharova, I. C., V. M. Dushenkov and V. E. Karpova (1987). Ways of carabids complexes formation in different climatic zones of the USSR European Part. Problems of soil zoology. 9. All-Union symposium, Tbilisi, Mecniereba.
- Dushenkov, V. M. (1988). Carabids in agrocenoses of the north of Vologda region. Symposium of Dagestan Entomologists, Makhachkala.
- Dushenkov, V. M. and M. E. Chernykhovskiy (1988). Darwinism. Laboratory manual. Moscow, MGPI.
- Dushenkov, V. M., M. E. Chernykhovskiy and S. P. Shatalova (1988). General biology posters. Moscow, Vyshaia Shcola.
- Dushenkov, V. M. and E. M. Kozodoi (1988). "The distribution of Staphylinids (Coleoptera, Staphylinidae) in the fields with various crop types in the south of Moscow region." Biologicheskie nauki(9): 32-34.
- Sharova, I. C. and V. M. Dushenkov (1988). Ecological strategy and methods of optimization of population of ground beetles (Coleoptera, Carabidae) in the fields. 12. SIEEC, Kiev.
- Sharova, I. C. and V. M. Dushenkov (1988). Basics of seasonal dynamics of ground beetles activity in the agrocenoses of the USSR European Part. Symposium of Dagestan Entomologists, Makhachkala.
- Sharova, I. C., V. M. Dushenkov and V. E. Karpova (1988). The structure and dynamics of population of the dominant carabid species in agrocenoses. Ecological All-Union Symposium. Novosibirsk. **2**: 54-56.
- Dushenkov, V. M. (1989). Allow me to object. Leninetc. Moscow: 2.
- Dushenkov, V. M. (1989). The strategy of ground beetles (Coleoptera, Carabidae) life forms in agrocenoses. Life forms and organisms strategies and their implementation in bioindication of environmental conditions, Cheshsky Budieevitcy.
- Dushenkov, V. M. and T. A. Chernykhovskaya (1989). "Larvae of ground beetles (Coleoptera, Carabidae) on agricultural fields near Moscow." Zool. Zh. **68**(11): 48-55.
- Dushenkov, V. M. and L. R. Mustapha (1989). "Introducing a new textbook." Biology in School(6): 72-73.
- Dushenkov, V. M. and T. A. Chernykhovskaya (1990). Ground beetles larvae in the arable lands of Moscow region. Structure and dynamics of populations of soil and terrestrial invertebrates. Moscow, MGPI: 84-98.
- Dushenkov, V. M. and M. E. Chernykhovskiy (1990). Darwinism. Moscow, Prometei.
- Dushenkov, V. M. and A. I. Dushenkov (1990). Check yourself (500 biological tests). Moscow, Ecologia i obrazovanie.
- Dushenkov, V. M., N. V. Gerasimova and E. L. Dar'ina (1990). Ground beetles (Coleoptera, Carabidae) in isolated forests of Moscow. Fauna and ecology of ground beetles, Kishenev.
- Dushenkov, V. M., A. A. Jelezniakov and L. V. Dement'eva (1990). Impact of lignin fertilizers on carabid population in agrocenoses. All-Union conference of zoologists from pedagogical universities, Makhachkala.
- Dushenkov, V. M., V. M. Konstantinov and M. E. Chernykhovskiy (1990). Ecology and environment protection posters. Moscow, Vyshaia Shcola.
- Dushenkov, V. M. and E. V. Lukina (1990). The impact of natural and anthropogenic factors on *Pterostichus oblongopunctatus* F. (Coleoptera, Carabidae) population fenetic structure. Structure and dynamics of populations of soil and terrestrial invertebrates. Moscow, MGPI: 73-84.

- Dushenkov, V. M. and K. V. Makarov (1990). The use of modeling programs in the study of microevolution processes in population. Teacher training under new information technology, Petrozavodsk.
- Sharova, I. C. and V. M. Dushenkov (1990). Studies of population of ground beetles in the USSR. Fauna and ecology of ground beetles, Kishenev.
- Sharova, I. C. and V. M. Dushenkov (1990). The results of the rating system evaluation in zoology and darwinism courses. All-Union conference for zoologists of pedagogical universities, Makhachkala.
- Anastasova, L. P., V. M. Dushenkov, B. D. Komissarov, V. M. Konstantinov, V. S. Kuchmenko, V. V. Latushin, A. I. Nikishov, V. M. Pakulova, V. V. Pasechnik, I. N. Ponamoreva, V. I. Sivoglasov, D. D. Uteshinskiy and N. M. Chernova (1991). "Biological education in schools of the Russian Federation." Biology in School(4): 32-37.
- Dushenkov, V. M. (1991). Ecology and culture. Ecology and culture, Krasnoiarsk.
- Dushenkov, V. M. (1991). "Biological olympiads." Biology in School(5): 57-62.
- Dushenkov, V. M. (1991). Class Insecta. Moscow.
- Dushenkov, V. M. and E. V. Dar'ina (1991). Populations of *Pterostichus oblongopunctatus* (F.) (Coleoptera, Carabidae) in the city forests. Problems of soil zoology, Novosibirsk.
- Dushenkov, V. M., N. V. Gerasimova and A. V. Alekhin (1991). The distribution of myriapods in the forests of the experimental station of Timiriazev Agricultural Academy. Problems of soil zoology, Novosibirsk.
- Dushenkov, V. M. and K. V. Makarov (1991). ""Microevolution" - a personal computer program." Biology in School(6): 38-40.
- Nikishov, A. I. and V. M. Dushenkov (1991). The Russian Association of Biology Teachers and ecological education. Ecology and culture, Krasnoiarsk.
- Sharova, I. C. and V. M. Dushenkov (1991). Biological strategies and methods of optimization the populations of ground beetles in the fields. 12. SIEEC, Kiev.
- Dushenkov, V. M. (1992). "A new approach to teaching science in Russian secondary schools." Science Education International **3**(2): 14-17.
- Dushenkov, V. M. (1993). "Biological Olympiads in the USSR." The American Biology Teacher **55**(7): 399-404.
- Dushenkov, V. M. (1993). "Organizing and conducting biological olympiads." Pedagogicheskoe obrazovanie **7**: 49-54.
- Komissarov, B. D., V. I. Sivoglasov and V. M. Dushenkov (1993). Russian standards for school education in biology. Basic level. Moscow, Institute obshchego obrazovania.
- Dushenkov, S., P. B. A. N. Kumar and I. Raskin (1994). "Phytoremediation potential of crop plants." Supplement to Plant Physiology **105**(1): 43.
- Kumar, P. B. A. N., S. Dushenkov, D. E. Salt and I. Raskin (1994). "Crop Brassicas and phytoremediation - a novel environmental technology." Cruciferae Newsletter **16**: 18-19.
- Kumar, P. B. A. N., V. Dushenkov and I. Raskin (1994). Crop Brassicas and phytoremediation - a novel environmental technology. ISHS Symposium on Brassicas. Ninth crucifera genetic workshop, Lisbon.
- Raskin, I., S. Douchenkov, N. P. B. A. Kumar and Y. Kapulnik (1994). Method for removing soluble metals from an aqueous phase. Application: WO  
WO, (Phytotech, Inc., USA). 32 pp.
- Raskin, I., N. P. B. A. Kumar and S. Douchenkov (1994). Phytoremediation of metals. USPTO, Phytotech, Inc. **5,364,451**.

- Raskin, I., N. P. B. A. Kumar and S. Douchenkov (1994). Phytoremediation of metals in soil using plants containing genetic vectors encoding metallothioneins. Application: US US, (PhytoTech, Inc., USA). 9 pp.
- Raskin, I., P. B. A. N. Kumar, S. Dushenkov, M. J. Blaylock and D. E. Salt (1994). Phytoremediation - Using plants to clean up soils and waters contaminated with toxic metals. Emerging technologies in hazardous waste management VI, Atlanta, Georgia.
- Raskin, I., P. B. A. N. Kumar, S. Dushenkov and D. E. Salt (1994). "Bioconcentration of heavy metals by plants." Current Opinion in Biotechnology **5**(3): 285-90.
- Salt, D. E., P. B. A. N. Kumar, S. Dushenkov and I. Raskin (1994). "Phytoremediation: A new technology for the environmental cleanup of toxic metals." Resour. Conserv. Environ. Technol. Metall. Ind., Proc. Int. Symp.: 381-4.
- Dushenkov, V., N. P. B. A. Kumar, H. Motto and I. Raskin (1995). "Rhizofiltration: the use of plants to remove heavy metals from aqueous streams." Environ. Sci. Technol. **29**: 1239-1245.
- Ensley, B., V. Dushenkov, I. Raskin and D. E. Salt (1995). Rhizofiltration: a new technology to remove heavy metals from aqueous streams. New remediation technology in the changing environmental arena, Littleton, Colorado, Society for Mining, Metallurgy, and Exploration, Inc.
- Kumar, N. P. B. A., V. Dushenkov, B. D. Ensley and I. Raskin (1995). The use of crop Brassicas in phytoextraction: a subset of phytoremediation to remove toxic metals from soils. 19th International Rapeseed Congress. Rapeseed today and tomorrow.
- Kumar, P. B. A. N., V. Dushenkov, H. Motto and I. Raskin (1995). "Phytoextraction: the use of plants to remove heavy metals from soils." Environmental Science and Technology **29**(5): 1232-8.
- Raskin, I., S. Douchenkov, Y. Kapulnik and N. P. B. A. Kumar (1995). Method of removing soluble metals from an aqueous phase. USPTO. USA, Phytotech, Inc. **5,393,426**.
- Raskin, I., S. Dushenkov, N. P. B. A. Kumar and D. Salt (1995). Rhizofiltration - using plants for remediation of heavy metals in water. Will plants have a role in bioremediation? Current topics in plant biochemistry, physiology and molecular biology, University of Missouri.
- Salt, D. E., M. Blaylock, P. B. A. N. Kumar, V. Dushenkov, B. D. Ensley, I. Chet and I. Raskin (1995). "Phytoremediation: a novel strategy for the removal of toxic metals from the environment using plants." Biotechnology **13**: 468-474.
- Blaylock, M. J., S. Dushenkov, D. Page, G. Montes, C. N. Vasudev and Y. Kapulnik (1996). Phytoremediation of a Pb contaminated Brownfield site in New Jersey. I&EC Special Symposium - Emerging Technologies in Hazardous Waste Management VIII, American Chemical Society, Birmingham, AL.
- Blaylock, M. J., C. Gussman, T. Ledder, O. Zakharova, Y. Smirnova, J. W. Huang, Y. Kapulnik and S. Dushenkov (1996). Phytoextraction of lead and cadmium contaminated soils. American Society of Agronomy Annual Meetings, Indianapolis, IN.
- Dushenkov, S., Y. Kapulnik, I. Raskin and B. Ensley (1996). Phytoremediation: a novel approach to an old problem. Global Environmental Biotechnology. Approaching the 2000, Boston, Northeastern University.
- Raskin, I., S. Dushenkov, Y. Kapulnik and N. P. B. A. Kumar (1996). Method for removing soluble metals from an aqueous phase using plants. Application: WO, (Rutgers, the State University of New Jersey, USA). 53 pp.
- Raskin, I., D. Gleba, R. Smith, D. E. Salt, S. Dushenkov, Y. Kapulnik and B. Ensley (1996). Using plant seedlings to remove heavy metals from water. Plant Physiology. **111**: 552.

- Blaylock, M. J., J. W. Huang, S. Dushenkov, M. P. Elless and C. M. Buzgo (1997). Reducing phytoremediation to practice: induction of hyperaccumulation on-site. American Society of Agronomy Annual Meetings. Anaheim, CA.
- Blaylock, M. J., D. E. Salt, S. Dushenkov, O. Zakharova, C. Gussman, Y. Kapulnik, B. D. Ensley and I. Raskin (1997). "Enhanced accumulation of Pb in Indian mustard by soil-applied chelating agents." Environ. Sci. and Technol. **31**(3): 860-865.
- Dushenkov, S. (1997). Plant-Assisted Removal of Chelated Heavy Metals and Radionuclides from Water. Phytotech, Inc., 1 Deer Park Dr., Suite I, Monmouth Junction, NJ 08852, NSF Grant No. 9560603. **69,109**.
- Dushenkov, S., Y. Kapulnik, M. Blaylock, B. Sorochinsky, I. Raskin and B. Ensley (1997). Phytoremediation: a novel approach to an old problem. Global Environmental Biotechnology. D. L. Wise. Amsterdam, Elsevier Science B.V.: 563-572.
- Dushenkov, S. and C. Orser (1997). Modern trends in phytoremediation. The state of our estuaries. 14th biennial estuarine research federation international conference. Providence, RI: 55.
- Dushenkov, S., D. Vasudev, Y. Kapulnik, D. Gleba, D. Fleisher, K. C. Ting and B. Ensley (1997). "Removal of uranium from water using terrestrial plants." Environ. Sci. Technol. **31**(12): 3468-3474.
- Ensley, B. D., M. J. Blaylock, S. Dushenkov, N. P. B. A. Kumar, Y. Kapulnik and J. Huang (1997). Hyperaccumulation of metals in plant shoots, useful for soil phytoremediation. Application: WO, (Phytotech, Inc., USA). 67 pp.
- Grodzinskii, D. M., S. Dushenkov, A. N. Mikheev, A. I. Prokhnevskii and M. V. Ruchko (1997). "Modification of <sup>137</sup>Cs accessibility to plants." Dopovidi Natsional'noi Akademii Nauk Ukraini(10): 179-182.
- Grodzinskii, D. M., S. Dushenkov, A. N. Mikheev, A. I. Prokhnevskii, M. V. Ruchko and B. V. Sorochinskii (1997). "Rhizofiltration as an approach to the cleanup of water contaminated with radionuclides." Dopovidi Natsional'noi Akademii Nauk Ukraini(8): 189-192.
- Grodzinsky, D., S. Dushenkov, A. Mikheev, A. Prokhnevsky, M. Ruchko and B. Sorochinsky (1997). "Dopovidi Natsional'noi Akademii Nauk Ukraini." Dokladi Nacionalnoi Akademii nauk Ukraini **10**: 179-182.
- Raskin, I., M. J. Blaylock, D. E. Salt, S. Dushenkov, O. Zakharova, C. Gussman, Y. Kapulnik and B. D. Ensley (1997). "Enhanced Accumulation of Pb in Indian Mustard by Soil-Applied Chelating Agents." Environmental Science and Technology **31**(3): 860-865.
- Salt, D. E., I. J. Pickering, R. C. Prince, D. Gleba, S. Dushenkov, R. D. Smith and I. Raskin (1997). "Metal accumulation by aquacultured seedlings of Indian mustard." Environ. Sci. and Technol. **31**(6): 1636-1644.
- Sorochinsky, B., S. Dushenkov, A. Mikheev, A. Prokhnevsky and M. Ruchko (1997). Decontamination of shell water bodies of 10 kilometers ChNPP zone using rhizofiltration. Problemi Chernobilskoi zoni otchuzdeniya. Kiev. **5**: in press.
- Sorochinsky, B., A. Mikheev, M. Ruchko, A. Prokhnevsky and S. Dushenkov (1997). Plant technologies for the clean-up of soils and water contaminated with heavy metals and radionuclides. The society for experimental biology, Annual meeting. Abstracts in animal and cell biology, University of Kent, Canterbury.
- Dushenkov, S. (1998). The use of crop plants in phytoremediation of radionuclide contaminated soil and water. Phytoremediation and Biomass Energy Conversion Workshop, Slavutych, Ukraine, Office of Scientific and Technical information, DOE.

- Dushenkov, S., D. Page and M. Fuhrmann (1998). "Evaluation of crop plants potential for the phytoextraction of <sup>137</sup>Cs." Warsaw '98, International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe, Symposium Proceedings, 4th, Warsaw, Sept. 15-17, 1998: 417-423.
- Dushenkov, S. M. (1998). Ecological risk management and phytoremediation technology. Ecological Society of America, 83rd Annual Meeting. Baltimore: 53.
- Elles, M. P., M. J. Blaylock, V. Dushenkov and J. W. Huang (1998). Factors affecting the bioavailability of Pb from contaminated soils. American Society of Agronomy, Annual meeting. Baltimore, Maryland: 348.
- Kucharski, R., L. L. Gray, J. M. Kuperberg and S. Dushenkov (1998). A case study: application of phytoremediation to heavy metal-contaminated soils, Katowice, Poland. Fourth international symposium and exhibition on the environmental contamination in Central and Eastern Europe. Warsaw, Poland: 53.
- Kucharski, R., A. Sas-Nowosielska, S. Dushenkov, J. M. Kuperberg, M. Pogrzeba and E. Malkowski (1998). "Technology of phytoextraction of lead and cadmium in Poland. Problems and achievements." Warsaw '98, International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe, Symposium Proceedings, 4th, Warsaw, Sept. 15-17, 1998: 181-184.
- Kucharski, R., A. Sas-Nowosielska, S. Dushenkov, M. Pogrzeba, J. M. Kuperberg and E. Malkowski (1998). Comparison of potential for Pb and Cd removal from contaminated soil by local and introduced cultivars of crop plants species. Fourth international symposium and exhibition on the environmental contamination in Central and Eastern Europe. Warsaw, Poland: 59.
- Raskin, I., N. P. B. A. Kumar and S. Douchenkov (1998). Phytoremediation of metals. USPTO. USA. **5,785,735.**
- Raskin, I., N. P. B. A. Kumar and S. Douchenkov (1998). Crop growth with harvesting for removal of metals from contaminated soils. Application: US  
US, (USA). 14 pp , Cont -in-part of U S 5,364,451.
- Ruchko, M., B. Sorochinsky, A. Mikheev, A. Prokhnevsky and S. Dushenkov (1998). The use of phytotechnology for clean-up of polluted aquatic systems. Fourth international symposium and exhibition on the environmental contamination in Central and Eastern Europe, Warsaw, Poland.
- Blaylock, M. J., M. P. Elless, J. W. Huang and S. M. Dushenkov (1999). "Phytoremediation of lead-contaminated soil at a New Jersey brownfield site." Remediation **9**(3): 93-101.
- Blaylock, M. J., J. W. Huang, M. P. Elless, S. Dushenkov and C. Orser (1999). "Optimizing metal uptake and accumulation in plants." Book of Abstracts, 217th ACS National Meeting, Anaheim, Calif., March 21-25: BIOT-042.
- Dushenkov, S. (1999). Evaluation of the phytoremediation potential of industrial hemp. XVI International Botanical Congress, St. Louis, USA.
- Dushenkov, S., A. Mikheev, A. Prokhnevsky, M. Ruchko and B. Sorochinsky (1999). "Phytoremediation of radiocesium-contaminated soil in the vicinity of Chernobyl, Ukraine." Environ. Sci. Technol. **33**(3): 469-475.
- Dushenkov, V. and I. Raskin (1999). "Phytoremediation: a new green revolution in ecology." Chemistry and Life(11-12): 48-49.
- Ensley, B. D., M. J. Blaylock, S. Dushenkov, N. P. B. A. Kumar and Y. Kapulnik (1999). Inducing hyperaccumulation of metals in plant shoots. USPTO. USA, Phytotech, Inc. **5,917,117.**

- Gleba, D., N. V. Borisjuk, L. G. Borisjuk, R. Kneer, A. Poulev, M. Skarzhinskaya, S. Dushenkov, S. Logendra, Y. Y. Gleba and I. Raskin (1999). "Use of plant roots for phytoremediation and molecular farming." Proc. Nat. Acad. Sci. USA **96**(11): 5973-5977.
- Huang, J. W., Blaylock, M.J. , M. P. Elless and S. Dushenkov (1999). Hydroponic culture of Brassica juncea enriched with micronutrients essential to human nutrition. 1999 Annual Meeting Abstracts of the American Society of Agronomy, Crop Science Society of America, and the Soil Science Society of America, Salt Lake City, Utah.
- Malkowski, E., A. Sas-Nowosielska, M. Pogrzeba, R. Kucharski, J. M. Kuperberg, S. Dushenkov and R. Gorecki (1999). "Effect of agents stimulating opening or closing of stomata on Pb and Cd accumulation in shoots of plants. The role in phytoextraction." Ochrona Srodowiska i Zasobow Naturalnych **18**: 403-411.
- Raskin, I., S. Dushenkov, Y. Kapulnik and N. P. B. A. Kumar (1999). Method for removing soluble metals from an aqueous phase. USPTO. USA, Phytotech, Inc. **5,876,484**.
- Salt, D. E., I. Raskin, N. P. B. A. Kumar and S. Douchenkov (1999). Conversion of metal oxidation states by phytoreduction. USPTO. USA. **5,928,406**.
- Dushenkov, S. (2000). Phytoremediation of radionuclides. Soilrem 2000. International conference on soil remediation, Hangzhou, China, Institute of soil science CAS (ISSCAS).
- Dushenkov, S. and Y. Kapulnik (2000). Phytofiltration of metals. Phytoremediation of toxic metals: using plants to clean up the environment. I. Raskin. New York, NY, Wiley-interscience, John Wiley and Sons, Inc.: 89-106.
- Dushenkov, S., M. Skarzhinskaya, D. Gleba and I. Raskin (2000). Bioengineering a phytoremediation plant. Fifth International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe, Prague, Florida State University.
- Dushenkov, V. and I. Raskin (2000). "Phytoremediation: "green" revolution in ecology." Agro XXI(9): 20.
- Dushenkov, V. M. and K. V. Makarov (2000). Summer field training course in invertebrate zoology. Moscow, Academia.
- Galimska-Stypa, R., J. Radziejewska-Lebrecht, A. Sas-Nowosielska, R. Kucharski and S. Dushenkov (2000). Microbiological changes in heavy metal contaminated soil during phytoextravtion. Fifth International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe, Prague, Florida State University.
- Galimska-Stypa, R., A. Sas-Nowosielska, R. Kucharski and S. Dushenkov (2000). Ecological risk caused by application of EDTA to soil. Fifth International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe, Prague, Florida State University.
- Kuperberg, J. M., C. M. Teaf, S. Dushenkov, C. Negri, R. Kucharski, A. Sas-Nowosielska and M. Kolta (2000). Phytoremediation - risk-based evaluation. Fifth International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe, Prague, Florida State University.
- Leizer, C., D. Ribnicky, A. Poulev, S. Dushenkov and I. Raskin (2000). "The composition of hemp seed oil and its potential as an important source of nutrition." Journal of Nutraceuticals, Functional & Medicinal Foods **2**(4): 35-53.
- Raskin, I., N. P. B. A. Kumar and S. Douchenkov (2000). Phytoremediation of metals. USPTO. USA, Edenspace Systems Corporation (Reston, VA). **6,159,270**.
- Dushenkov, S. (2001). Trends in phytoremediation of radionuclides. Sixth International Conference on the Biogeochemistry of Trace Elements, Guelph, Ontario, Canada.

- Dushenkov, S. M. (2001). Phytoremediation:state of the science. 2001 International Containment &Remediation Technology Conference and Exhibition, Orlando, Florida, USA.
- Kucharski, R., A. Sas-Nowosielska, E. Malkowski, M. Pogrzeba, S. M. Dushenkov and J. M. Kuperberg (2001). Application of phytoremediation to lead-contaminated soils. 2001 International Containment &Remediation Technology Conference and Exhibition, Orlando, Florida, USA.
- Sas-Nowosielska, A., R. Kucharski, M. Korcz, S. M. Dushenkov, J. M. Kuperberg and E. Malkowski (2001). "Strip Test " as a method for optimizing land characterization for phytoremediation of heavy metals. 2001 International Containment &Remediation Technology Conference and Exhibition, Orlando, Florida, USA.
- Dushenkov, S. (2002). Innovations in therapeutic agents discovery and development. *Advances in Therapeutic Agents Discovery and Development*, New Brunswick, NJ, Rutgers University.
- Dushenkov, S., M. Skarzhinskaya, K. Glimelius, D. Gleba and I. Raskin (2002). "Bioengineering of a phytoremediation plant by means of somatic hybridization." *International Journal of Phytoremediation* **4**(2): 117-126.
- Barocsi, A., Z. Csintalan, L. Kocsanyi, S. Dushenkov, J. M. Kuperberg, R. Kucharski and P. I. Richter (2003). "Optimizing phytoremediation of heavy metal-contaminated soil by exploiting plants' stress adaptation." *International Journal of Phytoremediation* **5**(1): 13-23.
- Dushenkov, S. (2003). "Trends in phytoremediation of radionuclides." *Plant and Soil* **249**(1): 167-175.
- Dushenkov, S. (2003). The virtues of an evolutionary biology education. Education Symposium-The Added Value of Training in Evolutionary Biology. Evolution 2003: The annual Joint Meeting of the Society for the Study of Evolution, Society of Systematic Biologists, and American Society of Naturalists, Chico, CA.
- Ho, C.-T., G. Ghai, S. Sang, J.-W. Jhoo, M.-T. Huang, R. T. Rosen and S. Dushenkov (2005). Preparation of benzotropolone derivatives as antioxidants and anti-inflammatory agents. U.S. Pat. Appl. Publ. USA: 16.
- Shiff, S. J., N. E. Marcon, D. Chen, S. Zanati, M. Cirocco and S. Dushenkov (2005). Orange peel extract and CRC chemoprevention:aberrant crypt foci in the human colon as a surrogate endpoint. Amer Assoc Cancer Res, Anaheim, CA, American Association of Cancer research.
- Dushenkov, S., D. Evans, P. Lucas-Schnarre and J. B. Hirsch (2006). Compositions comprising theaflavin for the prevention and treatment of conditions associated with inflammation. Application: WO, (Wellgen, Inc., USA). 88pp.
- Evans, D. A., J. B. Hirsch and S. Dushenkov (2006). "Phenolics, inflammation, and nutrigenomics." *Journal of the Science of Food and Agriculture* **86**(15): 2503-2509.
- Ho, C.-T., N. Bai, Z. Dong, A. M. Bode and S. Dushenkov (2006). Bioactive compounds and methods of uses thereof. Application: US, (USA). 70 pp.
- Ho, C.-T., G. Ghai, S. Sang, J.-W. Jhoo, M.-T. Huang, R. T. Rosen and S. Dushenkov (2006). Benzotropolone derivatives and modulation of inflammatory response. USPTO. United States, Rutgers, The State University of New Jersey. **7,087,790**.
- Ho, C.-T., S. Li, M.-H. Pan, C.-Y. Lo and S. Dushenkov (2006). "Bioactive hydroxylated polymethoxyflavones from citrus processing by-products." *Abstracts of Papers, 232nd ACS National Meeting, San Francisco, CA, United States, Sept. 10-14, 2006*: AGFD-058.
- Huang, M.-T., Y. Liu, D. Ramji, C.-Y. Lo, G. Ghai, S. Dushenkov and C.-T. Ho (2006). "Inhibitory effects of black tea theaflavin derivatives on 12-O-tetradecanoylphorbol-13-acetate-

- induced inflammation and arachidonic acid metabolism in mouse ears." Molecular nutrition & food research **50**(2): 115-22.
- Sergeev, I. N., S. Li, J. Colby, C.-T. Ho and S. Dushenkov (2006). "Polymethoxylated flavones induce Ca<sup>2+</sup>-mediated apoptosis in breast cancer cells." Life Sciences **80**(3): 245-253.
- Dushenkov, S. and D. Evans (2007). Orange polymethoxylated flavones for managing adipocyte fat accumulation. Application: WO, (Wellgen, Inc., USA). 49pp.
- Dushenkov, V. and I. Raskin (2007). Global Institute for Bioexploration (GIBEX). ISTC targeted initiative DRUG DESIGN AND DEVELOPMENT. Review of ISTC Projects to date and next steps towards sustainability, Central House of Scientists. Prechistenka, 16, Moscow, Russia, ISTC.
- Dushenkov, V. M., M. A. Lila and I. Raskin (2007). Global bioexploration and biodiversity conservation Ecological Characteristics of Biodiversity, Khorog, Tajikistan, Academy of Sciences of the Republic of Tajikistan
- Ho, C.-T., G. Ghai, S. Sang, J.-W. Jhoo, M.-T. Huang, R. T. Rosen and S. Dushenkov (2007). Benzotropolone derivatives and modulation of inflammatory response. USPTO. United States, Wellgen, Inc., Rutgers, The State University of New Jersey. **7,288,680**.
- Ho, C.-T., S. Li, M.-H. Pan, C.-Y. Lo and S. Dushenkov (2007). Hydroxylated polymethoxyflavone compositions. Application: WO, (Rutgers, The State University of New Jersey, USA). 86pp.
- Li, S., C.-Y. Lo, M.-H. Pan, I. N. Sergeev, S. Dushenkov and C.-T. Ho (2007). "The source and biological activity of hydroxylated polymethoxyflavones." Abstracts of Papers, 234th ACS National Meeting, Boston, MA, United States, August 19-23, 2007: AGFD-234.
- Li, S., M.-H. Pan, C.-S. Lai, C.-Y. Lo, S. Dushenkov and C.-T. Ho (2007). "Isolation and syntheses of polymethoxyflavones and hydroxylated polymethoxyflavones as inhibitors of HL-60 cell lines." Bioorganic & Medicinal Chemistry **15**(10): 3381-3389.
- Pan, M.-H., Y.-S. Lai, C.-S. Lai, Y.-J. Wang, S. Li, C.-Y. Lo, S. Dushenkov and C.-T. Ho (2007). "5-Hydroxy-3,6,7,8,3',4'-hexamethoxyflavone Induces Apoptosis through Reactive Oxygen Species Production, Growth Arrest and DNA Damage-Inducible Gene 153 Expression, and Caspase Activation in Human Leukemia Cells." Journal of Agricultural and Food Chemistry **55**(13): 5081-5091.
- Sergeev, I. N., C.-T. Ho, S. Li, J. Colby and S. Dushenkov (2007). "Apoptosis-inducing activity of hydroxylated polymethoxyflavones and polymethoxyflavones from orange peel in human breast cancer cells." Molecular Nutrition & Food Research **51**: 1478-1484.
- Struwe, L., S. Dushenkov, S. Eisenman, M. Tadych and I. Raskin (2007). International education in biodiversity and biodocumentation - collaborative approaches. Ecological Characteristics of Biodiversity, Khorog, Tajikistan, Academy of Sciences of the Republic of Tajikistan
- Dushenkov, V., J. Akimaliev, K. C. Buriev, M. A. Lila, Y. Nuraliev, G. Pichkhadze, L. Struwe, J. F. White, G. J. Zylstra and I. Raskin (2008). The role of the ICBG program in building new pharmaceutical capabilities in Central Asia. First Congress of Phytotherapist and Phytopharmacologists of Tajikistan, Dushanbe, Tajikistan International Institute for Study of Avicenna Heritage and Pharmacology.
- Dushenkov, V. and I. Raskin (2008). "New strategy for the search of natural biologically active substances." Russian Journal of Plant Physiology **55**(4): 564-567.
- Ho, C.-T., N. Bai, Z. Dong, A. M. Bode and S. Dushenkov (2008). Bioactive compounds and methods of uses thereof USPTO. USA, Wellgen, Inc., The Regents of the University of Minnesota, Rutgers, the State University of New Jersey **7,351,739**: 67.
- Ho, C.-T., C.-Y. Lo, D. Tan, Y. Wang and S. Dushenkov (2008). Methods of reducing reactive carbonyl species. Application: US

US, (USA). 15pp.

- Lai, C.-S., S. Li, C.-Y. Chai, C.-Y. Lo, S. Dushenkov, C.-T. Ho, M.-H. Pan and Y.-J. Wang (2008). "Anti-inflammatory and antitumor promotional effects of a novel urinary metabolite, 3',4'-didemethylnobiletin, derived from nobiletin." Carcinogenesis **29**(12): 2415-24.
- Li, S., C.-Y. Lo, S. Dushenkov and C.-T. Ho (2008). "Polymethoxyflavones: chemistry, biological activity, and occurrence in orange peel." ACS Symposium Series **987**(Dietary Supplements): 191-210.
- Li, S., C.-Y. Lo, S. Dushenkov and C.-T. Ho (2008). "Isolation and purification of polymethoxyflavones as substrates for efficacy studies." ACS Symposium Series **987**(Dietary Supplements): 211-215.
- Li, S., D. Tan, S. Dushenkov and C.-T. Ho (2008). "Polymethoxyflavones: metabolite identification and pathway." ACS Symposium Series **987**(Dietary Supplements): 216-232.
- Li, S., Y. Wang, S. Dushenkov and C.-T. Ho (2008). "Bioavailability of polymethoxyflavones." ACS Symposium Series **987**(Dietary Supplements): 233-245.
- Pan, M.-H., J.-H. Gao, C.-S. Lai, Y.-J. Wang, W.-M. Chen, C.-Y. Lo, M. Wang, S. Dushenkov and C.-T. Ho (2008). "Antitumor activity of 3,5,4'-trimethoxystilbene in COLO 205 cells and xenografts in SCID mice." Molecular carcinogenesis **47**(3): 184-96.
- Pan, M.-H., C.-S. Lai, S. Dushenkov and C.-T. Ho (2009). "Modulation of Inflammatory Genes by Natural Dietary Bioactive Compounds." Journal of Agricultural and Food Chemistry **57**(11): 4467-4477.
- Sergeev, I. N., S. Li, C.-T. Ho, N. E. Rawson and S. Dushenkov (2009). "Polymethoxyflavones Activate Ca<sup>2+</sup>-Dependent Apoptotic Targets in Adipocytes." Journal of Agricultural and Food Chemistry **57**(13): 5771-5776.
- Wu, H., S. Dushenkov, C.-T. Ho and S. Sang (2009). "Novel acetylated flavonoid glycosides from the leaves of *Allium ursinum*." Food Chemistry **115**(2): 592-595.