

# Institut für Strahlenschutz

## AG Risikoanalyse (ISAR)

### Publikationen aus der Arbeitsgruppe im Jahr 2001:

#### BEITRÄGE IN INTERNATIONALEN FACHZEITSCHRIFTEN

Beresford, N.A.\*, Voigt, G., Wright, S.M\*, Howard B.J.\*, Bernett, C.L.\*, Prister, B.\*, Balonov, M.\*, Ratnikov, A.\*, Travnikova, I.\*, Gillett.A.G\*: **Self-help countermeasure strategies for populations living within contaminated areas of Belarus, Russia and the Ukraine.**J. Environ. Radioactiv. 56, 215-239 (2001)

Fesenko, S.\*, Jacob, P., Alexakhin R.\*, Sanzharova, N.I.\*, Panov, A.\*, Fresenko, G.\*, Cecille, L. : **Important factors governing exposure of the population and countermeasure application in rural settlement of the Russian Federation in the long term after the Chernobyl accident.**J Environ. Radioactiv. 56, 215-240 (2001)

Friedland, W., Li, W.B., Jacob, P., Paretzke, H.G.: **Simulation of exon deletion mutations induced by low-LET Radiation at the HPRT locus.** Radiat. Res. 155, 703-715 (2001)

Gillett, A.\*, Crout, N.\*, Absalom, J.\*, Wright, S.\*, Young, S.\*, Howard, B.\*, Barnett, C.\*, McGrath, S.\*, Voigt, G.: **Dynamic and spatial prediction of radiocesium transfer to food products.** Adv Environ. Res. 40, 227-235 (2001)

Göksu, H.Y., Schwenk, P.\*, Semiochkina, N.: **Investigation of the thermal stability of 210°C TL peak of quartz and dating the components of terrazzo from the monastery church of Tegernsee.** Radiat. Meas. 33, 785-792 (2001)

Hazelton, W.D.\*, Luebeck, E.G.\*, Heidenreich, W.F., Moolgavkar, H.\*: **Analysis of a historical cohort of Chinese tin miners with arsenic, radon, cigarette smoke, and pipe smoke exposures using the biologically based two-stage clonal expansion model.** Radiat. Res. 156, 78-94 (2001)

Heidenreich, W.F., Atkinson, M., Paretzke, H.G.: **Radiation induced cell inactivation can increase the cancer risk.** Radiat. Res. 155, 870-872 (2001)

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Heidenreich, W.F., Paretzke, H.G.: **City effects in the atomic bomb survivors data.** Math. Comput. Model. 33, 1431-1438, (2001)

Heidenreich, W.F., Paretzke, H.G.: **The two-stage clonal expansion model as an example of a biologically based model of radiation-induced cancer.** Radiat. Res. 156, 678-681 (2001)

Li, W., Friedland, W., Pomplun, E.\*, Jacob, P., Paretzke, H.G., Lassmann, M.\*, Reiners, C.\*: **Track structures and dose distributions from decays of <sup>131</sup>I and <sup>125</sup>I in and around water spheres simulating micrometastases of differentiated thyroid cancer.** Radiat. Res. 156, 419-429 (2001)

Howard, B.J.\*, Beresford, N.A.\*, Voigt, G.: **Countermesures for animal products: A review of effectiveness and potential usefulness after an accident.** Environ. Radioactiv. 56, 115-137 (2001)

Hütt, G.\*, Göksu, H.Y., Jaek, I.\*, Hiekkanen, M.\*: **Luminescence dating of somero sacristy, SW Finland using the 210°C TL peak of quartz.** Quaternary Sci. Rev. 20, 773-777 (2001)

Jacob, P., Fesenko, S.\*, Firsakova, S.K.\*, Likhtarev, I.A.\*, Schotola, C., Alexakhin, R.M\*, Zhuchenko, Y.M.\*, Kovgan, L.\*; Sanzharova, N.I.\*, Ageyets, V.\*: **Remediation strategies for rural territories contaminated by the Chernobyl accident.** J. Environ. Radioactiv. 56, 51-76 (2001)

Koch-Steindl, H., Pröhl, G.: **Considerations on the behaviour of long-lived radionuclides in the soil.** Radiat. Environ. Biophys. 40, 93-104 (2001)

Romanyuka, A.A.\*, Seltzer, S.M.\*, Desrosiers, M.\*, Ignatiev, E.A., Ivanuv, D.V.\*, Bayankin, S.\*, Degteva, M.O., Eichmiller, F.C.\*, Wieser, A., Jacob, P.: **Correction factors in the EPR dose reconstruction for the residents of the middle and lower Tеча riverside.** Health Phys. 81, 554-566 (2001)

Slavik, O.\*; Fulajtar, E.\*, Müller, H., Pröhl, G.: **Model for food chain transfer and dose assessment in areas of the Slovak Republik.** Radiat. Environ. Biophys. 40, 59-67 (2001)

Voigt, G. (Editor): **Remediation strategies.** J. Environ. Radiat. 56, 7-9 (2001)

Wieser, A., El-Faramawy, N.\*, Meckbach, R.: **Dependencies of the radiation sensitivity of human tooth enamel in EPR dosimetry.** Appl. Radiat Isotop. 54, 793-799 (2001)

## **ÜBERSICHTSARTIKEL, TAGUNGS- UND BUCHBEITRÄGE, U.Ä.**

Dingfelder, M., Friedland, W.: **Basic data for track structure simulations: Electron interaction cross sections in liquid water.** In: Advanced Monte Carlo for Radiation Physics, Particle Transport Simulation and Applications: Proceedings of the Monte Carlo 2000 Conference, Lisbon, 23-26 October 2000 (Eds.: A. Kling et al.) Berlin: Springer-Verlag, 267-272 (2001)

Golikov, V.Yu.\*, Balonov, M. I.\*, Jacob, P.: **Model of external exposure of population living in the areas contaminated after the Chernobyl accident and its validation.** In: 10th International Congress of the International Radiation Protection Association, May 14-19, 2000, Hiroshima (Ed. The International Radiation Protection Association) T – 19 (1) – 2 (2000)

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Paretzke, H.G.: **Konzentrationen und Wirkungen von Radionukliden in Böden und Pflanzen.** In: Guderian, R. (ed.): Handbuch der Umweltveränderungen und Ökotoxikologie. Berlin: Springer Verlag, Berlin, Heidelberg New York, 149-173 (2001).

Voigt, G., Semiochkina, N., Absalom, N.\*, Crout, J.\*, Gillett, N. M.J.\*, Beresford, N.A., Howard, B.J., Wrights, B.J.\*, Burrough, P.\*, Van der Perk, M.: **Environmental Decision Support Systems for Restoration Strategies of Contaminated Ecosystems.** EU-Bericht EUR 18193 EN, Brüssel/Luxembourg, 126-132 (2000)

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## **GSF-BERICHTE UND BERICHTE ANDERER INSTITUTIONEN**

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Whicker, F.W., Bunzl, K., Dixon, P., Scott, M., Sheppard, S., Voigt, G.: **Quantities, units and terms in radioecology** ICRU Report 56, Journal of the ICRU, 1, 1-48 (2001)

Wieser, A., Aragno, D.\*, Baiankine, S.\*, Bougrov, N.G.\*, Burmistrov, D.S.\*, Degteva, M.O.\*, Fattibene, P.\*, Glagolenko, Y.\*, Göksu, H.Y., Ignatiev, A.\*, Jacob, P., Koshta, A.\*, Kozheurov, V.P.\*, Meckbach, R., Okladnikovak, N.\*, Onori, S.\*, Presello, C., Romanyukha, A.\*, Shishkince, E.A.\*Snigiryova, G.\*, Tolstykh, E.I.\*, Vasilenko, E.\*, Vorobiova, M.I.\*, Vozilova, A.\*: **Dose reconstruction for workers of Mayak and for the Tcha riverside residents.** GSF-Bericht 19/00, 1-67 S. (2001)

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