

Diercking, R. und **Hansen, P.-D.** (1974): Aufarbeitung von einzelligen Algen zur gaschromatographischen Bestimmung des Lindans. Ber. dt. wiss. Kommn. Meeresforsch. 23, 326

Hansen, P.-D. (1979): Experiments on the Accumulation of Lindane (⊕ - BHC) by the Primary Producers *Chlorella spec.* and *Chlorella pyrenoidosa*. Arch. Environm. Contam. Toxicol. 8, 721-731

Hansen, P.-D. (1980): Uptake and transfer of the chlorinated hydrocarbon Lindan (⊕ - BHC) in a laboratory freshwater food chain. Environm. Pollution (Series A), 21, 97-108

V. Westernhagen, H., Rosenthal, H., Dethlefsen, V., Ernst, W., Harms, U. and **Hansen, P.-D.** (1981): Bioaccumulating substances and reproductive success in baltic flounder *Platichthys flesus*. Aquatic Toxicology, 1, 85-99

Leschber, R. und **Hansen, P.-D.** (1982): Akkumulationsprobleme - dargestellt am Beispiel schwer und nicht abbaubarer organischer Stoffe. Korrespondenz Abwasser, 29, 12, 917-921

Clodius, C.-D., **Hansen, P.-D.**, Leschber, R., Schumann, H. und Trénel, J. (1982): Abwasser- und Gewässerschutzforschung in Berlin. Erste Betriebserfahrungen aus dem Abwasser- und Umwelthygiene beim Gewässerschutz des Versuchsfeldes für spezielle Fragen der Umwelthygiene. Korrespondenz Abwasser, 29, 2, 84-89

Hansen, P.-D., Addison, R.F. and Willis, D.E. (1983): Hepatic Microsomal O-De-Ethylases in cod (*Gadus morrhua*): Their induction by Aroclor 1254 but not by Aroclor 1016. Comp. Biochem. Physiol. Vol. 74C, 1, 173-175

Filip, Z., Dizer, H. und **Hansen, P.-D.** (1983): Mikrobiologische Untersuchungen an PVC-Rieselplatten und Ablagerungen in einem Naßkühlturm. Zbl. Bakt. Hyg., I. Abt. Orig. B 177, 490-498

Hansen, P.-D. (1983): Wirkungsbezogene Biotestverfahren - Ökologische Teste. In: Zellstoffabwasser und Umwelt, Hrsg. Aurand, K. und H. Irmer. Schriftenreihe des Vereins für Wasser-, Boden- und Lufthygiene e.V., Bd. 56, Gustav Fischer Verlag Stuttgart (1983), 203-211

Hansen, P.-D. und Stehfest, H. (1984): Ermittlung von NTA-Abbaukonstanten für Untersuchungen zur Umwelt-verträglichkeit von Nitrilotriessigsäure. In: Studie über die aquatische Umweltverträglichkeit von Nitrilotriacetat (NTA). Hrsg. von der NTA-Koordinierungsgruppe im Hauptausschuß Phosphate und Wasser der Fachgruppe Wasserchemie in der Ges. Dt. Chemiker durch H. Bernhardt et al.- 1. Auflage Verlag Hans Richarz, Sankt Augustin (1984), 385-398

Hansen, P.-D. (1984): Bioteste - Stand und Entwicklung. Fischteste - wirkungsbezogene Biotestverfahren - ökologische Teste. In: Gewässerschutz, Hrsg. Kühn, R. und R. Leschber, Schriftenreihe des Vereins für Wasser-, Boden- und Lufthygiene e.V., Bd. 57, Gustav Fischer Verlag, Stuttgart (1984), 109-117

Renwranz, L., Daniel, I. and **Hansen, P.-D.** (1985):

Lectin - Binding to Hemocytes of *Mytilus edulis*. *Developmental and Comparative Immunology (DCI)*, 9, 203-210

Hansen, P.-D., V. Westernhagen, H. and Rosenthal, H. (1985):

Chlorinated Hydrocarbons and hatching success in baltic herring spring spawners. *Marine Environmental Research*, 15, 59-76

Hansen, P.-D. (1985): Phosphorus Load and Eutrophication of Berlin's Waterways simulated in an Artificial Stream. In: *Management Strategies for Phosphorus in the Environment*, Selper Ltd., London (1985), 151-159

Hansen, P.-D. (1985): Umwelthygienische Bewertungen von Abwassereinleitungen mit Biotests. In: *Schriftenreihe des Vereins für Wasser-, Boden- und Lufthygiene e.V.*, Bd. 65, Gustav Fischer Verlag, Stuttgart (1985), 271-278

Hansen, P.-D. (1986): Nitrioltriacetat (NTA) in den Berliner Gewässern und der Elbe. Nitrioloacetic Acid (NTA) in Berlin Waterways and in the Elbe. *Vom Wasser*, Bd. 69, 167-176

Hansen, P.-D. (1986): Das "Wabolu-Aquatox" zur integralen Erfassung von Schadstoffen im Wasser. The "Wabolu-Aquatox" for Integral Monitoring of Water Pollutants. *Vom Wasser*, Bd. 67, 221-235

Bresch, H., Gode, P., Hamburger, B., **Hansen, P.-D.**, Juhnke, I., Krebs, F., Lillelund, K., Markert, M., Munk, R., Nagel, R., Nusch, E.A., Scheubel, J. and Spieser, O.H. (1986): Deliberations and investigations of the DIN working group "fish test" on a long-term test according to the German Chemicals Act. *Z. Wasser Abwasser Forsch.* 19, 47-51.

Hansen, P.-D. (1987): Möglichkeiten der Umweltverträglichkeitsprüfung von Schadstoffen. In: *Gesundheit und Umwelt '86*, Hrsg. Hildebrandt et al., bga Schriften, Bd. 12/86, MMV Medizin Verlag, München (1987), 22-25

Hansen, P.-D. (1987): Biologische Testverfahren In: *Bioakkumulation in Nahrungsketten.- Zur Problematik der Akkumulation von Umweltchemikalien in aquatischen Systemen. Ergebnisse aus dem Schwerpunktprogramm "Nahrungskettenprobleme" der Deutschen Forschungsgemeinschaft.* Hrsg. K. Lillelund, U. de Haar, H.-J. Elster, L. Karbe, I. Schwoerbel, W. Simonis. VCH Verlagsgesellschaft, Weinheim (1987), 152-158

Hansen, P.-D. (1987): Anreicherung, Speicherung und zelluläre Wirkung von Schadstoffen, insbesondere von Pestiziden und PCB, in den Gliedern einer Nahrungskette im Süßwasser. In: *Bioakkumulation in Nahrungsketten.* ebda., 207-210

Hansen, P.-D. (1988): Wirkungsbezogene Biotestverfahren - Gefährliche Stoffe - Qualitätsziele zum Schutz oberirdischer Gewässer. *Effect-related Bioassay Methods - Dangerous Substances - Quality objectives for the Protection of Surface Waters.* *Vom Wasser*, Bd. 70, 187-196

- Hansen, P.-D.** (1989): Ecological requirements for the quality objectives in the aquatic environment, *Tenside - Detergents*, 2/89, 80-84
- Hansen, P.-D.** (1989): Mikroorganismen als biologische Warnsysteme. - Ihre Verwendung in der Überwachung der aquatischen Umwelt. *Bundesgesundheitsblatt*, 32, 4, 137-139
- Hansen, P.-D.**, Schwanz-Pfützner, I. und Tillmanns, G.M. (1989): Ein Fischzellkulturtest als Ergänzungs- oder Ersatzmethode zum Fischtest. *Bundesgesundheitsblatt*, 32, 8, 343-346
- Hansen, P.-D.** (1989): Biologische Toxizitätsteste, Teil III: Ausgewählte Testverfahren. *Umwelt-wissenschaften und Schadstoff-Forschung UWSF-Z.Umweltchem.Ökotox.* 3, 26-27
- Hansen, P.-D.**, Pluta, H.-J. and Beeken, J.A. (1989): Biosensors for On-Line Monitoring of the Waterways and for Sample Taking Aimed at Relieving Disturbances, *GBF Monogr.*, 1989, 13 (Biosensors); 113-116
- Hansen, P.-D.** (1990): Nachweis gefährlicher Stoffe und ihre Definition durch Biotestverfahren. In: *Halogenkohlenwasserstoffe in Wasser und Boden*. Hrsg. Hagendorf und Leschber, Schriftenreihe des Vereins für Wasser-, Boden- und Lufthygiene, 82. Gustav Fischer Verlag Stuttgart u. New York (1990)
- Hansen, P.-D.**, Bock, R. and Brauer, F. (1991): Investigations of phagocytosis concerning the immunological defence mechanism of *Mytilus edulis* using a sublethal luminescent bacterial assay (*Photobacterium phosphoreum*). *Comp. Biochem. Physiol.* Vol. 100C, No 1/2, 129-132
- Addison, R.F., **Hansen, P.-D.** and Wright, E.C. (1991): Hepatic Mono-Oxygenase Activities in American Plaice (*Hippoglossoides platessoides*) from the Miramichi Estuary, N.B. Canadian Technical Report of Fisheries and Aquatic Sciences No. 1800
- Nagel, R., Bresch, H., Caspers, N., **Hansen, P.-D.**, Markert, M., Munk, R., Scholz, N. and Ter Höfte, B.B. (1991). Effect of 3,4-Dichloroaniline on the Early Life Stages of the Zebrafish (*Brachydanio rerio*): Results of a Comparative Laboratory Study. *Ecotoxicology and Environmental Safety* 21, 157-164
- Addison, R.F., Pluta, H.J. and **Hansen, P.-D.** (1991): Absence of MFO-Induction in several species of North Sea flatfish (*Platichthys flesus*, *Limanda limanda* and *Solea solea*) following treatment with PCB substitute with Ugilec 141, *Mar. Env. Res.* Vol. 31, 137-144
- Christmann, W., Hagendorf, U., Hahn, J., **Hansen, P.-D.** und Reincke, H. (1991): Nachweis organischer Halogenverbindungen im Gewässer durch Gewebeprobe. *Korrespondenz Abwasser*, 38, 8, 1028-1032
- Ernst, W., Weigelt, S., Rosenthal, H. and **Hansen, P.-D.** (1991): Testing Bioconcentration of Organic Chemicals with the Common Mussel (*Mytilus edulis*). In: *Bioaccumulation in Aquatic Systems*. Eds. R. Nagel and R. Loskill. VCH Verlagsgesellschaft, Weinheim, 99-131

Hansen, P.-D. (1992): Phagocytosis in *Mytilus edulis*, a System for Understanding the Sublethal Effects of Anthropogenic Pollutants and the Use of AOX as an Integrating Parameter for the Study of Equilibria between Chlorinated Organics in *Dreissena polymorpha* Following Long Term Exposures. In: *Limnologie aktuell*, Vol 4, Eds. Neumann & Jenner: The Zebra Mussel *Dreissena polymorpha*, Gustav Fischer Verlag, Stuttgart, Jena, New York (1992).

Hansen, P.-D. (1992): On-Line Monitoring mit Biosensoren am Gewässer zur ereignisgesteuerten Probenahme. *Acta hydrochim. hydrobiol.* 20, 2, 92-95

Hansen, P.-D. (1992): Suborganismische Testverfahren - Anwendungsbereich und Bewertungsfrage, Biologische und biochemische Meßverfahren -Methoden, Anwendungsbereiche, Interpretationen. *Gewässerschutz, Wasser, Abwasser*, 134, 151-168

Herbert, A. und **Hansen, P.-D.** (1992): Erfassung des erbgutverändernden Potentials von Gewässern durch Messung von DNS-Schäden mittels alkalischer Denaturierungsverfahren. In: *Biologische Testverfahren*. Eds. K. Steinhäuser und P.-D. Hansen. Schriftenreihe Wasser-, Boden- und Lufthygiene, Bd. 89, Gustav Fischer Verlag; Stuttgart, Jena, New York (1992), 745-753

Hansen, P.-D. (1992): Suborganismische Testverfahren - Anwendungsbereich und Bewertungsfrage. In: *Biologische Testverfahren*. Eds. K. Steinhäuser und P.-D. Hansen. Schriftenreihe Wasser-, Boden- und Lufthygiene, Bd. 89, Gustav Fischer Verlag; Stuttgart, Jena, New York (1992), 705-720

Hansen, P.-D. (1993): Enzymatische Verfahren zur Erfassung der Biotransformation (Entgiftungsaktivität) in der Fischleber - ein Beitrag zum biologischen Effektsmonitoring. In: *Biochemische Methoden zur Schadstofffassung im Wasser - Möglichkeiten und Grenzen*. Hrsg. Fachgruppe Wasserchemie in der GDCh, VCH Verlagsgesellschaft, Weinheim (1993), 54-62

Hansen, P.-D. (1993): Schadstoffwirkungen auf das Immunsystem. In: *Biochemische Methoden zur Schadstoff-erfassung im Wasser - Möglichkeiten und Grenzen*. Hrsg. Fachgruppe Wasserchemie in der GDCh, VCH Verlagsgesellschaft, Weinheim (1993), 107-121

Hansen; P.-D. (1993): Regulatory Significance of Toxicological Monitoring by Summarizing Effect Parameters. In: *Ecotoxicology Monitoring*. Ed. Mervyn Richardson, VCH Publishers, New York (1993).

Hansen; P.-D. und Pluta, H.-J. (1994): Entgiftungsaktivität in den Fischen des Wattenmeeres.- In: *Warnsignale aus dem Wattenmeer*. Hrsg. Lozán, J.L., Racher, E., Reise, K., v. Westernhagen, H. u. Lenz, W., Blackwell Wissenschafts-Verlag, Berlin 1994, 241-244

Hansen; P.-D. (1994): The potential applications of the environmental effects monitoring tools. - In: *Use of Aquatic Invertebrates as Tools for Monitoring of Environmental Hazards*. Ed. Müller, Werner E.G., GustavFischer Verlag, Stuttgart Jena New York 1994, 17-34.

- Hansen, P.-D.** (1995): Assessment of Ecosystem Health: Development of Tools and Approaches. - In: Evaluating and Monitoring the Health of Large-Scale Ecosystems. Edited by Pappert, D., Gaudet, C. and Calow, P., Series I: Global Environmental Change, Vol. 28. Springer-Verlag Berlin Heidelberg New York (1995), 195-217
- Hansen; P.-D.** (1995): The Potential and Limitations of New Technical Approaches to Ecotoxicology Monitoring. - In: Environmental Toxicology Assessment. Edited by Mervyn Richardson, Taylor & Francis, London (1995),13-28.
- Rao, S.S., Burnison, B.K., Efler, S., Wittekindt, E., **Hansen, P.-D.** and Rokosh, D.A., (1995): Assessment of Genotoxic Potential of Pulp mill Effluent and an Effluent fraction Using AMES- Mutagenicity and umuC-Genotoxicity Assays. Environmental Toxicology and Water Quality - An International Journal. 10, 301-305
- Côté, C., Blaise, C., Delisle, C., Meighen, E.A. and **Hansen, P.-D.** (1995): A miniaturized Ames test employing bioluminescent strains of Salmonella typhimurium. Mutation Research, 345, 137-146
- Schulz, M., Lewald, B., Kohlpöth, M., Rusche, B., Lorenz, K. H. J., Unruh, E., **Hansen, P.-D.**, Miltenburger, H.G. (1995): Fischzelllinien in der toxikologischen Bewertung von Abwasserproben. ALTEX,12, 4, 95 188-195
- Hansen, P.-D.** (1996): Grenzwerte und Zielvorgaben.- In: Gewässergütekriterien, Deutsche Forschungsgemeinschaft - Senatskommission für Wasserforschung, Mitteilung 13. Hrsg. H. Frimmel, VCH Verlag, Weinheim, 7-26.
- Hansen, P.-D.** (1996): Bioassays on Sediment Toxicity. In: Sediments and Toxic Substances - Environmental Effects and Ecotoxicity. Eds. Calmano and Förster, Springer Berlin, Heidelberg (1996), 179-196.
- Wittekindt, E., Werner, M., Reinicke, A., Herbert, A. and **Hansen, P.-D.** (1996): A Microtiter-Plate Urease Inhibition Assay - Sensitive, Rapid and Cost-Effective Screening for Mercury and Other Heavy Metals in Water. Environmental Technology, Vol. 17, 597-603
- Rao, S.S., Neheli, T.A., Carey, J. H.,Herbert, A., **Hansen, P.-D.** (1996): DNA Alkaline Unwinding Assay for Monitoring the Impact of Environmental Genotoxins. Environmental Toxicology and Water Quality - An International Journal. 11, 351-354
- Hansen. P.-D.** (1997): Ecotoxicology and Landscape Planning. Quality Assurance, 5, 3, 231-241
- Hansen, P.-D.** and V. Usedom, A. (1997: New biosensors for environmental analysis. In: Frontiers in Biosensorics II, Eds. F.W. Scheller, F. Schubert, J. Fedrowitz, Birkhäuser Verlag, Basel, Boston und Berlin, 109-120
- Hansen, P.-D.** and Herbert, A. (1998): Small-scale in vitro Genotoxicity Tests for Bacteria and Invertebrates. In: Microscale Aquatic Toxicology - Advances, Techniques and Practice - Eds. P.G. Wells, K. Lee and C. Blaise, CRC Lewis Publishers, Florida, 237-252

Herbert, A. and **Hansen, P.-D.** (1998): Genotoxicity in fish eggs/embryos. In: *Microscale Aquatic Toxicology - Advances, Techniques and Practice* - Eds. P.G. Wells, K. Lee and C. Blaise, CRC Lewis Publishers, Florida, 491-505

Hansen, P.-D., Dizer, H., Hock, B., Marx, A., Sherry, J., McMaster, M. and Blaise, Ch. (1998): Vitellogenin - a Biomarker for Endocrine Disruptors. In: *Biosensors for Environmental Diagnostics* - Eds. Hock, Barceló, Cammann, Hansen, Turner, B.G. Teubner Verlagsgesellschaft, Stuttgart, Leipzig 1998, 253-261

Hansen, P.-D., Dizer, H., Hock, B., Marx, A., Sherry, J., McMaster, M. and Blaise, Ch. (1998): Vitellogenin - a biomarker for endocrine disruptors. *Trends in Analytical Chemistry (TRAC)*, 17, 7, 448-451

Baumard, P., Budzinski, H., Garrigues, P., Dizer, H. and **Hansen, P.-D.** (1999): Polycyclic Aromatic Hydrocarbons in Recent Sediments and Mussels (*Mytilus edulis*) from the Western Baltic Sea: Occurrence Bioavailability and Seasonal Variation. *Marine Environmental Research*, 47, 17-47

Bresler, V., Bissinger, V., Abelson, A., Dizer, H., Sturm, A., Kraetke, R., Fishelson, L., **Hansen, P.-D.** (1999): Marine molluscs and fish as biomarkers of pollution stress in littoral regions of the Red Sea, Mediterranean Sea and North Sea. *Helgol Mar Res* 53:219-243

Sturm, A. and **Hansen, P.-D.** (1999): Altered Cholinesterases and Monooxygenase levels in *Daphnia magna* and *Chironimus riparius* exposed to Environmental Pollutants. *Ecotoxicology and Environmental Safety* 42, 9-15

Sturm, A., da Silva de Assis, H. C. and **Hansen, P.-D.** (1999): Cholinesterases of marine teleost fish: enzymological characterisation and potential use in the monitoring of neurotoxic contamination. *Marine Environmental Research*, 47, 389-398

Sturm, A., **Hansen, P.-D.**, Wogram, J. and Liess, M (1999): Potential use of cholinesterase in monitoring low levels of organophosphates in small streams: natural variability in three-spined stickleback (*Gasterosteus aculeatus*) and relation to pollution. *Environmental Toxicology and Chemistry*, 18, 2, 194-200

Sturm, A., Hodson, P.V., Carey, J.H., **Hansen, P.-D.** (1999): Hepatic UDP-Glucuronosyl-transferase in Rainbow Trout (*Oncorhynchus mykiss*) and Preliminary Assessment of Response to Pulp Mill Cooking Liquor. *Bull. Environm. Contam. Toxicol.* 62, 608-615

Blaise, C., Gagné, F., Pellerin, J. and **Hansen, P.-D.** (1999): Measurement of vitellogenin-like protein in the hemolymph of *Mya arenaria* (Sagenay Fjord, Canada): A potential biomarker for endocrine disruption. *Environmental Toxicology and Water Quality*, Vol. 14, 455-465

Sherry, J., Gamble, A., Hodson, P., Salomon, K., Hock, B., Marx, A., and **Hansen, P.-D.** (1999): Vitellogenin Induction in Fish as an Indicator of Exposure to Environmental Estrogens. In: Ed. S.S. Rao, *Impact Assessment of Hazardous Aquatic Contaminants*, Lewis Publishers, Boca Raton, London, New York, Washington, 6, 125-160

- Bilitewski U., Brenner-Weiss, G., **Hansen, P.-D.**, Hock, B., Meulenberg, E., Müller, G., Obst, U., Sauerwein, H., Scheller, F.-W., Schmid, R., Schnabl, G., Spener, F. (2000): Bioresponse-linked instrumental analysis. *TRAC trends in analytical chemistry*, 19, 7, 428-433
- Hansen, P.-D.**, J. Koehler and D. Nowak, (2000): 1st and 2nd European Technical Meetings, Biosensors for Environmental Monitoring, Berlin 2000, 193 pp, ISSN 1617-1721
- Wittekindt, E., Matthes, C., Gaumert, T und **Hansen, P.-D.** (2000): Die gentoxische Gewässergüte-Klassifizierung der Elbe – entwickelt mit Hilfe des DNA-Aufwindungstests mit der Dreikantmuschel, *Hydrobiologie und Wasserbewirtschaftung*, 44, 3, 131-144
- Wittekindt, E., Saftic, S, Matthes, C., Fischer, B., **Hansen, P.-D.**, Schubert, J. (2001): In-situ-Untersuchungen zum gentoxischen Potenzial ausgewählter Oberflächengewässer mit dem DNA-Aufwindungstest an Fischzellen, Fischlarven, Krebsen und Muscheln. In: BMBF-Schriftenreihe Forschungsverbundvorhaben „Erprobung, Vergleich, Weiterentwicklung und Beurteilung von Gentoxizitätstests für Oberflächengewässer 1995-1999, 52-96
- Gagné, F., Blaise, C., Salazar, M., Salazar, S., **Hansen P.-D.** (2001): Evaluation of estrogenic effects of municipal effluents to the freshwater mussel *Elliptio complanata*, *Comparative Biochemistry and Physiology Part C* 128, 213-223
- Dethlefsen, V., von Westernhagen, H. Tüg, H., **Hansen,P.-D.**, Dizer, H. (2001): Influence of solar ultraviolet-B on pelagic fish embryos: osmolality, mortality and viable hatch, *Helgol. Mar. Res.*, 55, 45-55
- Marx, A., Sherry, J., **Hansen, P.-D.**, Hock, B. (2001): A New Monoclonal Antibody Against Vitellogenin From Rainbow Trout (*Oncorhynchus mykiss*), *Chemosphere*, 44, 393-399
- Castillo, M., Alonso, M.C., Rui, J., Reinke, M., Klöter, G., Dizer, H., Fischer, B., **Hansen, P.-D.**, Barceló, D. (2001): Identification of cytotoxic compounds in European Waste waters during a field experiment, *Analytica Chimica Acta*, 426, 265-277
- Dizer, H., Fischer,B., Harabawy, A.S.A., Hennion, M.-C., **Hansen, P.-D.** (2001): Toxicity of domoic acid in the marine mussel *Mytilus edulis*, *Aquatic Toxicology*, 55, 3-4, 149-156
- Dizer, H, Unruh, E., Bissinger, V. and **Hansen, P.-D.** (2001): Investigation of Genotoxicity and Immunotoxicity for Monitoring Marine Pollution in the Baltic Sea and Mediterranean Sea. In: Ph. Garrigues, H. Barth, C.H. Walker and J-F. Narbonne (Eds.) *Biomarkers in Marine Organisms A Practical Approach*, Elsevier Amsterdam-London-New York, 237-257
- Gu, M. B., B. C. Kim, J. Cho and **Hansen, P.-D.** (2001): The Continous Monitoring of Field Water Samples with a novel Multi-Channel Two-Stage Mini-Bioreactor System, *Environmental Monitoring and Assessment*, 70: 71-81
- Dizer, H., Wittekindt, E., Fischer,B., **Hansen, P.-D.** (2002): The cytotoxic and genotoxic potential of surface water and wastewater effluents as determined by bioluminescence, *umu*-assays and selected biomarkers, *Chemosphere* 46, 225-233

Dizer, H., Fischer, B., Sepulveda, I., Loffredo, E., Senesi, N., Santana F. and **Hansen, P.-D.** (2002): Estrogenic effect of leachates and soil extracts from lysimeters spiked with sewage sludge and reference endocrine disrupters, *Environmental Toxicology*, 17,2, 105-112

Hansen, P.-D. (2002): Unerwünschte Wirkungen. In: A. Grohmann (Hrsg.), 8. Auflage Karl Höll: Wasser, Nutzung im Kreislauf, Hygiene, Analyse und Bewertung, Walter de Gruyter, Berlin, New York, 550-563

Blaise, C., Gagné, F., Pellerin J., **Hansen, P.-D.**, Trottier, S. (2002): Molluscan shellfish biomarker study of the Saguenay Fjord (Quebec, Canada) with the soft-shell clam, *Mya arenaria*. *Environ. Toxicol.* 17,3, 170-186.

Blaise, C., Trottier, S., Gagné, F., Lallement, C., **Hansen, P.-D.** (2002): Immunocompetence of bivalve hemocytes by a miniaturized phagocytosis assay. *Environ. Toxicol.* 17,3, 160-169.

Alcock, S., Barcelo, D., **Hansen, P.-D.** (2003): Monitoring freshwater sediments, *Biosensors and Bioelectronics* 18, 1077-1083

Hansen, P.-D. (2003): Biomarkers. In: B.A. Markert, A.M. Breure and H.G. Zechmeister (Eds), *Bioindicators & Biomonitors, Principles, Concepts and Applications*, Elsevier, Amsterdam, Boston, London, Oxford, Paris, San Diego, San Francisco, Singapore, Sydney, Tokyo, 203-220

Blaise, C., Gagne, F., Salazar, M., Salazar, S., Trottier, S. and **Hansen, P.-D.** (2003): Experimentally-induced feminisation of freshwater mussels after long-term exposure to a municipal effluent. *Fresenius Environmental Bulletin*, 12, 8, 865-870

Skouras, A., Broeg, K., Dizer, H., von Westernhagen, H., **Hansen, P.-D.**, Steinhagen, D. (2003): The use of innate immune responses as biomarkers in a programme of integrated biological effects monitoring on flounder (*Platichthys flesus*) from the southern North Sea. *Helgol. Mar. Res.*, 57, 190-198

Schmidt, V., Zander, S., Körting, W., Broeg, K., von Westernhagen, H., Dizer, H., **Hansen, P.-D.**, Skouras, A. Steinhagen, D. (2003): Parasites of flounder (*Platichthys flesus* L.) from the German Bight, North Sea, and their potential use in biological effects monitoring (C. Pollution effects on the parasite community and a comparison to biomarker responses). *Helgol. Mar. Res.*, 57, 262-271

Garcia-Reyero, N., Requena, V, Petrovic, M., Fischer, B., **Hansen, P.-D.**, Diaz, A. Ventura, F., Barcelo, D. and Pina, B. (2004): Estrogenic Potential of Halogenated Derivates of Nonylphenol Ethoxylates and Carboxylates. *Environmental Toxicology and Chemistry*, 23, 3, 705-711

Huschek, G., **Hansen, P.-D.**, Maurer, H., Kregel, D., Kayser, A. (2004): Environmental Risk Assessment of medicinal products for human use in respect to the recommendations of the European Commission. *Environmental Toxicology*, Vol. 19, 3, 226-240

Grummt, T., **Hansen, P.-D.**, Rettberg, P., Waldmann, P., Zipperle, J. (2004): Unerwünschte Wirkungen im Gewässer, Gentoxizität als prioritärer Messparameter. *Chemie in unserer Zeit*, 38, 248-257

Kim, B.C., Gu, M. B. and **Hansen, P.-D.** (2005): Evaluation of Water-Borne Toxicity Using Bioluminescent Bacteria. In: E. Lichtfouse, J. Schwarzbauer and D. Robert (Eds.), Environmental Chemistry Part VII, Springer, Berlin, Heidelberg, 699-705

Luckas, B., Dahlmann, J., Erler, K., Gerdts, G., Wasmund, N., Hummert, C., **Hansen, P.-D.** (2005): An Overview on Key Phytoplankton Toxins and their recent occurrence in North Sea and Baltic. Environmental Toxicology, 20,1, 1-17

Hansen, P.-D. and Unruh, E. (2005):. TRIPLE LUX-B: Phagocytosis in Mussel Hemocytes, Proceedings of the 9th European Symposium on Life Sciences Research in Space /26th Annual International Gravitational Physiology Meeting, Cologne Germany, 26 June-1 July 2005 (ESA SP-585, August 2005)

Huschek, G. and **Hansen, P.-D.** (2005): Ecotoxicological classification of the Berlin river system using bioassays in respect to the European Water Framework Directive. Environmental Monitoring and Assessment, 121, 1-3, 15-31

Gagné, F., Blaise, C., Fournier, M., **Hansen, P.-D.** (2006): Effects of selected pharmaceutical products on phagocytic activity in *Elliptio complanata* mussels. Comp. Biochem. Physiol. C Toxicol Pharmacol, 143 (2), 179-186

Arab, N, Lemaire-Gony, S., Unruh, E., **Hansen, P.-D.**, Larsen, B.K., Andersen, O.K., Narbonne, N.J. (2006): Preliminary study of responses in mussels (*Mytilus edulis*) exposed to bisphenol A, diallyl phthalate and terebromodiphenyl ether. Aquat Toxicol. 78 Suppl 1, 86-92

Farré, M, E. Martinez, M.-D. Hernando, A. Fernández- Alba, J. Fritz, E. Unruh, O. Mihail, V. Sakkas, A. Morbey, T. Albanis, F. Brito, **Hansen, P.-D.**, D. Barceló, 2006. European ring exercise on water toxicity using different bioluminescence inhibition tests based on *Vibrio fischeri* , in support to the implementation of the water framework directive, Talanta, 69, 323-333

P.-D. Hansen, Blasco, J., De Valls, A., Poulsen, V., van den Heuvel-Greve, M. (2007): Biological analysis (Bioassays, Biomarkers, Biosensors) In: Sustainable management of sediment resources, Volume 2, Sediment quality and impact assessment of pollutants. Eds. Damia Barceló and Mira Petrovic, Elsevier Publishers Amsterdam, London, New York, 131-157

Kase, R., **Hansen, P.-D.**, Fischer, B., Manz, W., Heininger, P. and Reifferscheid, G. (2007): Integral Assessment of Estrogenic Potentials of Sediment-Associated Samples Part 1: The influence of salinity on the *in vitro* tests ELRA, E-Screen and YES. Env Sci Pollu Res., 15 (1), 75-83 / DOI: <http://dx.doi.org/10.1065/espr2007.06.429>

Hansen, P.-D. (2007): Risk assessment of emerging contaminants in aquatic systems. Trends. Anal. Chem. (TRAC), Vol. 26, No. 11, 1095-1099

Hansen, P.-D. (2007): Biosensors for Environmental and Human Health. In: Advanced Environmental Monitoring. Eds. Young J Kim and U. Platt, Springer Publisher, Heidelberg, New York, Section 4, Chapter 23, 297-311

Hansen, P.-D. (2008): Biosensors and Ecotoxicology, Eng. Life Sci., 8, 1, 1-7

Kase R., **Hansen, P.-D.**, Fischer, B., Reifferscheid, G., Manz, W. (2008):
Integral Assessment of Estrogenic Potentials of Sediment-Associated Samples
Part 2: Integral assessment of estrogen and anti-estrogen receptor binding potential of sediment associated chemicals under different salinity conditions with the salinity adapted enzyme linked receptor assay. Env. Sci. Pollut. Res., 16 (1), 54-64 / DOI 10.1007/s11356-008-0060-x

C.A. Schipper, J. Lahr, P.J. van den Brink, S.G. George, **P.-D. Hansen**, H.c. Silva de Assis, R. van der Oost, J. E. Thain, D. Livingstone, C. Mitchelmore, F.-J. van Schooten, F. Ariese, A.J. Murk, G.C.M. Grinwis, H. Klamer, B. J. Kater, J.F. Postma, B. van der Werf and A.D. Vethaak (2009) A retrospective analysis to explore the applicability of fish biomarkers and sediment bioassays along contaminated salinity transects. International Council for the Exploration of the Sea. ICES Journal of Marine Science Advance Access, 1-17

Barcelo, D. / **Hansen, P.-D.** (2009): Biosensors for the Environmental Monitoring of Aquatic Systems – Bioanalytical and Chemical Methods for Endocrine Disruptors. Series The Handbook of Environmental Chemistry. Vol. 5: Water Pollution, Part J, Springer Publishers, 278 pp

Grummt, T., Rettberg, P., Waldmann, P., Zipperle, J. and **Hansen, P.-D.** (2009):. Adverse Effects in Aquatic Ecosystems: Genotoxicity as a Priority Measurement. In: Barcelo, D. / **Hansen, P.-D. (Eds.)**: Biosensors for the Environmental Monitoring of Aquatic Systems – Bioanalytical and Chemical Methods for Endocrine Disruptors. Series The Handbook of Environmental Chemistry. Vol. 5: Water Pollution, Part J, Springer Publishers, 187-201

Hansen, P.-D., Wittekind, E., Sherry, J., Unruh, E., Dizer, H., Tüg, H., Rosenthal, H., Dethlefsen, V. and von Westernhagen, H. (2009): Genotoxicity in the Environment (Eco-Genotoxicity) In: Barcelo, D. / **Hansen, P.-D. (Eds.)**: Biosensors for the Environmental Monitoring of Aquatic Systems – Bioanalytical and Chemical Methods for Endocrine Disruptors. Series The Handbook of Environmental Chemistry. Vol. 5: Water Pollution, Part J, Springer Publishers, 203-226

Yaqin, K., **Hansen, P.-D.** (2010): The use of cholinergic biomarker, cholinesterase activity of blue mussel *Mytilus edulis* to detect the effects of organophosphorous pesticides. African Journal of Biochemistry Research Vol. 4 (12): 265-272

Yaqin, K., Lay, B. W., Riani, E., Masud, Z.A. and **Hansen, P.-D.** 2011. Hot Spot biomonitoring of marine pollution effects using cholinergic and immunity biomarkers of tropical green mussel (*Perna viridis*) of the Indonesian waters. Journal of Toxicology and Environmental Health Sciences Vol. 3(14), 356-365

Hansen, P.-D., Gabriel, B., Liebrez, H., Herig, S., vom Lehn, R. 2013. Eva.S: Evaluation Strategies and Data Processing of Indicator Values. Universitätsverlag der TU Berlin, ISBN 978-3-7983-2587-6 (Print), ISBN 978-3-7983-2588-3 (Online), 17 pp

Unruh, E., Brungs, S., Langer, S., Bornemann, G., Frett, T., **Hansen, P.-D.** 2016. Comprehensive Study of the Influence of Altered Gravity on the Oxidative Burst of Mussel (*Mytilus edulis*) Hemocytes, Microgravity Sci. Technol. Vol. 28, 3, 275-285 (DOI 10.1007/s12217-015-9438-9)

Barceló, D., I. Palchetti, **P.-D. Hansen**, 2016. Past, Present and Future challenges of Biosensors and Bioanalytical tools in Analytical Chemistry. Trends in Analytical Chemistry (TRAC), ISSN 0165-9936, Special Issue, Volume 79, 379 pp.

Hansen, P.-D., 2017. TRIPLE LUX-B - Immunologische und zelluläre Reaktionen unter dem Einfluss von Mikrogravitation und Weltraumstrahlung - Entwicklung eines Biosensors mit Phagozyten. *Phagozytose - Testsystem zur immunologischen Risikobewertung bei Langzeitmissionen*. In: Deutschland forscht auf der ISS - eine Bilanz (Teil1), Raumfahrt Concret (RC)-Angewandte Raumfahrt, 96, 1/2017, 19

Hansen, P.-D. and Unruh, E. 2017. Whole-cell biosensors and bioassays. In: past, present and future challenges of biosensors and bioanalytical tools in analytical chemistry edited by Palchetti, Ilaria, Hansen, Peter-Diedrich, Damia Barceló, Comprehensive Analytical Chemistry (CAC), Elsevier Series, Amsterdam, Oxford, Cambridge, ISBN: 978-0-444-63946-2, ISSN: 0166-526X, Volume 77, 2, 35-53

Hansen, P.-D. 2018. Fish. In: Bioassays - Advanced Methods and Applications. Donat-P. Häder and Gilmar S. Erzinger (Eds.). Elsevier Publishers, Amsterdam, Oxford, Cambridge, ISBN 978-0-12-811861-0, 15, 309-329
DOI: <http://dx.doi.org/10-1016/B978-0-12-811861-0.00015-2>

Hansen, P.-D. 2018. Applications for the real environment. In: Bioassays - Advanced Methods and Applications. Donat-P. Häder and Gilmar S. Erzinger (Eds.). Elsevier Publishers, Amsterdam, Oxford, Cambridge, ISBN 978-0-12-811861-0, 20, 403-418
DOI: <http://dx.doi.org/10-1016/B978-0-12-811861-0.00020-6>

Hansen, P.-D. and Unruh, E. 2018. Cryo-conservation: Phagozytosis Biosensor with cryo-conserved cells in an extreme environment at the International Space Station (ISS) under microgravity and radiation, Journal of Comparative Physiology B, in preparation

Books and book chapters published 2005-2018

Hansen, P.-D., Blasco, J., De Valls, A., Poulsen, V., van den Heuvel-Greve, M. 2007. Biological analysis (Bioassays, Biomarkers, Biosensors) In: Sustainable management of sediment resources, Volume 2, Sediment quality and impact assessment of pollutants. Eds. Damia Barceló and Mira Petrovic, Elsevier Publishers Amsterdam, London, New York, 131-157

Barcelo, Damia / **Hansen, Peter-Diedrich** (Eds.) 2009: Biosensors for the Environmental Monitoring of Aquatic Systems – Bioanalytical and Chemical Methods for Endocrine Disruptors. Series The Handbook of Environmental Chemistry. Vol. 5: Water Pollution, Part J, Springer Publishers, 278 pp

Hansen, P.-D. 2010. Unerwünschte Wirkungen. In: R. Nießner (Hrsg.), 9. Auflage Karl Höll: Wasser, Nutzung im Kreislauf, Hygiene, Analyse und Bewertung, Walter de Gruyter, Berlin, New York, 8, 602-615

Hansen, P.-D., Gabriel, B., Liebrez, H., Herig, S., vom Lehn, R. 2013. Eva.S: Evaluation Strategies and Data Processing of Indicator Values. Universitätsverlag der TU Berlin, ISBN 978-3-7983-2587-6 (Print), ISBN 978-3-7983-2588-3 (Online), 17 pp

Ilaria Palchetti, **Peter-Diedrich Hansen**, Damia Barceó (Eds.) 2017. Past, present and future challenges of biosensors and bioanalytical tools in analytical chemistry, Comprehensive Analytical Chemistry (CAC), Elsevier Series, Amsterdam, Oxford, Cambridge, ISBN: 978-0-444-63946-2, ISSN: 0166-526X, Volume 77, 439 pp

Hansen, P.-D. and Unruh, E. 2017. Whole-cell biosensors and bioassays. In: past, present and future challenges of biosensors and bioanalytical tools in analytical chemistry edited by Palchetti, Ilaria, Hansen, Peter-Diedrich, Damia Barceló, Comprehensive Analytical Chemistry (CAC), Elsevier Series, Amsterdam, Oxford, Cambridge, ISBN: 978-0-444-63946-2, ISSN: 0166-526X, Volume 77, 2, 35-53

Hansen, P.-D. 2018. Fish. In: Bioassays - Advanced Methods and Applications. Donat-P. Häder and Gilmar S. Erzinger (Eds.). Elsevier Publishers, Amsterdam, Oxford, Cambridge, ISBN 978-0-12-811861-0, 15, 309-329
DOI: <http://dx.doi.org/10-1016/B978-0-12-811861-0.00015-2>

Hansen, P.-D. 2018. Applications for the real environment. In: Bioassays - Advanced Methods and Applications. Donat-P. Häder and Gilmar S. Erzinger (Eds.). Elsevier Publishers, Amsterdam, Oxford, Cambridge, ISBN 978-0-12-811861-0, 20, 403-418
DOI: <http://dx.doi.org/10-1016/B978-0-12-811861-0.00020-6>