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Biography

Grant is an aquatic ecologist and ecotoxicologist. His research examines the response of groundwater ecosystems, invertebrate and microbial communities to environmental change, and develops tools for assessing change in ecosystem health and condition. Hose and his team undertake field surveys and laboratory manipulative experiments, to identify correlative and causal links to community change. His team has expertise in groundwater invertebrate taxonomy and using environmental DNA (eDNA) to characterise the composition and function of groundwater ecosystems, and through this work has established an international reputation in groundwater ecology research. His current research focuses on the ecology of groundwater ecosystems and assessment of ecosystem health, ecological risk assessments and ecotoxicology for groundwater biota and the roles of stygofauna in providing ecosystem services.

Research outputs

The toxicity and uptake of as, Cr and Zn in a stygobitic syncarid (Syncarida: Bathynellidae)

Hose, G. C., Symington, K., Lategan, M. J. & Siegele, R., Dec 2019, In : *Water (Switzerland)*. 11, 12, p. 1-13 13 p., 2508.

Ecotoxicological effects of anthropogenic stressors in subterranean organisms: a review

Castañó-Sánchez, A., Hose, G. C. & Reboleira, A. S. P. S., 23 Nov 2019, In : *Chemosphere*. 244, p. 1-15 15 p., 125422.

Surviving drought: a framework for understanding animal responses to small rain events in the arid zone

Maute, K., Hose, G. C., Story, P., Bull, C. M. & French, K., Nov 2019, In : *Ecology*. 100, 11, p. 1-9 9 p., e02884.

Highly diverse fungal communities in carbon-rich aquifers of two contrasting lakes in Northeast Germany

Perkins, A. K., Ganzert, L., Rojas-Jimenez, K., Fonvielle, J., Hose, G. C. & Grossart, H. P., Oct 2019, In : *Fungal Ecology*. 41, p. 116-125 10 p.

Recommendations for ecotoxicity testing with stygobiotic species in the framework of groundwater environmental risk assessment

Di Lorenzo, T., Di Marzio, W. D., Fiasca, B., Galassi, D. M. P., Korbel, K., Iepure, S., Pereira, J. L., Reboleira, A. S. P. S., Schmidt, S. I. & Hose, G. C., 1 Sep 2019, In : *Science of the Total Environment*. 681, p. 292-304 13 p.

3D conservation planning: including aquifer protection in freshwater plans refines priorities without much additional effort

Linke, S., Turak, E., Asmyhr, M. G. & Hose, G., Jul 2019, In : *Aquatic Conservation: Marine and Freshwater Ecosystems*. 29, 7, p. 1063-1072 10 p.

Microbial communities are sensitive indicators for freshwater sediment copper contamination

Sutcliffe, B., Hose, G. C., Harford, A. J., Midgley, D. J., Greenfield, P., Paulsen, I. T. & Chariton, A. A., Apr 2019, In : *Environmental Pollution*. 247, p. 1028-1038 11 p.

Sediment size influences habitat selection and use by groundwater macrofauna and meiofauna

Korbel, K. L., Stephenson, S. & Hose, G. C., Apr 2019, In : *Aquatic Sciences*. 81, 2, p. 1-10 10 p., 39.

The impact of urbanisation on community structure, gene abundance and transcription rates of microbes in upland swamps of Eastern Australia

Christiansen, N. A., Fryirs, K. A., Green, T. J. & Hose, G. C., 4 Mar 2019, In : *PLoS ONE*. 14, 3, p. 1-20 20 p., e0213275.

Groundwater ecosystems and their services: current status and potential risks

Griebler, C., Avramov, M. & Hose, G., 1 Feb 2019, *Atlas of ecosystem services: drivers, risks, and societal responses*. Schröter, M., Bonn, A., Klotz, S., Seppelt, R. & Baessler, C. (eds.). Cham, Switzerland: Springer, p. 197-203 7 p.

Urban impacts across realms: making the case for inter-realm monitoring and management

Bugnot, A. B., Hose, G. C., Walsh, C. J., Floerl, O., French, K., Dafforn, K. A., Hanford, J., Lowe, E. C. & Hahs, A. K., 15 Jan 2019, In : Science of the Total Environment. 648, p. 711-719 9 p.

Water sources of upland swamps in Eastern Australia: implications for system integrity with aquifer interference and a changing climate

Cowley, K. L., Fryirs, K. A., Chisari, R. & Hose, G. C., 9 Jan 2019, In : Water (Switzerland). 11, 1, p. 1-22 22 p., 102.

The potential of *Medicago sativa* for microbial-enhanced phytoremediation of diesel fuel contaminated sites

Eze, M. O., George, S. C. & Hose, G., 2019.

Understanding the spatial distribution and physical attributes of upland swamps in the Sydney Basin as a template for their conservation and management

Fryirs, K. A., Farebrother, W. & Hose, G. C., 2019, In : Australian Geographer. 50, 1, p. 91-110 20 p.

Microfluidic qPCR enables high throughput quantification of microbial functional genes but requires strict curation of primers

Crane, S. L., van Dorst, J., Hose, G. C., King, C. K. & Ferrari, B. C., 26 Nov 2018, In : Frontiers in Environmental Science. 6, NOV, p. 1-14 14 p., 145.

Diverse fungal lineages in subtropical ponds are altered by sediment-bound copper

Sutcliffe, B., Chariton, A. A., Harford, A. J., Hose, G. C., Greenfield, P., Midgley, D. J. & Paulsen, I. T., Aug 2018, In : Fungal Ecology. 34, p. 28-42 15 p.

The hydrological function of upland swamps in eastern Australia: the role of geomorphic condition in regulating water storage and discharge

Cowley, K. L., Fryirs, K. A. & Hose, G. C., 1 Jun 2018, In : Geomorphology. 310, p. 29-44 16 p.

Effects of red earthworms (*Eisenia fetida*) on leachability of lead minerals in soil

Kavehei, A., Hose, G. C. & Gore, D. B., Jun 2018, In : Environmental Pollution. 237, p. 851-857 7 p.

Insights from the genomes of microbes thriving in uranium-enriched sediments

Sutcliffe, B., Chariton, A. A., Harford, A. J., Hose, G. C., Stephenson, S., Greenfield, P., Midgley, D. J. & Paulsen, I. T., May 2018, In : Microbial Ecology. 75, 4, p. 970-984 15 p.

The influence of vegetation and soil properties on springtail communities in a diesel-contaminated soil

Errington, I., King, C. K., Houlahan, S., George, S. C., Michie, A. & Hose, G. C., 1 Apr 2018, In : Science of the Total Environment. 619-620, p. 1098-1104 7 p.

Ecosystem effects and the management of petroleum-contaminated soils on subantarctic islands

Errington, I., King, C. K., Wilkins, D., Spedding, T. & Hose, G. C., 1 Mar 2018, In : Chemosphere. 194, p. 200-210 11 p.

Groundwater amphipods alter aquifer sediment structure

Stumpp, C. & Hose, G. C., 15 Sep 2017, In : Hydrological Processes. 31, 19, p. 3452-3454 3 p.

Effects of uranium concentration on microbial community structure and functional potential

Sutcliffe, B., Chariton, A. A., Harford, A. J., Hose, G. C., Greenfield, P., Elbourne, L. D. H., Oytam, Y., Stephenson, S., Midgley, D. J. & Paulsen, I. T., 1 Aug 2017, In : Environmental microbiology. 19, 8, p. 3323-3341 19 p.

Different depths, different fauna: habitat influences on the distribution of groundwater invertebrates

Hose, G. C., Fryirs, K. A., Bailey, J., Ashby, N., White, T. & Stumpp, C., Aug 2017, In : Hydrobiologia. 797, 1, p. 145-157 13 p.

Blueprint for living cities: policy to practice

Davies, P., Corkery, L., Nipperess, D., Barnett, G., Bishop, M., Hochuli, D., Hose, G., Joei, C., Lin, B., Keane, A., Osmond, P., Pelleri, N., Staas, L., Threlfall, C., van den Berg, F. & Wilkinson, S., May 2017, National Green Infrastructure Network. 67 p.

The weighted groundwater health index: Improving the monitoring and management of groundwater resources

Korbel, K. L. & Hose, G. C., 1 Apr 2017, In : Ecological Indicators. 75, p. 164-181 18 p.

Short and long-term impacts of ultra-low-volume pesticide and biopesticide applications for locust control on non-target arid zone arthropods

Maute, K., French, K., Story, P., Bull, C. M. & Hose, G. C., 1 Mar 2017, In : Agriculture, Ecosystems and Environment. 240, p. 233-243 11 p.

Wells provide a distorted view of life in the aquifer: implications for sampling, monitoring and assessment of groundwater ecosystems

Korbel, K., Chariton, A., Stephenson, S., Greenfield, P. & Hose, G. C., 19 Jan 2017, In : Scientific Reports. 7, p. 1-13 13 p., 40702.

Applications of fipronil (Adonis 3UL) and Metarhizium acridum for use against locusts have minimal effect on litter decomposition and microbial functional diversity in Australian arid grassland

Maute, K., Story, P., Hose, G. C., Bull, C. M. & French, K., 2017, In : Soil Research. 55, 2, p. 172-181 10 p.

Urban ecology: theory, policy and practice in New South Wales, Australia

Davies, P., Corkery, L., Nipperess, D. A., van den Berg, F., Joei, C., Bishop, M., Staas, L., Hose, G., Pelleri, N., Osmond, P., Keane, A., Hochuli, D., Barnett, G., Lin, B., Threlfall, C. & Wilkinson, S., 2017, National Green Infrastructure Network. 378 p.

Identifying key sedimentary indicators of geomorphic structure and function of upland swamps in the Blue Mountains for use in condition assessment and monitoring

Cowley, K. L., Fryirs, K. A. & Hose, G. C., 1 Dec 2016, In : Catena. 147, p. 564-577 14 p.

Comparative effects of pesticides, fenitrothion and fipronil, applied as ultra-low volume formulations for locust control, on non-target invertebrate assemblages in Mitchell grass plains of south-west Queensland, Australia

Walker, P. W., Story, P. G. & Hose, G. C., 1 Nov 2016, In : Crop Protection. 89, p. 38-46 9 p.

Giardiasis in NSW: Identification of Giardia duodenalis assemblages contributing to human and cattle cases, and an epidemiological assessment of sporadic human giardiasis

Asher, A. J., Hose, G. & Power, M. L., 1 Oct 2016, In : Infection, Genetics and Evolution. 44, p. 157-161 5 p.

The unicellular fungal tool RhoTox for risk assessments in groundwater systems

Lategan, M. J., Klare, W., Kidd, S., Hose, G. C. & Nevalainen, H., 1 Oct 2016, In : Ecotoxicology and Environmental Safety. 132, p. 18-25 8 p.

The toxicity of arsenic(III), chromium(VI) and zinc to groundwater copepods

Hose, G. C., Symington, K., Lott, M. J. & Lategan, M. J., 1 Sep 2016, In : Environmental Science and Pollution Research. 23, 18, p. 18704-18713 10 p.

A framework and toolbox for monitoring and assessing the swamp condition and ecosystem health

Hose, G. & Fryirs, K., May 2016, In : Ecological Management and Restoration.

The spatial distribution and physical characteristics of Temperate Highland Peat Swamps on Sandstone (THPSS)

Fryirs, K. & Hose, G., 20 Apr 2016, In : Ecological Management and Restoration.

Effects of two locust control methods on wood-eating termites in arid Australia

Maute, K., French, K., Story, P., Bull, C. M. & Hose, G. C., 1 Feb 2016, In : Journal of Insect Conservation. 20, 1, p. 107-118 12 p.

Intrinsic and extrinsic controls on the geomorphic condition of upland swamps in Eastern NSW

Fryirs, K. A., Cowley, K. & Hose, G. C., 1 Feb 2016, In : Catena. 137, p. 100-112 13 p.

A toolbox of sedimentary indicators for assessing the geomorphic structure, function and condition of endangered Temperate Highland Peat Swamps on Sandstone (THPSS), Blue Mountains, NSW

Cowley, K. L., Fryirs, K. & Hose, G. C., 2016, *Proceedings of the 8th Australian Stream Management Conference*. Vietz, G. J., Flatley, A. J. & Rutherford, I. D. (eds.). Melbourne, Victoria: River Basin Management Society, p. 231-239 9 p.

Emergent technologies and analytical approaches for understanding the effects of multiple stressors in aquatic environments

Chariton, A. A., Sun, M., Gibson, J., Webb, J. A., Leung, K. M. Y., Hickey, C. W. & Hose, G. C., 2016, In : Marine and Freshwater Research. 67, 4, p. 414-428 15 p.

Influence of rock-pool characteristics on the distribution and abundance of inter-tidal fishes

White, G. E., Hose, G. C. & Brown, C., 1 Dec 2015, In : Marine Ecology. 36, 4, p. 1332-1344 13 p.

Parasitic nematode communities of the red kangaroo, *Macropus rufus*: richness and structuring in captive systems

Lott, M. J., Hose, G. C. & Power, M. L., 28 Aug 2015, In : Parasitology Research. 114, 8, p. 2925-2932 8 p.

Prevalence and molecular identification of nematode and dipteran parasites in an Australian alpine grasshopper (*Kosciuscola tristis*)

Umbers, K. D. L., Byatt, L. J., Hill, N. J., Bartolini, R. J., Hose, G. C., Herberstein, M. E. & Power, M. L., 28 Apr 2015, In : PLoS ONE. 10, 4, p. 1-11 11 p., e0121685.

Genetics and infection dynamics of *Paratrichosoma* sp in farmed saltwater crocodiles (*Crocodylus porosus*)

Lott, M. J., Hose, G. C., Isberg, S. R. & Power, M. L., Feb 2015, In : Parasitology Research. 114, 2, p. 727-735 9 p.

Current insecticide treatments used in locust control have less of a short-term impact on Australian arid-zone reptile communities than does temporal variation

Maute, K., French, K., Bull, C. M., Story, P. & Hose, G., 2015, In : Wildlife Research. 42, 1, p. 50-59 10 p.

Direct and indirect effects of copper-contaminated sediments on the functions of model freshwater ecosystems

Gardham, S., Chariton, A. A. & Hose, G. C., 2015, In : Ecotoxicology. 24, 1, p. 61-70 10 p.

Down under down under: Austral groundwater life

Hose, G. C., Asmyhr, M. G., Cooper, S. J. B. & Humphreys, W. F., 2015, *Austral Ark: The State of Wildlife in Australia and New Zealand*. Stow, A., Maclean, N. & Holwell, G. I. (eds.). Cambridge: Cambridge University Press, p. 512-536 25 p.

Habitat, water quality, seasonality, or site? Identifying environmental correlates of the distribution of groundwater biota

Korbel, K. L. & Hose, G. C., 2015, In : Freshwater Science. 34, 1, p. 329-342 14 p.

Systematic conservation planning for groundwater ecosystems using phylogenetic diversity

Asmyhr, M. G., Linke, S., Hose, G. & Nipperess, D. A., 16 Dec 2014, In : PLoS ONE. 9, 12, p. 1-15 15 p., e115132.

Development of a groundwater fungal strain as a tool for toxicity assessment

Lategan, M. J. & Hose, G. C., 1 Dec 2014, In : Environmental Toxicology and Chemistry. 33, 12, p. 2826-2834 9 p.

Invertebrate community responses to a particulate- and dissolved-copper exposure in model freshwater ecosystems
Gardham, S., Chariton, A. A. & Hose, G. C., 1 Dec 2014, In : Environmental Toxicology and Chemistry. 33, 12, p. 2724-2732 9 p.

Groundwater depth and topography correlate with vegetation structure of an upland peat swamp, Budderoo Plateau, NSW, Australia

Hose, G. C., Bailey, J., Stumpp, C. & Fryirs, K., 1 Oct 2014, In : Ecohydrology. 7, 5, p. 1392-1402 11 p.

The geomorphic character and hydrological function of an upland swamp, Budderoo Plateau, Southern Highlands, NSW, Australia

Fryirs, K., Gough, J. & Hose, G. C., 4 Jul 2014, In : Physical Geography. 35, 4, p. 313-334 22 p.

River-aquifer interactions and their relationship to stygofauna assemblages: A case study of the Gwydir River alluvial aquifer (New South Wales, Australia)

Menció, A., Korbek, K. L. & Hose, G. C., 1 May 2014, In : Science of the Total Environment. 479-480, 1, p. 292-305 14 p.

Fine-scale genetics of subterranean syncarids

Asmyhr, M. G., Hose, G., Graham, P. & Stow, A. J., Jan 2014, In : Freshwater Biology. 59, 1, p. 1-11 11 p.

Developing a model of upland swamp structure, function and evolution for biodiversity conservation and rehabilitation: the case of threatened Temperate Highland Peat Swamps on Sandstone (THPSS)

Fryirs, K., Freidman, B., Williams, R., Jacobsen, G. & Hose, G., 2014, *Proceedings of the 7th Australian Stream Management Conference*. Vietz, G., Rutherford, I. & Hughes, R. (eds.). Melbourne: The University of Melbourne, p. 262-267 6 p.

DNA Metabarcoding Meets Experimental Ecotoxicology: advancing Knowledge on the Ecological Effects of Copper in Freshwater Ecosystems

Gardham, S., Hose, G. C., Stephenson, S. & Chariton, A. A., 2014, In : Advances in Ecological Research. 51, p. 79-104 26 p.

Long-term copper partitioning of metal-spiked sediments used in outdoor mesocosms

Gardham, S., Hose, G. C., Simpson, S. L., Jarolimek, C. & Chariton, A. A., 2014, In : Environmental Science and Pollution Research. 21, 11, p. 7130-7139 10 p.

Petroleum biodegradation in subantarctic Macquarie Island soils

Houlahan, S. B., Hose, G., Errington, I., King, C. K. & George, S. C., 2014, *Life, environments and resources: AOGC2014: 18th Australian Organic Geochemistry Conference*. Adelaide: The University of Adelaide, p. 81-82 2 p.

Sublethal toxicity of untreated and treated stormwater Zn concentrations on the foraging behaviour of *Paratya australiensis* (Decapoda: Atyidae)

Oulton, L. J., Taylor, M. P., Hose, G. C. & Brown, C., 2014, In : Ecotoxicology. 23, 6, p. 1022-1029 8 p.

The effects of aged diesel fuel on subantarctic invertebrate and microbial communities

Errington, I., King, C. K., George, S. C., Houlahan, S. & Hose, G., 2014.

Towards the molecular characterisation of parasitic nematode assemblages: An evaluation of terminal-restriction fragment length polymorphism (T-RFLP) analysis

Lott, M. J., Hose, G. C. & Power, M. L., 2014, In : Experimental Parasitology. 144, p. 76-83 8 p.

Comparative growth and development of spiders reared on live and dead prey

Peng, Y., Zhang, F., Gui, S., Qiao, H. & Hose, G. C., 27 Dec 2013, In : PLoS ONE. 8, 12, p. 1-5 5 p., e83663.

The Impact of water table drawdown and drying on subterranean aquatic fauna in in-vitro experiments

Stumpp, C. & Hose, G. C., 20 Nov 2013, In : PLoS ONE. 8, 11, p. 1-10 10 p., e78502.

Changes in Prokaryote and Eukaryote Assemblages Along a Gradient of Hydrocarbon Contamination in Groundwater

Stephenson, S., Chariton, A. A., Holley, M. P., O'Sullivan, M., Gillings, M. R. & Hose, G. C., Aug 2013, In : Geomicrobiology Journal. 30, 7, p. 623-634 12 p.

Assessing the chronic toxicity of atrazine, permethrin, and chlorothalonil to the cladoceran *Ceriodaphnia cf. dubia* in laboratory and natural river water

Phyu, Y. L., Palmer, C. G., Warne, M. S. J., Dowse, R., Mueller, S., Chapman, J., Hose, G. C. & Lim, R. P., Apr 2013, In : Archives of Environmental Contamination and Toxicology. 64, 3, p. 419-426 8 p.

Groundwater ecosystems vary with land use across a mixed agricultural landscape

Korbel, K. L., Hancock, P. J., Serov, P., Lim, R. P. & Hose, G. C., Mar 2013, In : Journal of Environmental Quality. 42, 2, p. 380-390 11 p.

Effect of catchment urbanization on ant diversity in remnant riparian corridors

Ives, C. D., Taylor, M. P., Nipperess, D. A. & Hose, G. C., Feb 2013, In : Landscape and Urban Planning. 110, p. 155-163 9 p.

The ecological effects of a herbicide-insecticide mixture on an experimental freshwater ecosystem

Choung, C. B., Hyne, R. V., Stevens, M. M. & Hose, G. C., Jan 2013, In : Environmental Pollution. 172, p. 264-274 11 p.

An inter-catchment comparison of groundwater biota in the cotton-growing region of north-western New South Wales

Korbel, K. L., Lim, R. P. & Hose, G. C., 2013, In : Crop and Pasture Science. 64, 11-12, p. 1195-1208 14 p.

Hydrochemical processes in the alluvial aquifer of the Gwydir River (northern New South Wales, Australia)

Mencio, A., Mas-Pla, J., Korbel, K. & Hose, G. C., 2013, In : Procedia earth and Planetary Science. 7, p. 570-573 4 p.

Proteomic analysis of Sydney Rock oysters (*Saccostrea glomerata*) exposed to metal contamination in the field

Thompson, E. L., Taylor, D. A., Nair, S. V., Birch, G., Hose, G. C. & Raftos, D. A., Nov 2012, In : Environmental Pollution. 170, p. 102-112 11 p.

Nematode community structure in the brush-tailed rock-wallaby, *Petrogale penicillata*: Implications of captive breeding and the translocation of wildlife

Lott, M. J., Eldridge, M. D. B., Hose, G. C. & Power, M. L., Oct 2012, In : Experimental Parasitology. 132, 2, p. 185-192 8 p.

Fungal Diversity of Shallow Aquifers in Southeastern Australia

Lategan, M. J., Torpy, F. R., Newby, S., Stephenson, S. & Hose, G. C., May 2012, In : Geomicrobiology Journal. 29, 4, p. 352-361 10 p.

The first set of microsatellite markers developed for the ancient Parabathynellidae (Syncarida, Malacostraca) and their utility for other groundwater fauna

Asmyhr, M. G., Stow, A. J. & Hose, G., 2012, In : Conservation Genetics Resources. 4, 3, p. 587-589 3 p.

Environmental and landscape factors influencing ant and plant diversity in suburban riparian corridors

Ives, C. D., Hose, G. C., Nipperess, D. A. & Taylor, M. P., 30 Dec 2011, In : Landscape and Urban Planning. 103, 3-4, p. 372-382 11 p.

A comparison of mixture toxicity assessment: Examining the chronic toxicity of atrazine, permethrin and chlorothalonil in mixtures to *Ceriodaphnia cf. Dubia*

Phyu, Y. L., Palmer, C. G., Warne, M. S. J., Hose, G. C., Chapman, J. C. & Lim, R. P., Nov 2011, In : Chemosphere. 85, 10, p. 1568-1573 6 p.

Developmental toxicity of two common corn pesticides to the endangered southern bell frog (*Litoria raniformis*)

Choung, C. B., Hyne, R. V., Mann, R. M., Stevens, M. M. & Hose, G. C., Oct 2011, In : Environmental Pollution. 159, 10, p. 2648-2655 8 p.

Incorporating traits in aquatic biomonitoring to enhance causal diagnosis and prediction

Culp, J. M., Armanini, D. G., Dunbar, M. J., Orlofske, J. M., LeRoy Poff, N., Pollard, A. I., Yates, A. G. & Hose, G. C., Apr 2011, In : Integrated Environmental Assessment and Management. 7, 2, p. 187-197 11 p.

Toxicity of the insecticide terbufos, its oxidation metabolites, and the herbicide atrazine in binary mixtures to *Ceriodaphnia dubia*

Choung, C. B., Hyne, R. V., Stevens, M. M. & Hose, G. C., Apr 2011, In : Archives of Environmental Contamination and Toxicology. 60, 3, p. 417-425 9 p.

The influence of riparian corridor width on ant and plant assemblages in northern Sydney, Australia

Ives, C. D., Hose, G. C., Nipperess, D. A. & Taylor, M. P., Feb 2011, In : Urban Ecosystems. 14, 1, p. 1-16 16 p.

A tiered framework for assessing groundwater ecosystem health

Korbel, K. L. & Hose, G. C., 2011, In : Hydrobiologia. 661, 1, p. 329-349 21 p.

The geomorphic character and hydrological function of an upland swamp, Budderoo Plateau, Southern Highlands, NSW, Australia

Fryirs, K., Gough, J. & Hose, G., 2011, p. 93. 1 p.

A low concentration of atrazine does not influence the acute toxicity of the insecticide terbufos or its breakdown products to *Chironomus tepperi*

Choung, C. B., Hyne, R. V., Stevens, M. M. & Hose, G. C., Nov 2010, In : Ecotoxicology. 19, 8, p. 1536-1544 9 p.

Dimethoate, fenvalerate and their mixture affects *Hylyphantes graminicola* (Araneae: Linyphiidae) adults and their unexposed offspring

Peng, Y., Shao, X. L., Hose, G. C., Liu, F. X. & Chen, J., Nov 2010, In : Agricultural and Forest Entomology. 12, 4, p. 343-351 9 p.

River water and sediment reduce the toxicity of deltamethrin to *paratya Australiensis*

Thomas, C. R., Warne, M. S. J., Hose, G. C. & Lim, R. P., Jan 2010, In : Australasian Journal of Ecotoxicology. 16, 1, p. 9-16 8 p.

Is cotton-strip tensile strength a surrogate for microbial activity in groundwater?

Lategan, M. J., Korbel, K. & Hose, G. C., 2010, In : Marine and Freshwater Research. 61, 3, p. 351-356 6 p.

What do qualitative rapid assessment collections of macroinvertebrates represent? A comparison with extensive quantitative sampling

Gillies, C. L., Hose, G. C. & Turak, E., 2009, In : Environmental Monitoring and Assessment. 149, 1-4, p. 99-112 14 p.

Effects of river water and salinity on the toxicity of deltamethrin to freshwater shrimp, cladoceran, and fish

Thomas, C. R., Hose, G. C., Warne, M. S. J. & Lim, R. P., Nov 2008, In : Archives of Environmental Contamination and Toxicology. 55, 4, p. 610-618 9 p.

Comparison of the fate and toxicity of chlorpyrifos-Laboratory versus a coastal mesocosm system

Pablo, F., Krassoi, F. R., Jones, P. R. F., Colville, A. E., Hose, G. C. & Lim, R. P., Sep 2008, In : Ecotoxicology and Environmental Safety. 71, 1, p. 219-229 11 p.

Bioavailable DDT residues in sediments: Laboratory assessment of ageing effects using semi-permeable membrane devices

Menchai, P., Van Zwieten, L., Kimber, S., Ahmad, N., Rao, P. S. C. & Hose, G., May 2008, In : Environmental Pollution. 153, 1, p. 110-118 9 p.

Cave invertebrate assemblages differ between native and exotic leaf litter

Hills, N., Hose, G. C., Cantlay, A. J. & Murray, B. R., May 2008, In : Austral Ecology. 33, 3, p. 271-277 7 p.

Effects of chlorpyrifos on macroinvertebrate communities in coastal stream mesocosms

Colville, A., Jones, P., Pablo, F., Krassoi, F., Hose, G. & Lim, R., Apr 2008, In : Ecotoxicology. 17, 3, p. 173-180 8 p.

Short-term colonisation by macroinvertebrates of cobbles in main channel and inundated stream bank habitats

Hose, G. C., Walter, T. & Brooks, A. J., Nov 2007, In : Hydrobiologia. 592, 1, p. 513-522 10 p.

Introduction history and invasion success in exotic vines introduced to Australia

Harris, C. J., Murray, B. R., Hose, G. C. & Hamilton, M. A., Jul 2007, In : Diversity and Distributions. 13, 4, p. 467-475 9 p.

Response to Humphreys' (2007) comments on Hose GC (2005) Assessing the need for groundwater quality guidelines for pesticides using the species sensitivity distribution approach [2]

Hose, G. C., Jan 2007, In : Human and Ecological Risk Assessment. 13, 1, p. 241-246 6 p.

Relating pine-litter intrusion to plant-community structure in native eucalypt woodland adjacent to *Pinus radiata* (Pinaceae) plantations

Baker, A. C., Murray, B. R. & Hose, G. C., 2007, In : Australian Journal of Botany. 55, 5, p. 521-532 12 p.

A meta-analysis comparing the toxicity of sediments in the laboratory and in situ

Hose, G. C., Murray, B. R., Park, M. L., Kelaher, B. P. & Figueira, W. F., Apr 2006, In : Environmental Toxicology and Chemistry. 25, 4, p. 1148-1152 5 p.

Spider webs as indicators of heavy metal pollution in air

Xiao-li, S., Yu, P., Hose, G. C., Jian, C. & Feng-xiang, L., Feb 2006, In : Bulletin of Environmental Contamination and Toxicology. 76, 2, p. 271-277 7 p.

A functional methodology for determining the groundwater regime needed to maintain the health of groundwater-dependent vegetation

Eamus, D., Froend, R., Loomes, R., Hose, G. & Murray, B., 2006, In : Australian Journal of Botany. 54, 2, p. 97-114 18 p.

Valuation of groundwater-dependent ecosystems: A functional methodology incorporating ecosystem services

Murray, B. R., Hose, G. C., Eamus, D. & Licari, D., 2006, In : Australian Journal of Botany. 54, 2, p. 221-229 9 p.

Vegetation responses to *Pinus radiata* (D. Don) invasion: A multivariate analysis using principal response curves

Baker, A. C., Hose, G. C. & Murray, B. R., 2006, In : Proceedings of the Linnean Society of New South Wales. 127, 1, p. 191-197 7 p.

Depauperate macroinvertebrates in a mine affected stream: Clean water may be the key to recovery

Battaglia, M., Hose, G. C., Turak, E. & Warden, B., Nov 2005, In : Environmental Pollution. 138, 1, p. 132-141 10 p.

Toxicity of endosulfan to *Paratya australiensis* kemp (Decapoda: Atyidae) and *Jappa kutera* harker (Ephemeroptera: Leptophlebiidae) in field-based tests

Hose, G. C. & Wilson, S. P., Nov 2005, In : Bulletin of Environmental Contamination and Toxicology. 75, 5, p. 882-889 8 p.

Assessing the need for groundwater quality guidelines for pesticides using the species sensitivity distribution approach

Hose, G. C., Oct 2005, In : Human and Ecological Risk Assessment. 11, 5, p. 951-966 16 p.

Life-history correlates of plant invasiveness at regional and continental scales

Hamilton, M. A., Murray, B. R., Cadotte, M. W., Hose, G. C., Baker, A. C., Harris, C. J. & Licari, D., Oct 2005, In : Ecology Letters. 8, 10, p. 1066-1074 9 p.

Life-history and ecological correlates of decline and extinction in the endemic Australian frog fauna

Murray, B. R. & Hose, G. C., Aug 2005, In : Austral Ecology. 30, 5, p. 564-571 8 p.

A meta-analysis of the interspecific relationship between seed size and plant abundance within local communities

Murray, B. R., Kelaher, B. P., Hose, G. C., Figueira, W. F. & Leishman, M. R., Jul 2005, In : Oikos. 110, 1, p. 191-194 4 p.

The interspecific range size-body size relationship in Australian frogs

Murray, B. R. & Hose, G. C., Jul 2005, In : Global Ecology and Biogeography. 14, 4, p. 339-345 7 p.

Hyporheic macroinvertebrates in riffle and pool areas of temporary streams in south eastern Australia

Hose, G. C., Jones, P. & Lim, R. P., Jan 2005, In : Hydrobiologia. 532, 1, p. 81-90 10 p.

Ecosystem services: An ecophysiological examination

Eamus, D., Macinnis-Ng, C. M. O., Hose, G. C., Zeppel, M. J. B., Taylor, D. T. & Murray, B. R., 2005, In : Australian Journal of Botany. 53, 1, p. 1-19 19 p.

Spatial and rainfall related patterns of bacterial contamination in Sydney Harbour estuary

Hose, G. C., Gordon, G., McCullough, F. E., Pulver, N. & Murray, B. R., 2005, In : Journal of Water and Health. 3, 4, p. 349-358 10 p.

Confirming the species-sensitivity distribution concept for endosulfan using laboratory, mesocosm, and field data

Hose, G. C. & Van Den Brink, P. J., Oct 2004, In : Archives of Environmental Contamination and Toxicology. 47, 4, p. 511-520 10 p.

Water quality guidelines to protect groundwater-dependent ecosystems

Hose, G. C., Murray, B. R. & Eamus, D., Apr 2004, In : Ecological Management and Restoration. 5, 1, p. 78-80 3 p.

Reproducibility of AUSRIVAS rapid bioassessments using macroinvertebrates

Hose, G., Turak, E. & Waddell, N., Mar 2004, In : Journal of the North American Benthological Society. 23, 1, p. 126-139 14 p.

Toxicity of endosulfan to *Atalophlebia* spp. (ephemeroptera) in the laboratory, mesocosm, and field

Hose, G. C., Hyne, R. V. & Lim, R. P., Dec 2003, In : Environmental Toxicology and Chemistry. 22, 12, p. 3062-3068 7 p.

Short-term exposure to aqueous endosulfan affects macroinvertebrate assemblages

Hose, G. C., Lim, R. P., Hyne, R. V. & Pablo, F., Oct 2003, In : Ecotoxicology and Environmental Safety. 56, 2, p. 282-294 13 p.

Groundwater-dependent ecosystems in Australia: It's more than just water for rivers

Murray, B. R., Zeppel, M. J. B., Hose, G. C. & Eamus, D., Aug 2003, In : Ecological Management and Restoration. 4, 2, p. 110-113 4 p.

Spider webs as environmental indicators

Hose, G. C., James, J. M. & Gray, M. R., Dec 2002, In : Environmental Pollution. 120, 3, p. 725-733 9 p.

A pulse of endosulfan-contaminated sediment affects macroinvertebrates in artificial streams

Hose, G. C., Lim, R. P., Hyne, R. V. & Pablo, F., 2002, In : Ecotoxicology and Environmental Safety. 51, 1, p. 44-52 9 p.