Qualifications

Employment

Professor
School of Biological Sciences
MONASH UNIVERSITY
31 Jan 2005 → present

President
Australian Society of Plant Scientists Inc
Weston Creek, Australia
1 Jan 2010 → 1 Jan 2012

Research Fellow
University of Melbourne
Parkville, Australia
1 Jan 2000 → 1 Jan 2004

Research Assistant
University of Melbourne
Parkville, Australia
1 Jan 1979 → 1 Jan 1982

Prizes

Dean's Award for Excellence in Teaching - Monash University
Gleadow, Roslyn (Recipient), 2008

Dean's Award for Excellence in Teaching, Faculty of Science 2008 - Monash University
Gleadow, Roslyn (Recipient), 2008

Faculty of Science Award for Excellence in Innovation and External Collaboration, 2010 - Monash University
Gleadow, Roslyn (Recipient), 2010

Faculty of Science Award for Excellence in Postgraduate Supervision
Gleadow, Roslyn (Recipient), 2021

Faculty of Science Award for External Collaboration and Industry Engagement - Monash University
Gleadow, Roslyn (Recipient), 2010

Faculty of Science Award for Occupational Health, Safety and Environment - Faculty of Science, Monash University
Gleadow, Roslyn (Recipient), 2008

Faculty of Science Award for Research Impact (Economic and Social) - Faculty of Science, Monash University
Gleadow, Roslyn (Recipient), 2015

Faculty of Science, Occupational, Health, Safety and Environment award 2010 - Monash University
Gleadow, Roslyn (Recipient), 2010

Honorary Professor, The University of Queensland
Gleadow, Roslyn (Recipient), 2018
JG Wood Lecture
Gleadow, Roslyn (Recipient), 25 Nov 2019

Life membership, Australian Society of Plant Scientists
Gleadow, Roslyn (Recipient), 30 Sept 2018

Special Award for Women with Career Interruptions - The University of Melbourne
Gleadow, Roslyn (Recipient), 1990

Research output
Wounding and methyl jasmonate increase cyanogenic glucoside concentrations in *Sorghum bicolor* via upregulation of biosynthesis
Sohail, M. N., O’Donnell, N. H., Kaiser, B. N., Blomstedt, C. K. & Gleadow, R. M., Jun 2023, In: Plant Biology. 25, 4, p. 498-508 11 p.

Cassava
Gleadow, R., Maher, K. & Cliff, J., 22 May 2023, In: Current Biology. 33, 10, p. R384-R386 3 p.

Is the Invasiveness of *Pittosporum undulatum* in Eucalypt Forests Explained by the Wide Ranging Effects of Its Secondary Metabolites?
Pasquini, D., dos Santos Nascimento, L. B., Brunetti, C., Ferrini, F. & Gleadow, R. M., Jan 2023, In: Forests. 14, 1, 23 p., 39.

Regulation of cyanogenic glucosides in wild and domesticated Eusorghum taxa
Myrans, H. & Gleadow, R. M., Oct 2022, In: Plant Biology. 24, 6, p. 1084-1088 5 p.

Acclimation to water stress improves tolerance to heat and freezing in a common alpine grass
Sumner, E. E., Williamson, V. G., Gleadow, R. M., Wevill, T. & Venn, S. E., 17 Aug 2022, In: Oecologia. 199, p. 831–843 13 p.

Cyanide Content of Cassava Food Products Available in Australia
Quinn, A. A., Myrans, H. & Gleadow, R. M., 1 May 2022, In: Foods. 11, 10, 7 p., 1384.

Multivariate selection mediated by aridity predicts divergence of drought-resistant traits along natural aridity gradients of an invasive weed
Carvalho, C., Davis, R., Connallon, T., Gleadow, R. M., Moore, J. L. & Uesugi, A., May 2022, In: New Phytologist. 234, 3, p. 1088-1100 13 p.

Dhurrin increases but does not mitigate oxidative stress in droughted *Sorghum bicolor*
Sohail, M. N., Quinn, A. A., Blomstedt, C. K. & Gleadow, R. M., Apr 2022, In: Planta. 255, 4, 12 p., 74.

Transcript profiles of wild and domesticated sorghum under water-stressed conditions and the differential impact on dhurrin metabolism
Ananda, G. K. S., Norton, S. L., Blomstedt, C., Furtado, A., Møller, B. L., Gleadow, R. & Henry, R. J., Feb 2022, In: Planta. 255, 2, 19 p., 51.

Cyanogenesis in the *Sorghum* Genus: From Genotype to Phenotype
Cowan, M., Møller, B. L., Norton, S., Knudsen, C., Crocoll, C., Furtado, A., Henry, R., Blomstedt, C. & Gleadow, R. M., Jan 2022, In: Genes. 13, 1, 17 p., 140.
Variant analysis of grain size related genes in the genus *Sorghum*
Ananda, G. K. S., Norton, S. L., Barnes, E., Furtado, A., Møller, B. L., Gleadow, R. & Henry, R. J., 2022, (Accepted/In press) In: Genetic Resources and Crop Evolution. 70, p. 1377–1394 18 p.

Regulation of dhurrin pathway gene expression during *Sorghum bicolor* development
Gleadow, R. M., McKinley, B. A., Blomstedt, C. K., Lamb, A. C., Møller, B. L. & Mullet, J. E., Dec 2021, In: Planta. 254, 6, 22 p., 119.

Effects of salinity on the growth and nutrition of taro (*Colocasia esculenta*): Implications for food security
Lloyd, G. R., Uesugi, A. & Gleadow, R. M., Nov 2021, In: Plants. 10, 11, 17 p., 2319.

Phylogenetic relationships in the *Sorghum* genus based on sequencing of the chloroplast and nuclear genes
Ananda, G., Norton, S., Blomstedt, C., Furtado, A., Møller, B., Gleadow, R. & Henry, R., Nov 2021, In: The Plant Genome. 14, 3, 16 p., e20123.

Do mycorrhizae increase plant growth and pollutant removal in stormwater biofilters?
Palacios, Y. M., Gleadow, R., Davidson, C., Gan, W. & Winfrey, B., 1 Sept 2021, In: Water Research. 202, 9 p., 117381.

Genome-wide association study of cyanogenic glycosides, proline, sugars, and pigments in *Eucalyptus cladocalyx* after 18 consecutive dry summers
Mora-Poblete, F., Ballesta, P., Lobos, G. A., Molina-Montenegro, M., Gleadow, R., Ahmar, S. & Jiménez-Aspee, F., Jul 2021, In: Physiologia Plantarum. 172, 3, p. 1550-1569 20 p.

Bird community recovery following removal of an invasive tree
O'Leary, B. A., Burd, M., Venn, S. E. & Gleadow, R. M., Apr 2021, In: Ecological Solutions and Evidence. 2, 2, 11 p., e12080.

Variation in production of cyanogenic glucosides during early plant development: A comparison of wild and domesticated sorghum
Cowan, M. F., Blomstedt, C. K., Møller, B. L., Henry, R. J. & Gleadow, R. M., Apr 2021, In: Phytochemistry. 184, 11 p., 112845.

Nitrogen availability and allocation in sorghum and its wild relatives: Divergent roles for cyanogenic glucosides
Myrans, H., Vandegeer, R. K., Henry, R. J. & Gleadow, R. M., 1 Mar 2021, In: Journal of Plant Physiology. 258-259, 10 p., 153393.

High sink strength prevents photosynthetic down-regulation in cassava grown at elevated CO₂ concentration
Ruiz-Vera, U. M., De Souza, A. P., Ament, M. R., Gleadow, R. M. & Ort, D. R., 2 Feb 2021, In: Journal of Experimental Botany. 72, 2, p. 542-560 19 p.

Allocation of resources to cyanogenic glucosides does not incur a growth sacrifice in *Sorghum bicolor* (L.) Moench
Sohail, M. N., Blomstedt, C. K. & Gleadow, R. M., Dec 2020, In: Plants. 9, 12, 15 p., 1791.

Allocated resources to cyanogenic glucosides do not incur a growth sacrifice in *Sorghum bicolor* (L.) Moench
Myrans, H., Diaz, M. V., Khoury, C. K., Carver, D., Henry, R. J. & Gleadow, R., Dec 2020, In: Diversity and Distributions. 26, 12, p. 1727-1740 14 p.

Modelled distributions and conservation priorities of wild sorghums (*Sorghum Moench*)
Myrans, H., Diaz, M. V., Khoury, C. K., Carver, D., Henry, R. J. & Gleadow, R., Dec 2020, In: Diversity and Distributions. 26, 12, p. 1727-1740 14 p.

Wild Sorghum as a Promising Resource for Crop Improvement
Ananda, G. K. S., Myrans, H., Norton, S. L., Gleadow, R., Furtado, A. & Henry, R. J., 17 Jul 2020, In: Frontiers in Plant Science. 11, 14 p., 1108.

Matrix-Assisted Laser Desorption/Ionization-Mass Spectrometry Imaging of Metabolites during Sorghum Germination
Montini, L., Crocoll, C., Gleadow, R. M., Motawia, M. S., Janfelt, C. & Bjarnholt, N., 1 Jul 2020, In: Plant Physiology. 183, 3 , p. 925-942 18 p.
Elevated temperature and carbon dioxide alter resource allocation to growth, storage and defence in cassava (*Manihot esculenta*).
Forbes, S. J., Cernusak, L. A., Northfield, T. D., Gleadow, R. M., Lambert, S. & Cheesman, A. W., May 2020, In: Environmental and Experimental Botany. 173, 13 p., 103997.

Crop wild relatives as a genetic resource for generating low-cyanide, drought-tolerant *Sorghum*
Cowan, M. F., Blomstedt, C. K., Norton, S. L., Henry, R. J., Møller, B. L. & Gleadow, R., 1 Jan 2020, In: Environmental and Experimental Botany. 169, p. 1-14 14 p., 103884.

The interplay between water limitation, dhurrin, and nitrate in the low-cyanogenic *Sorghum* mutant *adult cyanide deficient class 1*
Rosati, V. C., Blomstedt, C. K., Møller, B. L., Garnett, T. & Gleadow, R., 15 Nov 2019, In: Frontiers in Plant Science. 10, p. 1-12 12 p., 1458.

Averting robo-bees: Why free-flying robotic bees are a bad idea
Gleadow, R., Hanan, J. & Dorin, A., 14 Nov 2019, In: Emerging Topics in Life Sciences. 3, 6, p. 723-729 7 p.

EXPERT REACTION: Global food sustainability needed to avoid damage to the planet
Gleadow, R., 20 Sept 2019, 2 p. The Global Plant Council.

Two Chloroflexi classes independently evolved the ability to persist on atmospheric hydrogen and carbon monoxide
Islam, Z. F., Cordero, P. R., Feng, J., Chen, Y-J., Bay, S. K., Jirapanjawat, T., Gleadow, R. M., Carere, C. C., Sttot, M., Chiri, E. & Greening, C. A., 1 Jul 2019, In: The ISME Journal. 13, 7, p. 1801-1813 13 p.

Overdosing with apricot kernels – seriously?
Beckmann, K. M. & Gleadow, R., 1 Feb 2019, In: Australasian Psychiatry. 27, 1, p. 92-93 2 p.

Investigation into the role of DNA methylation in cyanogenesis in *Sorghum* (*Sorghum bicolor* L. *Moench*)
Rosati, V. C., Quinn, A. A., Fromhold, S. M., Gleadow, R. & Blomstedt, C. K., 1 Jan 2019, In: Plant Growth Regulation. 88, 1, p. 73–85 13 p.

The role of spore size in the global pattern of co-occurrence among *Selaginella* species
Margaroni, S., Petersen, K. B., Gleadow, R. & Burd, M., 1 Jan 2019, In: Journal of Biogeography. 46, 4, p. 807-815 9 p.

Pacific Medical Student Association (PMSA); a report from a RANZCP sponsored inaugural medical student camp
Beckmann, K. M., Ram, B., Hinds, M., Parsonage, B., Alexander, A., Ma’u, E., Gleadow, R. & Arnold, J., 1 Dec 2018, In: Australasian Psychiatry. 26, 6, p. 669-669 1 p.

A comparison of photoautotrophic, heterotrophic, and mixotrophic growth for biomass production by the green alga *Scenedesmus* sp. (*Chlorophyceae*)
Kamalanathan, M., Chaisutyakorn, P., Gleadow, R. & Beardall, J., 15 Mar 2018, In: Phycologia. 57, 3, p. 309-317 9 p.

Label-free Raman hyperspectral imaging analysis localizes the cyanogenic glucoside dhurrin to the cytoplasm in sorghum cells
Heraud, P., Cowan, M. F., Marzec, K. M., Lindberg Moeller, B., Blomstedt, C. K. & Gleadow, R., 9 Feb 2018, In: Scientific Reports. 8, 1, 9 p., 2691.

Integrating the Passenger-Driver hypothesis and plant community functional traits to the restoration of lands degraded by invasive trees
O’Leary, B., Burd, M., Venn, S. E. & Gleadow, R., 15 Jan 2018, In: Forest Ecology and Management. 408, p. 112-120 9 p.

Counting the costs: Nitrogen partitioning in *Sorghum* mutants
Blomstedt, C. K., Rosati, V. C., Møller, B. L. & Gleadow, R., 1 Jan 2018, In: Functional Plant Biology. 45, 7, p. 705-718 14 p.
Photosynthetic physiology of *Scenedesmus* sp. (Chlorophyceae) under photoautotrophic and molasses-based heterotrophic and mixotrophic conditions
Kamalanathan, M., Dao, T. H. L., Chaisutyakorna, P., Gleadow, R. & Beardall, J., 8 Aug 2017, In: Phycologia. 56, 6, p. 666-674 9 p.

Biosynthesis, regulation, and significance of cyanogenic glucosides
Nielsen, L. J., Bjarnholt, N., Blomstedt, C., Gleadow, R. M. & Møller, B. L., Jan 2017, *Plant Specialized Metabolism: Genomics, Biochemistry, and Biological Functions*. Arimura, G. & Maffei, M. (eds.). Boca Raton FL USA: CRC Press, p. 131–156 26 p.

Use of a chemical inhibitor as an alternative approach to enhance lipid production in *Chlamydomonas reinhardtii* (Chlorophyceae)
Kamalanathan, M., Gleadow, R. & Beardall, J., 2017, In: Phycologia. 56, 2, p. 159-166 8 p.

Interactive effects of temperature and drought on cassava growth and toxicity: Implications for food security?
Brown, A. L., Cavagnaro, T. R., Gleadow, R. & Miller, R. E., Oct 2016, In: Global Change Biology. 22, 10, p. 3461–3473 13 p.

Resilience of cassava (*Manihot esculenta* Crantz) to salinity: implications for food security in low-lying regions
Gleadow, R., Pegg, A. & Blomstedt, C. K., Oct 2016, In: Journal of Experimental Botany. 67, 18, p. 5403-5413 11 p.

Sequencing wild and cultivated cassava and related species reveals extensive interspecific hybridization and genetic diversity
Bredeson, J. V., Lyons, J. B., Prochnik, S. E., Wu, G. A., Ha, C. M., Edsinger-Gonzales, E., Grimwood, J., Schmutz, J., Rabbi, I. Y., Egesi, C., Nauluvula, P., Lebot, V., Ndunguru, J., Mkamilo, G., Bart, R. S., Setter, T. L., Gleadow, R. M., Kulakow, P., Ferguson, M. E., Rounsley, S., & 1 othersRokhsar, D. S., 1 May 2016, In: Nature Biotechnology. 34, 5, p. 562-570 9 p.

Effects of down-regulating ornithine decarboxylase upon putrescine-associated metabolism and growth in *Nicotiana tabacum* L.
Dalton, H. L., Blomstedt, C. K., Neale, A. D., Gleadow, R., Deboer, K. & Hamill, J. D., 28 Apr 2016, In: Journal of Experimental Botany. 67, 11, p. 3367-3381 15 p.

Comparing the self-efficacy and writing-related abilities of native and non-native English-speaking students
Rayner, G., Papakonstantinou, T. & Gleadow, R., 1 Jan 2016, In: Cogent Education. 3, 1, 11 p., 1179164.

Drought-induced changes in nitrogen partitioning between cyanide and nitrate in leaves and stems of sorghum grown at elevated CO2 are age dependent
Gleadow, R. M., Ottman, M. J., Kimball, B. A., Wall, G. W., Pinter Jr, P. J., Lamorte, R. L. & Leavitt, S. W., 2016, In: Field Crops Research. 185, p. 97-102 6 p.

Impacts of nitrogen and phosphorus starvation on the physiology of *Chlamydomonas reinhardtii*
Kamalanathan, M., Pierangelini, M., Shearman, L. A., Gleadow, R. & Beardall, J., 2016, In: Journal of Applied Phycology. 28, 3, p. 1509-1520 12 p.

Metabolic consequences of knocking out UGT85B1, the gene encoding the glucosyltransferase required for synthesis of dhurrin in *Sorghum bicolor* (L. Moench)
Blomstedt, C. K., O'Donnell, N. H., Bjarnholt, N., Neale, A. D., Hamill, J. D., Møller, B. L. & Gleadow, R. M., 2016, In: Plant & Cell Physiology. 57, 2, p. 373-386 14 p.

Use of heterotrophy and mixotrophy for algal biomass production
Kamalanathan, M., Gleadow, R. M. & Beardall, J., 20 Aug 2015, p. 120-120. 1 p.
Design for learning - a case study of blended learning in a science unit
Gleadow, R. M., Macfarlan, B. & Honeydew, M., 2015, In: F1000Research. 4, 16 p., 898.

Impacts of phosphorus availability on lipid production by Chlamydomonas reinhardtii
Kamalanathan, M., Gleadow, R. M. & Beardall, J., 2015, In: Algal Research. 12, p. 191-196 6 p.

New tools for a new age: an evolution or revolution in higher education?
Gleadow, R. M., Honeydew, M. A., Ford, A., Isaac, B. L. & Abbott, K. L., 2015, In: F1000Research. 4, 11 p., 1502.

The bifurcation of the cyanogenic glucoside and glucosinolate biosynthetic pathways
Claussen, M., Kannangara, R. M., Olsen, C. E., Blomstedt, C. K. M. M., Gleadow, R. M., Jorgensen, K., Bak, S., Motawie, M. S. & Moller, B. L., 2015, In: The Plant Journal. 84, 3, p. 558-573 16 p.

Utilization of a high-throughput shoot imaging system to examine the dynamic phenotypic responses of a C4 cereal crop plant to nitrogen and water deficiency over time
Neilson, E. H., Edwards, A. M., Blomstedt, C. K. M. M., Berger, B., Moller, B. L. & Gleadow, R. M., 2015, In: Journal of Experimental Botany. 66, 7, p. 1817 - 1832 16 p.

Age versus stage: does ontogeny modify the effect of phosphorus and arbuscular mycorrhizas on above- and below-ground defence in forage sorghum?
Miller, R. E., Gleadow, R. M. & Cavagnaro, T., 2014, In: Plant Cell and Environment. 37, 4, p. 929 - 942 14 p.

Cyanogenic glycosides: synthesis, physiology, and phenotypic plasticity
Gleadow, R. M. & Moller, B. L., 2014, In: Annual Review of Plant Biology. 65, p. 155 - 185 31 p.

Iterative writing programs may generate higher student confidence about their ability to write, but not necessarily improved writing ability
Rayner, G. M., Papakonstantinou, T., Gleadow, R. M. & Abbott, K. L., 2014, In: Journal of Academic Language and Learning. 8, 2, p. 60 - 71 12 p.

The invasion of Pittosporum undulatum in the Dandenong Ranges, Victoria: realising predictions about rates and impact
Gleadow, R. M. & Walker, J., 2014, In: Plant Protection Quarterly. 29, 3, p. 111 - 117 7 p.

Crops for a future climate
Gleadow, R. M., Johnson, A. & Tausz, M., 2013, In: Functional Plant Biology. 40, 2, p. 1 - 4 4 p.

Drought adversely affects tuber development and nutritional quality of the staple crop cassava (Manihot esculenta Crantz)
Vandegeer, R. K., Miller, R. E., Bain, M., Gleadow, R. M. & Cavagnaro, T., 2013, In: Functional Plant Biology. 40, 2, p. 195 - 200 6 p.

Effects of PEG-induced osmotic stress on growth and dhurrin levels of forage sorghum
O'Donnell, N., Moller, B. L., Neale, A. D., Hamill, J. D., Blomstedt, C. K. M. M. & Gleadow, R. M., 2013, In: Plant Physiology and Biochemistry. 73, p. 83 - 92 10 p.

Summary of Session 2: climate change impacts on Victoria
Gleadow, R. M., 2013, In: Proceedings of the Royal Society of Victoria. 125, 1/2, p. 19 - 21 3 p.

A combined biochemical screen and TILLING approach identifies mutations in Sorghum bicolor L. Moench resulting in acyanogenic forage production
Blomstedt, C., Gleadow, R., O'Donnell, N., Naur, P., Jensen, K., Laursen, T., Olsen, C., Stuart, P., Hamill, J., Moller, B. & Neale, A., 2012, In: Plant Biotechnology Journal. 10, 1, p. 54 - 66 13 p.

Cassava about-FACE: Greater than expected yield stimulation of cassava (Manihot esculenta) by future CO2 levels
Rosenthal, D. M., Slattery, R. A., Miller, R. E., Grennan, A. K., Cavagnaro, T., Fauquet, C. M., Gleadow, R. M. & Ort, D. R., 2012, In: Global Change Biology. 18, 8, p. 2661 - 2675 15 p.
Drying and processing protocols affect the quantification of cyanogenic glucosides in forage sorghum
Gleadow, R. M., Moldrup, M. E., O'Donnell, N. & Stuart, P., 2012, In: Journal of the Science of Food and Agriculture. 92, 11, p. 2234 - 2238 5 p.

Estimating hydrogen cyanide in forage sorghum (Sorghum bicolor) by near-infrared spectroscopy
Fox, G. P., O'Donnell, N., Stewart, P. N. & Gleadow, R. M., 2012, In: Journal of Agricultural and Food Chemistry. 60, 24, p. 6183 - 6187 5 p.

Total cyanide content of cassava food products in Australia
Burns, A., Bradbury, J., Cavagnaro, T. & Gleadow, R., 2012, In: Journal of Food Composition and Analysis. 25, 1, p. 79 - 82 4 p.

Variations in the chemical composition of cassava (Manihot esculenta Crantz) leaves and roots as affected by genotypic and environmental variation
Burns, A. E., Gleadow, R. M., Zacarias, A., Cuambe, C. E., Miller, R. E. & Cavagnaro, T., 2012, In: Journal of Agricultural and Food Chemistry. 60, 19, p. 4946 - 4956 11 p.

Cyanogenic glycosides
Gleadow, R. M., Bjarnholt, N., Jorgensen, K., Fox, J. & Miller, R., 2011, Research Methods in Plant Sciences Volume 1 : Soil Allelochemicals. Narwal, S. S., Szajdak, L. & Sambietro, D. A. (eds.). USA: Stadium Press LLC, p. 283 - 310 28 p.

Plant nutrient acquisition and utilisation in a high carbon dioxide world
Cavagnaro, T., Gleadow, R. & Miller, R., 2011, In: Functional Plant Biology. 38, 2, p. 87 - 96 10 p.

Allocation of nitrogen to chemical defence and plant functional traits is constrained by soil N
Simon, J., Gleadow, R. & Woodrow, I., 2010, In: Tree Physiology. 30, 9, p. 1111 - 1117 7 p.

Cassava: the drought, war and famine crop in a changing world
Burns, A., Gleadow, R., Cliff, J., Zacarias, A. & Cavagnaro, T., 2010, In: Sustainability. 2, 11, p. 3572 - 3607 36 p.

Chemical ecology in coupled human and natural systems: people, manioc, multitrophic interactions and global change
McKey, D., Cavagnaro, T., Cliff, J. & Gleadow, R., 2010, In: Chemoecology. 20, 2, p. 109 - 133 25 p.

Effects of increasing carbon dioxide emissions and climate change on nutritional quality of food crops: a case study on cassava
Burns, A., Gleadow, R., Cliff, J. & Cavagnaro, T., 2010, In: United Nations System Standing Committee on Nutrition. News. 38, p. 49 - 53 5 p.

Predicting climate change impacts on yield and cyanogen levels of cassava, an important African staple
Gleadow, R., Borland, H. (ed.), Burns, A., Zacarias, A., Cliff, J., Miller, R., Bradbury, H. & Cavagnaro, T., 2010, p. 1 - 1. 1 p.

Message from meagerness
Gleadow, R., 1 Dec 2009, In: Scientist. 23, 12

Changes in nutritional value of cyanogenic Trifolium repens grown at elevated atmospheric CO2
Gleadow, R. M., Edwards, E. & Edwards, J., 2009, In: Journal of Chemical Ecology. 35, p. 476 - 478 3 p.

Genetic variation for early flowering, survival and growth in sugar gum (Eucalyptus cladocalyx F. Muell) in southern Atacama Desert
Mora, F., Gleadow, R. M., Perret, S. & Scapim, C., 2009, In: Euphytica. 169, 3, p. 335 - 344 10 p.
Growth and nutritive value of cassava (Manihot esculenta Cranz.) are reduced when grown in elevated CO.
Gleadow, R. M., Evans, J. R., McCaffery, S. & Cavagnaro, T. R., 2009, In: Plant Biology. 11, SUPPL.1, p. 76 - 82 7 p.

Climate change and food security: predicted changes in nutritional quality of cassava
Gleadow, R., Hawker, G. (ed.) & Cavagnaro, T., 2008, p. 1 - 1. 1 p.

Frequency and distribution of cyanogenic glycosides in Eucalyptus L’Herit
Gleadow, R. M., Haburjak, J., Dunn, J., Conn, M. & Conn, E., 2008, In: Phytochemistry. 69, 9, p. 1870 - 1874 5 p.

Micropropagation of Eucalyptus polybractea selected for key essential oil traits
Goodger, J. Q. D., Heskes, A., King, D., Gleadow, R. M. & Woodrow, I., 2008, In: Functional Plant Biology. 35, p. 247 - 251 5 p.

Plasmodium falciparum growth is arrested by monoterpenes from eucalyptus oil
Su, V., King, D., Woodrow, I., McFadden, G. I. & Gleadow, R. M., 2008, In: Flavour and Fragrance Journal. 23, 5, p. 315 - 318 4 p.

Focal plane array infrared imaging: a new way to analyse leaf tissue
Heraud, P. R., Caine, S., Sanson, G. D., Gleadow, R. M., Wood, B. R. & McNaughton, D., 2007, In: New Phytologist. 173, 1, p. 216 - 225 10 p.

Temperature thresholds for germination and survival of Pittosporum undulatum: implications for management by fire
Gleadow, R. M. & Narayan, I., 2007, In: Acta Oecologica. 31, 2, p. 151 - 157 7 p.

Functional Plant Biology: Foreword
Schmidt, S., Gleadow, R. & Robinson, S., 16 May 2006, In: Functional Plant Biology. 33, 5

Foreward to ‘Plant and ecosystem physiology: research and methodology’
Schmidt, S., Gleadow, R. M. & Robinson, S., 2006, In: Functional Plant Biology. 33, 5, p. v - v 1 p.

Growth cost and ontogenetic expression patterns of defence in cyanogenic Eucalyptus spp.
Goodger, J. Q. D., Gleadow, R. M. & Woodrow, I. E., 2006, In: Trees. 20, p. 757 - 765 9 p.

Regulation of oil accumulation in single glands of Eucalyptus polybractea
King, D. J., Gleadow, R. M. & Woodrow, I. E., 2006, In: New Phytologist. 172, 3, p. 440 - 451 12 p.

The accumulation of terpenoid oils does not incur a growth cost in Eucalyptus polybractea seedlings
King, D. J., Gleadow, R. M. & Woodrow, I. E., 2006, In: Functional Plant Biology. 33, 5, p. 497 - 505 9 p.

Cyanogenesis in tropical Prunus turneriana: Characterisation, variation and response to low light
Miller, R. E., Gleadow, R. M. & Woodrow, I., 2004, In: Functional Plant Biology. 31, p. 491 - 503 13 p.

Terpene deployment in Eucalyptus polybractea: relationships with leaf structure, environmental stresses, and growth
King, D., Gleadow, R. M. & Woodrow, I., 2004, In: Functional Plant Biology. 31, p. 451 - 460 10 p.

Cyanogenic Eucalyptus nobilis is polymorphic for both prunasin and specific β-glucosidases
Gleadow, R. M., Vecchies, A. C. & Woodrow, I. E., 1 Jan 2003, In: Phytochemistry. 63, 6, p. 699-704 6 p.

Cyanogenic Eucalyptus nobilis is polymorphic for both prunasin and specific beta-glycosidases
Gleadow, R. M., Vecchies, A. C. & Woodrow, I., 2003, In: Phytochemistry. 63, p. 699 - 704 6 p.
Light alters the allocation of nitrogen to cyanogenic glycosides in Eucalyptus cladocalyx
Burns, A. E., Gleadow, R. M. & Woodrow, I. E., 1 Dec 2002, In: Oecologia. 133, 3, p. 288-294 7 p.

Constraints on effectiveness of cyanogenic glycosides in herbivore defense
Gleadow, R. M. & Woodrow, I., 2002, In: Journal of Chemical Ecology. 28, 7, p. 1301 - 1313 13 p.

Defense chemistry of cyanogenic Eucalyptus cladocalyx seedlings is affected by water supply
Gleadow, R. M. & Woodrow, I., 2002, In: Tree Physiology. 22, p. 939 - 945 7 p.

Influence of water stress on cyanogenic capacity in Eucalyptus cladocalyx
Woodrow, I., Slocum, D. J. & Gleadow, R. M., 2002, In: Functional Plant Biology. 29, 1, p. 102 - 110 9 p.

Light alters the allocation of nitrogen to cyanogenic glycosides in Eucalyptus cladocalyx
Burns, A. E., Gleadow, R. M. & Woodrow, I., 2002, In: Oecologia. 133, p. 288 - 294 7 p.

Polymorphism in cyanogenic glycoside content and cyanogenic β-glucosidase activity in natural populations of Eucalyptus cladocalyx
Gleadow, R. M. & Woodrow, I. E., 1 Jan 2000, In: Australian Journal of Plant Physiology. 27, 7, p. 693-699 7 p.

Polymorphism in cyanogenic glycoside content and cyanogenic beta-glucosidase activity in natural populations of Eucalyptus cladocalyx
Gleadow, R. M. & Woodrow, I., 2000, In: Australian Journal of Plant Physiology. 27, p. 693 - 699 7 p.

Temporal and spatial variation in cyanogenic glycosides in Eucalyptus cladocalyx
Gleadow, R. M. & Woodrow, I., 2000, In: Tree Physiology. 20, p. 591 - 598 8 p.

Enhanced CO2 alters the relationship between photosynthesis and defence in cyanogenic Eucalyptus cladocalyx F. Muell
Gleadow, R. M., Foley, W. J. & Woodrow, I. E., 1 Jan 1998, In: Plant Cell and Environment. 21, 1, p. 12 - 22 11 p.

Innovative teaching methods in Biology incorporating self-study and multimedia programs
Gleadow, R. M., Bain, J. (ed.), Ladiges, P., Lietzow, E. (ed.), Handasyde, K. A., Ross, B. (ed.), Burgman, M., Dodds, A. & Lawrence, J., 1993, p. 305 - 318. 14 p.

Effect of post-anthesis drought on cell division and starch accumulation in developing wheat grains
Nicolas, M. E., Gleadow, R. M. & Dalling, M. J., 1985, In: Annals of Botany. 55, 3, p. 433 - 444 12 p.

Effects of drought and high temperature on grain growth in wheat
Nicolas, M. E., Gleadow, R. M. & Dalling, M. J., 1984, In: Australian Journal of Plant Physiology. 11, 6, p. 553 - 566 14 p.

Invasion by Pittosporum undulatum of the forests of Central Victoria. IV shade tolerance
Gleadow, R. M., Rowan, K. S. & Ashton, D. H., 1983, In: Australian Journal of Botany. 31, 2, p. 151 - 160 10 p.

Invasion by Pittosporum undulatum of the forests of Central Victoria. II Dispersal, germination and establishment
Gleadow, R. M., 1982, In: Australian Journal of Botany. 30, 2, p. 185 - 198 14 p.

Invasion by Pittosporum undulatum of the forests of Central Victoria. III Effects of temperature and light on growth and drought resistance
Gleadow, R. M. & Rowan, K. S., 1982, In: Australian Journal of Botany. 30, 3, p. 347 - 357 11 p.

Variation in endosperm characteristics and nitrogen content in six wheat lines
Gleadow, R. M., Dalling, M. J. & Halloran, G. M., 1982, In: Australian Journal of Plant Physiology. 9, p. 539 - 551 13 p.
Invasion by Pittosporum undulatum of the forests of Central Victoria. Invasion patterns and plant morphology
Gleadow, R. M. & Ashton, D. H., 2 Jun 1981, In: Australian Journal of Botany. 29, 6, p. 705 - 720 16 p.

Press/Media

Bitter Harvest: Cassava and Konzo, the Crippling Disease
Roslyn Gleadow
3/10/16 → 13/11/16
2 Media contributions

Cassava: Achieving food security and safety in the face of climate change
Roslyn Gleadow
19/12/17
1 Media contribution

Effective communication is a science as much as any experiment
Roslyn Gleadow
15/05/14
1 item of Media coverage

Experts say GM study poses more questions than gives answers
Roslyn Gleadow
20/09/12
1 item of Media coverage

Food for thought (cassava)
Roslyn Gleadow
6/06/14
1 item of Media coverage

Fostering plain-speaking scientists
Roslyn Gleadow & Rachel Elizabeth Nowak
25/01/13
1 Media contribution

Getting heard: impactful knowledge exchange
Roslyn Gleadow
10/06/19
1 Media contribution

Global food sustainability needed to avoid catastrophic damage to the planet
Roslyn Gleadow
17/01/19
1 Media contribution

How African scientists are improving cassava to help feed the world
Roslyn Gleadow
9/01/19
1 Media contribution

Is our future sustainable? - Episode 2: A Different Lens
Roslyn Gleadow
7/11/17
1 Media contribution
Lasers search for cyanide in food plants
Roslyn Gleadow
12/02/18
1 item of Media coverage

On the shoulders of giants
Roslyn Gleadow
9/10/12
1 Media contribution

Peer Review: Close inspection
Roslyn Gleadow
12/05/16
1 Media contribution

Root problem: Climate change is putting food security at risk
Roslyn Gleadow
19/09/19
1 Media contribution

Six actual, bona fide experts on the 7 best things you can do to fight climate change.
Roslyn Gleadow
20/09/19
1 Media contribution

Taking science out there - via the written word
Roslyn M Gleadow
11/11/14 → 17/11/14
1 item of Media coverage, 1 Media contribution

Testing their mettle: Monash students try their hand at writing about science
Roslyn Gleadow
31/05/15
1 Media contribution

The Age Science Communication Prize
Roslyn Gleadow
23/12/13
1 Media contribution

The poisoned plate of climate change
Roslyn Gleadow
7/11/17
1 Media contribution