**Publications**

1. Reynolds KB, Taylor MC, Cullerne DP, Blanchard CL, Wood CC, Singh SP, Petrie JR. (2017). A reconfigured Kennedy pathway which promotes efficient accumulation of medium chain fatty acids in leaf oils. Plant Biotech J. doi: 10.1111/pbi.12724
2. Mitchell M, Pritchard J, Okada S, Larroque O, Yulia D, Pettolino F, Szydlowski N, Singh S, Liu Q and Ral JP (2017). Oil Accumulation in Transgenic Potato Tubers Alters Starch Quality and Nutritional Profile. Front. Plant Sci., 12 April 2017 | https://doi.org/10.3389/fpls.2017.00554.
3. Allen R, Tilbrook K, Warden A, Campbell P, Rolland V, Singh S and Wood C (2017). Expression of 16 Nitrogenase Proteins within the Plant Mitochondrial Matrix. Frontiers in Plant Science doi: 10.3389/fpls.2017.00287.
4. Vanhercke T, Divi, U, El Tahchy A, Liu Q, Mitchell M, Taylor, M, Eastmond P, Bryant F, Mechanicos A, Blundell C, Zhi Y, Srinivas B, Shrestha P, Zhou Z, Ral JP, White R, Green A, Singh S, Petrie J (2016). Step changes in leaf oil accumulation via iterative metabolic engineering. *Metabolic Engineering*, DOI: 10.1016/j.ymben.2016.12.007.
5. El Tahchy A, Reynolds K, Petrie, J, Singh S, Vanhercke T (2016). Thioesterase overexpression in Nicotiana benthamiana leaf increases the fatty acid flux into triacylgycerol. *FEBS Letters*, DOI: 10.1002/1873-3468.12539
6. Li D, Moorman R, Vanhercke T, Singh S, Jackson, C (2016). Classification and substrate head-group specificity of membrane fatty acid desaturases. *Computational and Structural Biotechnology Journal*, DOI: 10.1016/j.csbj.2016.08.003.
7. Rahman MM, Divi UK, Liu Q, Singh SP, Kilaru A (2016). Oil-rich nonseed tissues for enhancing plant oil production. *CAB Reviews Perspectives in Agriculture Veterinary Science Nutrition and Natural Resources*, 11(021):1-11.
8. Liu Q, Wu, M, Zhang B, Shrestha P, Petrie, J, Green A, Singh S (2016). Genetic enhancement of palmitic acid accumulation in cotton seed oil through RNAi down-regulation of ghKAS2 encoding β-ketoacyl-ACP synthase II (KASII). *Plant Biotechnology Journal*, DOI: 10.1111/pbi.12598.
9. Liu Q, Guo Q, Akbar S, El Tahchy, Mitchell M, Li Z, Shrestha P, Vanhercke T, Ral JP, Liang G, Wang M, White R, Larkin P, Singh S, Petrie J(2016). Genetic enhancement of oil content in potato tuber (Solanum tuberosum L.) through an integrated metabolic engineering strategy. Plant Biotechnology Journal, DOI: 10.1111/pbi.12590.
10. Shrestha, Callahan D, Singh S, Petrie J, Zhou XR (2016). Reduced Triacylglycerol Mobilization during Seed Germination and Early Seedling Growth in Arabidopsis Containing Nutritionally Important Polyunsaturated Fatty Acids*. Frontiers in Plant Science* Volume: 7 DOI: 10.3389/fpis.2016.01402.
11. Sahni S, Prasad B, Liu Q, Singh SP, Priti K (2016). Overexpression of the brassinosteroid biosynthetic gene DWF4 in Brassica napus simultaneously increases seed yield and stress tolerance. *Scientific Reports* Volume: 6.
12. Li X, Mei D, Singh S, Liu, Q (2016). Down-regulation of crambe fatty acid desaturase and elongase in Arabidopsis and crambe resulted in significantly increased oleic acid content in seed oil. *Plant Biotechnology Journal*, 14:323-331.
13. Divi UK, Zhou XR, Wang P, Butlin J, Zhang DM, Liu QL, Vanhercke T, Petrie JP, Talbot M, White RG, Taylor JM, Larkin P, Singh SP (2016). Deep sequencing of fruit transcriptome and lipid accumulation in a non-seed tissue of Chinese Tallow, a potential biofuel crop. *Plant and Cell Physiology*, 57 Issue: 1. 
14. Rapson S, Wu M, Okada S, Das A, Shrestha P, Zhou XR, Wood C, Green A, Singh S, Liu Q (2015). A case study on the genetic origin of the high oleic acid trait through FAD2-1 DNA sequence variation in safflower (Carthamus tinctorius L.). *Frontiers in Plant Science*, 6: 691.
15. Siqueira GF, Pierre JS, El Tahchy A, Glassop D, Singh S, Bonnett GD, Rae AL (2015). Sugarcane seed composition and changes during artificial ageing. *Crop & Pasture Science*, 66: 1180-1189
16. Naim F, Shreshtha P, Singh SP, Waterhouse PM, Wood C (2015). Stable expression of silencing-suppressor protein enhances the performance and longevity of an engineered metabolic pathway. *Plant Biotechnology Journal*, 14 : 418-1426
17. El Tahchy A, Petrie J, Shrestha P, Vanhercke T, Singh S (2015). Expression of mouse MGAT in Arabidopsis results in increased lipid accumulation in seeds. *Frontiers in Plant Science*, DOI: 10.3389/fpls.2015.01180
18. Li X, Mei D, Liu Q, Fan J, Singh S, Green A, Zhou XR, Zhu LH (2015). Down‐regulation of crambe fatty acid desaturase and elongase in Arabidopsis and crambe resulted in significantly increased oleic acid content in seed oil. *Plant Biotechnology Journal*, DOI: 10.1111/pbi.12386
19. Reynolds KB, Taylor MC, Zhou XR, Vanhercke T, Wood C, Blanchard C, Singh S, Petrie J (2015). Metabolic engineering of medium-chain fatty acid biosynthesis in Nicotiana benthamiana plant leaf lipids. *Frontiers in Plant Science*, 6: 164.
20. Chen Y, Zhou XR, Dribnenki P, Singh S, Green A (2015). Development of high oleic oil crop platform in flax through RNAi-mediated multiple FAD2 gene silencing. *Plant Cell Reports*, DOI 10.1007/s00299-015-1737-5
21. Zhou XR, Callahan DL, Shrestha P, Liu Q, Petrie J and Singh S (2014). Lipidomic analysis of Arabidopsis seed genetically engineered to contain DHA. *Frontiers in Plant Physiology* 2014, 5: 419.
22. Vanhercke T, Petrie J R, Singh SP. Energy densification in vegetative biomass through metabolic engineering. *Biocatalysis and Agricultural Biotechnology* 2014, 3: 75–80.
23. Divi UK, El Tahchy A, Vanhercke T, Petrie J, Robles-Martinez J, Singh S (2014). [Transcriptional and biochemical responses of monoacylglycerol acyltransferase-mediated oil synthesis and associated senescence-like responses in Nicotiana benthamiana.](http://scholar.google.com.au/citations?view_op=view_citation&hl=en&user=VZvLoVIAAAAJ&sortby=pubdate&citation_for_view=VZvLoVIAAAAJ:umqufdRvDiIC) *Frontiers in Plant Physiology*, 5: 204.
24. Mansour PM, Shrestha P, Belide S, Petrie JR, Nichols PD, Singh SP. Characterisation of oilseed lipids from DHA-producing *Camelina sativa*. *Nutrients: 2014*, 6 :776-789.
25. Nichols PD, Glencross B, Petrie J and Singh SP. Readily Available Sources of Long-chain Omega-3 Oils: Is Farmed Australian Seafood a Better Source of the Good Oil Than Wild-Caught Seafood? *Nutrients* 2014, 6: 1063-1079.
26. Petrie JR, Pushkar Shrestha, Kennedy Y, Lester G, Mansour P, Liu Q, Belide S, Nichols P and Singh SP.Metabolic engineering Camelina seeds with fish oil-like levels of DHA. *PLoS ONE* 2014, 9(1): e85061. doi:10.1371/journal.pone.0085061.
27. Vanhercke T, Tahchy A, Liu Q, Zhou XR, Shrestha P, Divi UK, Ral Mansour PM, Nichols PD, James CN, Horn PJ, Chapman KD, Beaudoin F, Larkin P, Defeyter R, Singh SP and Petrie JR. Metabolic engineering of biomass for high energy density: oilseed-like triacylglycerol yields from plant leaves. *Plant Biotechnology Journal* 2014, 12: 231-239.
28. Liu Q, Cao S, Zhou XR, Wood C, Green A, Singh S: Nonsense-mediated mRNA degradation of CtFAD2-1 and development of a perfect molecular marker for *olol* mutation in high oleic safflower (*Carthamus tinctorius* L.). *Theoretical and Applied Genetics* 2013, 126: 2219-2231
29. Zhou X-R, Shrestha P, Yin F, Petrie JR, Singh SP: AtDAGT2 is a functional acyl-CoA: diacylglycerol acyltransferase and displays different acyl-CoA substrate preferences than AtDGAT1. *FEBS Letters 2013,* 587: 364-369.
30. Vanhercke T, Wood CC, Stymne S, Singh SP, Green AG: Metabolic engineering of plant oils and waxes for use as industrial feedstocks. *Plant Biotechnology Journal* 2013, 11: 197-210.
31. Vanhercke T, El Tahchy A, Shrestha P, Zhou X-R, Singh SP, Petrie JR: Synergistic effect of WRI1 and DGAT1 coexpression on triacylglycerol biosynthesis in plants. *FEBS letters* 2013, 587: 364-369.
32. Jiao X, Zhao X, Zhou X-R, Green AG, Fan Y, Wang L, Singh SP, Liu Q: Comparative Transcriptomic Analysis of Developing Cotton Cotyledons and Embryo Axis. *PloS one* 2013, 8:e71756.
33. Cao S, Zhou X-R, Wood CC, Green AG, Singh SP, Liu L, Liu Q: A large and functionally diverse family of Fad2 genes in safflower (Carthamus tinctorius L.). *Bmc Plant Biol* 2013, 13(1):5.
34. Belide S, Zhou X-R, Kennedy Y, Lester G, Shrestha P, Petrie JR, Singh SP: Rapid expression and validation of seed-specific constructs in transgenic LEC2 induced somatic embryos of Brassica napus. *Plant Cell, Tissue and Organ Culture (PCTOC)* 2013:1-11.
35. Petrie JR, Vanhercke T, Shrestha P, El Tahchy A, White A, Zhou X-R, Liu Q, Mansour MP, Nichols PD Singh SP: Recruiting a new substrate for triacylglycerol synthesis in plants: the monoacylglycerol acyltransferase pathway. *PloS one* 2012, 7(4):e35214.
36. Petrie JR, Shrestha P, Zhou X-R, Mansour MP, Liu Q, Belide S, Nichols PD, Singh SP: Metabolic engineering plant seeds with fish oil-like levels of DHA. *PloS one* 2012, 7(11):e49165.
37. Petrie JR, Shrestha P, Belide S, Mansour MP, Liu Q, Horne J, Nichols PD, Singh SP: Transgenic production of arachidonic acid in oilseeds. *Transgenic Res* 2012, 21(1):139-147.
38. Belide S, Petrie JR, Shrestha P, Singh SP: Modification of seed oil composition in Arabidopsis by artificial microRNA-mediated gene silencing. *Frontiers in plant science* 2012, 3.
39. Zhou X-R, Green AG, Singh SP: Caenorhabditis elegans Δ12-desaturase FAT-2 is a bifunctional desaturase able to desaturate a diverse range of fatty acid substrates at the Δ12 and Δ15 positions. *J Biol Chem* 2011, 286(51):43644-43650.
40. Vanhercke T, Shrestha P, Green AG, Singh SP: Mechanistic and structural insights into the regioselectivity of an acyl-CoA fatty acid desaturase via directed molecular evolution. *J Biol Chem* 2011, 286(15):12860-12869.
41. Petrie JR, Singh SP: Expanding the docosahexaenoic acid food web for sustainable production: engineering lower plant pathways into higher plants. *AoB Plants* 2011, plr011.
42. Belide S, Hac L, Singh SP, Green AG, Wood CC: Agrobacterium-mediated transformation of safflower and the efficient recovery of transgenic plants via grafting. *Plant Methods* 2011, 7(1):12.
43. Petrie JR, Shrestha P, Mansour MP, Nichols PD, Liu Q, Singh SP: Metabolic engineering of omega-3 long-chain polyunsaturated fatty acids in plants using an acyl-CoA Δ6-desaturase with ω3-preference from the marine microalga *Micromonas pusilla*. *Metab Eng* 2010, 12(3):233-240.
44. Petrie JR, Shrestha P, Liu Q, Mansour MP, Wood CC, Zhou X-R, Nichols PD, Green AG, Singh SP: Rapid expression of transgenes driven by seed-specific constructs in leaf tissue: DHA production. *Plant Methods* 2010, 6(1):8.
45. Petrie JR, Mackenzie AM, Shrestha P, Liu Q, Frampton DF, Robert SS, Singh SP: Isolation of three novel long‐chain polyunsaturated fatty acid δ9‐elongases and the transgenic assembly of the entire pavlova salina docosahexaenoic acid pathway in *nicotiana benthamiana*. *J Phycol* 2010, 46(5):917-925.
46. Petrie JR, Liu Q, Mackenzie AM, Shrestha P, Mansour MP, Robert SS, Frampton DF, Blackburn SI, Nichols PD, Singh SP: Isolation and characterisation of a high-efficiency desaturase and elongases from microalgae for transgenic LC-PUFA production. *Mar Biotechnol* 2010, 12(4):430-438.
47. Nichols PD, Petrie J, Singh S: Long-chain omega-3 oils–an update on sustainable sources. *Nutrients* 2010, 2(6):572-585.
48. Wood CC, Petrie JR, Shrestha P, Mansour MP, Nichols PD, Green AG, Singh SP: A leaf‐based assay using interchangeable design principles to rapidly assemble multistep recombinant pathways. *Plant biotechnology journal* 2009, 7(9):914-924.
49. Robert SS, Petrie JR, Zhou X-R, Mansour MP, Blackburn SI, Green AG, Singh SP, Nichols PD: Isolation and characterisation of a Δ5-fatty acid elongase from the marine microalga Pavlova salina. *Mar Biotechnol* 2009, 11(3):410-418.
50. Liu Q, Singh S, Chapman K, Green A: Bridging traditional and molecular genetics in modifying cottonseed oil. In: *Genetics and Genomics of Cotton.* Springer US; 2009: 353-382.
51. Zhou XR, Horne I, Damcevski K, Haritos V, Green A, Singh S: Isolation and functional characterization of two independently‐evolved fatty acid Δ12‐desaturase genes from insects. *Insect molecular biology* 2008, 17(6):667-676.
52. Green AG, Singh SP, Chen Y, Dribnenki J: Flax. *Compendium of Transgenic Crop Plants* 2008.
53. Chen Y, Singh S, Rashid K, Dribnenki P, Green A: Pyramiding of alleles with different rust resistance specificities in Linum usitatissimum L. *Molecular Breeding* 2008, 21(4):419-430.
54. Zhou X-R, Robert SS, Petrie JR, Frampton DM, Mansour MP, Blackburn SI, Nichols PD, Green AG, Singh SP: Isolation and characterization of genes from the marine microalga Pavlova salina encoding three front-end desaturases involved in docosahexaenoic acid biosynthesis. *Phytochemistry* 2007, 68(6):785-796.
55. Zhou X-R, Singh S, Liu Q, Green A: Combined transgenic expression of Δ12-desaturase and Δ12-epoxygenase in high linoleic acid seeds leads to increased accumulation of vernolic acid. *Funct Plant Biol* 2006, 33(6):585-592.
56. Zhou X-R, Robert S, Singh S, Green A: Heterologous production of GLA and SDA by expression of an *Echium plantagineum* Δ6-desaturase gene. *Plant Science* 2006, 170(3):665-673.
57. Zhou X, Singh S, Green A: Engineering oilseeds to produce unusual fatty acids. *Lipid Technology* 2006, 18(9):199.
58. Pandian A, Hurlstone C, Liu Q, Singh S, Salisbury P, Green A: Agrobacterium-mediated transformation protocol to overcome necrosis in elite AustralianBrassica juncea lines. *Plant Molecular Biology Reporter* 2006, 24(1):103-103.
59. Wang M-B, Wu L, Smith N, Helliwell C, Wesley V, Wu R, Bender J, Liu Q, Singh S, Green A: RNA silencing in plants: mechanisms and applications. *Shigen Seibutsu Kagaku Shinpojiumu* 2005, 22:50-57.
60. Singh SP, Zhou X-R, Liu Q, Stymne S, Green AG: Metabolic engineering of new fatty acids in plants. *Curr Opin Plant Biol* 2005, 8(2):197-203.
61. Robert SS, Singh SP, Zhou X-R, Petrie JR, Blackburn SI, Mansour PM, Nichols PD, Liu Q, Green AG: Metabolic engineering of Arabidopsis to produce nutritionally important DHA in seed oil. *Funct Plant Biol* 2005, 32(6):473-479.
62. Nichols P, Mansour P, Robert S, Frampton D, Blackburn S, Petrie J, Singh S, Green A: Alternate sources of long-chain omega-3 oils. *Asia Pac J Clin Nutr* 2005, 14(Suppl):S112.
63. Abeywardena M, Nichols P, Singh S: Future omega 3s. *The World of Food Ingredients* 2005, 2005:50-54.
64. Wielopolska A, Ellacott G, Singh S: Custom knock-outs with hairpin RNA-mediated gene silencing. In: *Plant Functional Genomics.* Humana Press; 2003: 273-286.
65. Liu Q, Hurlstone C, Singh S, Green A: Application of hpRNA-Mediated Gene Silencing Techniques to Modification of Fatty Acid Composition. In: *Advanced Research on Plant Lipids.* Springer Netherlands; 2003: 407-410.
66. Stoutjesdijk PA, Singh SP, Liu Q, Hurlstone CJ, Waterhouse PA, Green AG: hpRNA-mediated targeting of the Arabidopsis FAD2 gene gives highly efficient and stable silencing. *Plant Physiol* 2002, 129(4):1723-1731.
67. Liu Q, Singh SP, Green AG: High-stearic and high-oleic cottonseed oils produced by hairpin RNA-mediated post-transcriptional gene silencing. *Plant Physiol* 2002, 129(4):1732-1743.
68. Liu Q, Singh S, Green A: High-oleic and high-stearic cottonseed oils: nutritionally improved cooking oils developed using gene silencing. *J Am Coll Nutr* 2002, 21(sup3):205S-211S.
69. Wesley SV, Helliwell CA, Smith NA, Wang M, Rouse DT, Liu Q, Gooding PS, Singh SP, Abbott D, Stoutjesdijk PA: Construct design for efficient, effective and high‐throughput gene silencing in plants. *The Plant Journal* 2001, 27(6):581-590.
70. Singh S, Thomaeus S, Lee M, Stymne S, Green A: Transgenic expression of a Δ12-epoxygenase gene in Arabidopsis seeds inhibits accumulation of linoleic acid. *Planta* 2001, 212(5-6):872-879.
71. Liu Q, Brubaker CL, Green AG, Marshall DR, Sharp PJ, Singh SP: Evolution of the FAD2-1 fatty acid desaturase 5′ UTR intron and the molecular systematics of Gossypium (Malvaceae). *Am J Bot* 2001, 88(1):92-102.
72. Stoutjesdijk P, Hurlestone C, Singh S, Green A: Colloquium: Biotechnological Aspects: Fatty Acids-High-oleic acid Australian Brassica napus and B. juncea varieties produced by co-suppression of endogenous D12-desaturases. *Biochem Soc T* 2000, 28(6):938-939.
73. Smith NA, Singh SP, Wang M-B, Stoutjesdijk PA, Green AG, Waterhouse PM: Gene expression: total silencing by intron-spliced hairpin RNAs. *Nature* 2000, 407(6802):319-320.
74. Singh S, Thomaeus S, Lee M, Green A, Stymne S: Colloquium: Biotechnological Aspects: Fatty Acids-Inhibition of polyunsaturated fatty acid accumulation in plants expressing a fatty acid epoxygenase. *Biochem Soc T* 2000, 28(6):940-942.
75. Singh S, Green A, Stoutjesdijk P, Liu Q: Inverted-repeat DNA: a new gene-silencing tool for seed lipid modification. *Biochem Soc T* 2000, 28(6):925-927.
76. Liu Q, Singh S, Green A: Genetic modification of cotton seed oil using inverted-repeat gene-silencing techniques. *Biochem Soc T* 2000, 28(6):927.
77. Gummeson PO, Lenman M, Lee M, Singh S, Stymne S: Characterisation of acyl-ACP desaturases from *Macadamia integrifolia* and *Nerium oleander L*. *Plant Science* 2000, 154(1):53-60.
78. Liu Q, Singh SP, Brubaker CL, Sharp PJ, Green AG, Marshall D: Molecular cloning and expression of a cDNA encoding a microsomal w-6 fatty acid desaturase from cotton (Gossypium hirsutum). *Funct Plant Biol* 1999, 26(2):101-106.
79. Liu Q, Singh S, Brubaker C, Green A: Cloning and sequence analysis of a novel member (accession No. Y10112) of the microsomal ω-6 fatty acid desaturase family from cotton (Gossypium hirsutum). *Plant Physiol* 1999, 120:339.
80. Lee M, Lenman M, Banaś A, Bafor M, Singh S, Schweizer M, Nilsson R, Liljenberg C, Dahlqvist A, Gummeson P-O: Identification of non-heme diiron proteins that catalyze triple bond and epoxy group formation. *Science* 1998, 280(5365):915-918.
81. Liu Q, Singh S, Sharp P, Green A, Marshall D: Nucleotide sequence of a cDNA from Gossypium hirsutum encoding a stearoyl-acyl carrier protein desaturase. *Plant Physiol* 1996, 110:1436.
82. Teale B, Singh S, Cohen D, Lavin MF: The activation of a specific DNA binding protein by neutron irradiation. *International Journal of Radiation Oncology\* Biology\* Physics* 1995, 33(1):129-133.
83. Singh S, Van der Heide T, McKinney S, Green A: Nucleotide sequence of a cDNA (Accession No. X91139) from Brassica juncea encoding a microsomal omega-6 desaturase. *Plant Physiol* 1995, 109:1498.
84. Singh S, McKinney S, Green A: Sequence of a cDNA from Linum usitatissimum encoding the stearoyl-acyl carrier protein desaturase. *Plant Physiol* 1994, 104(3):1075.
85. Teale B, Khanna K, Singh S, Lavin M: Radiation-activated DNA-binding protein constitutively present in ataxia telangiectasia nuclei. *J Biol Chem* 1993, 268(30):22450-22455.
86. Teale B, Singh S, Khanna K, Findik D, Lavin M: Purification and characterization of a DNA-binding protein activated by ionizing radiation. *J Biol Chem* 1992, 267(15):10295-10301.
87. Houldsworth J, Cohen D, Singh S, Lavin MF: The response of ataxia-telangiectasia lymphoblastoid cells to neutron irradiation. *Radiation research* 1991, 125(3):277-282.
88. Hobson K, Singh SP, Lavin MF: Use of DNA-protein interaction to isolate specific genomic DNA sequences. *Analytical biochemistry* 1991, 193(2):220-224.
89. Singh SP, Lavin MF: DNA-binding protein activated by gamma radiation in human cells. *Molecular and cellular biology* 1990, 10(10):5279-5285.
90. Singh SP, Cohen D, Dytlewski N, Houldsworth J, Lavin MF: Neutron and γ-Irradiation of Bacteriophage M13 DNA: Use of Standard Neutron Irradiation Facility (SNIF). *Journal of radiation research* 1990, 31(4):340-353.
91. Singh SP, Lavin MF: Study of DNA topoisomerase II in ataxia—telangiectasia cells. *Carcinogenesis* 1989, 10(7):1215-1218.
92. Mohamed R, Singh SP, Kumar S, Lavin MF: A defect in DNA topoisomerase II activity in ataxia-telangiectasia cells. *Biochemical and biophysical research communications* 1987, 149(1):233-238.
93. Brooks D, Means A, Wright E, Singh S, Tiver K: Isolation and use of cDNA clones to study the structure and regulation of androgen-dependent secretory proteins associated with sperm maturation in the epididymis. *New horizons in sperm cell research* 1987:55.
94. Singh SP, Paleg LG: Comparison of IAA-induced and low temperature-induced GA3 responsiveness and α-amylase production by GA3 insensitive dwarf wheat aleurone. *Plant Physiol* 1986, 82(3):685-687.
95. Singh SP, Paleg LG: A Possible Role for Indoleacetic Acid, Low Temperature, and Phospholipid Metabolism in the Induction of GA3 Responsiveness in GA3 Insensitive (Rht3-Containing) Dwarf Wheat Aleurone. *Plant Physiol* 1986, 82(3):688-694.
96. Singh S, Paleg L: Low-Temperature-Induced GA3 Sensitivity of Wheat. VI. Effect of Inhibitors of Lipid Biosynthesis on α-Amylase Production by Dwarf (Rht3) and Tall (Rht) Wheat, and on Lipid Metabolism of Tall Wheat Aleurone Tissue. *Funct Plant Biol* 1986, 13(3):409-416.
97. Gore PJ, Singh SP, Brooks DE: Composition of gangliosides from ovine testis and spermatozoa. *Biochimica et Biophysica Acta (BBA)-Lipids and Lipid Metabolism* 1986, 876(1):36-47.
98. Brooks DE, Means AR, Wright EJ, Singh SP, Tiver KK: Molecular cloning of the cDNA for androgen‐dependent sperm‐coating glycoproteins secreted by the rat epididymis. *European Journal of Biochemistry* 1986, 161(1):13-18.
99. Brooks D, Means A, Wright E, Singh S, Tiver K: Molecular cloning of the cDNA for two major androgen-dependent secretory proteins of 18.5 kilodaltons synthesized by the rat epididymis. *J Biol Chem* 1986, 261(11):4956-4961.
100. Singh S, Paleg L: Low-Temperature-Induced GA3 Sensitivity of Wheat. III. Comparison of Low Temperature Effects on α-Amylase Production by Aleurone Tissue of Dwarf and Tall Wheat. *Funct Plant Biol* 1985, 12(3):269-275.
101. Singh S, Paleg L: Low temperature-induced GA3 sensitivity of wheat. IV. Comparison of low temperature effects on the phospholipids of aleurone tissue of dwarf and tall wheat. *Funct Plant Biol* 1985, 12(3):277-289.
102. Singh S, Firn R, Paleg L: Low-temperature-induced GA3 sensitivity of wheat. V. Sterol conversions in the wheat aleurone tissue during imbibition. *Funct Plant Biol* 1985, 12(5):549-555.
103. Singh SP, Paleg LG: Low Temperature-Induced GA3 Sensitivity of Wheat II. Changes in Lipids Associated with the Low Temperature-Induced GA3 Sensisivity of Isolated Aleurone of Kite. *Plant Physiol* 1984, 76(1):143-147.
104. Singh SP, Paleg LG: Low temperature-induced GA3 sensitivity of wheat I. Characterization of the low temperature effect on isolated aleurone of Kite. *Plant Physiol* 1984, 76(1):139-142.
105. Singh SP, Paleg LG: Low temperature induction of hormonal sensitivity in genotypically gibberellic acid-insensitive aleurone tissue. *Plant Physiol* 1984, 74(2):437-438.

**Issued Patents**

1) DNA sequences capable of directing expression of non-native genes in flax seeds as well as the seeds of other plants, US 6777591 B1

2) Plant fatty acid epoxygenase genes and uses therefor
CA 2286895 C, US 6329518 B1

3) Altering the fatty acid composition of rice
US 8530724 B2

4) Modified cottonseed oil
US 7619105B2, US 6974898 B2, EP 1282709

5) Synthesis of long-chain polyunsaturated fatty acids by recombinant cells
US 8288572 B2, US 7834250 B2

7) Synthesis of fatty acids
US 8816106 B2, PCT/AU2007/001242

8) Enzymes and methods for producing omega-3 fatty acids
US 8809559 B2, PCT/AU2009/0014

9) Synthesis of long-chain polyunsaturated fatty acids by recombinant cells
US 8106226 B2, US 8158392 B1, US 8535917 B2, US 8575377 B2, US 8778644 B2,

US 8778644 B2, US 8853432 B2

10) Lipid comprising polyunsaturated fatty acids
US 8816111 B2

11) Methods of producing lipids.

US2011314725-A1; WO2012000026-A.