

## Curriculum Vitae

**Name** Sadequr Rahman,  
**Email** sadequr.rahman@monash.edu;  
[rahman\\_sadequr@hotmail.com](mailto:rahman_sadequr@hotmail.com)  
**Phone** 60-3-5514-6083  
**Mobile** 60102-562-790  
**Fax** 60-3-5514-6364  
**Nationality** Dual : Australian/Bangladeshi

### Education

1979 University of Cambridge, UK. BA in Natural Sciences (Tripos).  
1983 University of London, UK. Ph.D. in Biochemistry.

### Employment

1983-85 MRC Post-doctoral fellow, Univ of Toronto, Canada  
1986-88 Asst Prof, Univ of Dhaka, Bangladesh  
1988-2011 Res Scientist, Senior Research Scientist and Principal Research Scientist, CSIRO Plant Industry, Australia  
2011- Professor of Plant Genetics, Monash University Malaysia

### Research Interests

Applications of molecular biology, genetics and genomics for food security and environmental health. Research interests span a range of organisms, from bacteria to plants and animals.

## **Patents**

10 patents on various aspects of altering starch and lipids in cereal grains.

## **Prizes awarded**

Co-recipient of CSIRO 2010 Research Achievement Medal for work on a novel barley mutant.

## **Fellowships in last three years**

2015 Japan Society for the Promotion of Science Senior Fellowship for three months at Osaka Kyoiku University with Prof Y Mukai and Prof G Suzuki

## **Grants obtained three years**

2013-2015 MOSTI Science Grant. Identification of markers for low GI rices.

2013-2015 FRGS Grant. Small RNAs in rice.

2016—Monash Major grant on mosquitoes (co-recipient).

2017—Monash Major grant on microbiomes (co-recipient)

## **HDR Students currently supervised**

Rice genetics and genomics –Ishrat Jabeen, Kanagesswary Muniandy

Bacterial genetics and genomics— Chrystine Tan, Vani Juliyanti

Avian genetics and genomics— Farheena Iqbal, Farooq Al-Ajli

## REFEREED PUBLICATIONS LIST (2018)

**S.RAHMAN.**

**Total citations over 5000.**

**H-index 43 (Google Scholar)**

ResearcherID: J-8521-2013

ORCID 0000-0002-0109-5895

1. Rahman, S., Shewry, P.R. and Mifflin, B.J. 1982. Differential protein accumulation during barley grain development. *J.Exp.Bot.* 33, 717-728.
2. Kreis, M., Rahman, S., Forde, B.G., Shewry, P.R. and Mifflin, B.J. 1983. Sub-families of hordein mRNA encoded at the Hor-2 locus of barley. *Mol.Gen.Genet.* 191, 194-200.
3. Kreis, M., Shewry, P.R., Forde, B.G., Rahman, S. and Mifflin, B.J. 1983. Molecular analysis of a mutation conferring the high-lysine phenotype in developing grain of barley. *Cell* 34, 161-167.
4. Rahman, S., Kreis, M., Forde, B.G., Shewry, P.R. and Mifflin, B.J. 1983. Nutritional control of storage protein synthesis in developing grain of barley. *Planta* 159, 366-372.
5. Kreis, M., Shewry, P.R., Forde, B.G., Rahman, S., Bahramian, M.B. and Mifflin, B.J. 1984. Molecular analysis of the effects of the lys 3a gene on the expression of Hor loci in developing endosperms of barley (*Hordeum vulgare* L.) *Biochem. Genet.* 22, 231-255.
6. Mifflin, B.J., Forde, B.G., Kreis, M., Rahman, S., Forde, J., and Shewry P.R. Molecular biology of the grain storage proteins of *Triticeae*. 1984. *Phil. Trans. R. Soc. B.* 304, 333-339.
7. Rahman, S., Kreis, M., Forde, B.G., Shewry, P.R. and Mifflin, B.J. 1984. Hordein expression during development of the barley (*Hordeum vulgare*) endosperm. *Biochem. J.* 223, 315-322.
8. Shewry, P.R., Forde, B.G., Kreis, M., Rahman, S. and Mifflin, B.J. 1984. The structure and expression of barley storage protein genes. *Kulturpflanze* 32, 61-70
9. Kreis, M., Shewry, P.R., Forde, B.G., Rahman, S., and Mifflin, B.J. 1985.

- Molecular evolution of the seed storage proteins of barley, rye and wheat. *J. Mol. Biol.* 183, 499-502.
10. Grzelczak, Z., Rahman, S., Kennedy, T.D. and Lane B.G. 1985. Compartmentation of germin, its translatable mRNA and its biosynthesis among the roots, stems and leaves of wheat seedlings. *Can. J. Biochem.* 63, 317-327
  11. Rahman, S., Grzelczak, Z., Kennedy, T.D. and Lane B.G. 1988. Germin. Molecular cloning of cDNA that selects germin from bulk wheat mRNA. *Biochem. Cell. Biol.* (formerly *Can. J. Biochem.*). 66, 100-106.
  12. Gomez, P.F. and Rahman, S. 1989. Inhibition of protein breakdown during germination of rice seedlings under saline conditions. *The Dhaka University Studies, Part E*, 4, 153-155.
  13. Dratewka-Kos, E., Rahman, S., Grzelczak, Z.F., Kennedy, T.D., Murray, R.K. and Lane B.G. 1989. Polypeptide structure of germin as deduced from cDNA sequencing. *J. Biol. Chem.* 264, 4896-5000.
  14. Monsur, K.A., Begum, Y.A., Ahmed, Z.U. and Rahman, S. 1989. Evidence of multiple infections in cases of diarrhoea due to enterotoxigenic *Escherichia coli*. *J. Infect. Dis* 159, 144-145.
  15. Jolly, C.J., Rahman, S., Kortt, A.A. and Higgins, T.J.V. 1993. Characterisation of the wheat Mr 15000 'grain softness protein' and analysis of the relationship between its accumulation in the whole seed and grain softness. *Theoret. Appl. Genet.* 86: 589-597
  16. Rahman, S., Jolly, C.J., Skerritt, J.H. and Walloschek, A. 1994. Cloning of a wheat 15-kDa grain softness protein (GSP): GSP is a mixture of puroindoline-like polypeptides. *Eur. J. Biochem.* 223: 917-925
  17. Morell, M.K., Rahman, S., Abrahams, S.L. and Appels, R. 1995. The biochemistry and molecular biology of starch synthesis in cereals. *Aust. J. Plant Physiol.* 22: 647-660
  18. Rahman, S., Kosar-Hashemi, B., Samuel, M.S., Hill, A., Abbott, D.C., Skerritt, J.H., Preiss, J., Appels, R. and Morell, M.K. 1995. The major proteins of wheat endosperm starch granules. *Aust. J. of Plant Physiol.* 22: 793-803
  19. Jolly, C.J., Glenn, G.M. and Rahman, S. 1996. GSP-1 genes are linked to the grain hardness locus (Ha) on wheat chromosome 5D. *Proc. Natl. Acad. Sci. USA.* 93, 2408-2413
  20. Rahman, S., Abrahams, S., Abbott, D., Mukai, Y., Samuel, M., Morell, M. and Appels, R. 1997. A complex arrangement of genes at a starch

- branching enzyme I locus in the D-genome donor of wheat. *Genome* 40: 465-474
21. Graybosch, R.A., Peterson, C.J., Hansen, L.E., Rahman, S., Hill, A. and Skerritt, J.H. 1998. Identification and characterization of U.S. wheats carrying null alleles at the *wx* loci. *Cereal Chemistry* 75: 162-165.
  22. Rahman, S., Li, Z., Abrahams, S., Abbott, D., Appels, R. and Morell, M.K. 1999. Characterisation of a gene encoding wheat endosperm starch branching enzyme-I. *Theoret Appl Genet* 98,156-163
  23. Li, Z., Rahman, S., Appels, R. and Morell, M. 1999. Cloning and characterization of a gene encoding wheat soluble starch synthase. *Theoret Appl Genet* 98, 1208-1216.
  24. Li, Z., Chu, X., Mouille, G., Yan, L., Kosar-Hashemi, B., Hey, S., Napier, J., Shewry, P., Clarke, B., Appels, R., Morell, M. and Rahman, S. 1999. The localization, expression and role of the class II starch synthases of wheat *Plant Physiol.* 120, 1147-1156.
  25. Turner, M., Mukai, Y., Leroy, P., Charef, B., Appels, R. and Rahman, S. 1999. The *Ha* locus of wheat: identification of a polymorphic region for tracing grain hardness in crosses. *Genome.* 42, 1242-1250
  26. Turnbull, K.M., Gaborit, T., Marion, D. and Rahman, S. 2000. Variation in puroindoline polypeptides in Australian wheat cultivars in relation to grain hardness. *Aust. J. Plant. Physiol.* 27 (2), 153-158
  27. Rahman, S., Li, Z., Batey, I., Cochrane, M.P., Appels, R. and Morell, M. 2000. Genetic alteration of starch functionality in wheat. *J. Cereal Sci.* 31, 91-110
  28. Yan, L., Bhave, M., Fairclough, R., Konik, C., Rahman, S. and Appels, R. 2000. The genes encoding granule-bound starch synthase (GBSS) from the A, B and D progenitors of common wheat *Genome*, 43(2), 264-272
  29. Li Z., Mouille G., Kosar-Hashemi B., Rahman S., Clarke B., Appels R. and Morell M. 2000 The structure and expression of the wheat starch synthase III gene: motifs in the expressed gene define the lineage of the starch synthase III gene family. *Plant Physiology* 123, 613-624.
  30. Konik-Rose, CM, Moss, R., Rahman, S. Appels, R., Stoddard, F, McMaster G. (2001). Evaluation of the 40 mg swelling test for measuring starch functionality. *Starch-Starke*, 53, 14-20

31. Fukui KN, Suzuki G., Lagudah E., Rahman S., Appels R., Yamamoto M., Mukai Y. (2001). Physical arrangement of retrotransposon-related repeats in centromeric regions of wheat. *Plant Cell Physiol.* 42 (2) 189-196
32. Rahman S., Regina A., Li Z., Mukai Y., Yamamoto M., Kosar-Hashemi B, Abrahams S, Morell M. (2001). Comparison of starch branching enzymes genes reveals evolutionary relationships among isoforms: characterisation of a gene for starch branching enzymes IIa from the wheat D genome donor *Aegilops tauschii*. *Plant Physiol* 125, 1314-1324.
33. Osborne, B, Turnbull K, Anderssen B, Rahman S, Appels, R (2001). The hardness locus in Australian wheat lines. *Aust. J. Agric. Res.* 52(12), 1275-1286
34. Ahmed T.U., Islam M.M., Lisa L.A., Rahman S., Naved A.F. 2001. Observation of mosquito population in Dean-Stone tea estate, Srimangal, *Bangladesh. J. Med. Sci.* 7,30-34.
35. Morell, M., Rahman S, Regina, A, Rudi Appels and Zhongyi Li. (2001). Wheat starch biosynthesis. *Euphytica* 119: 55-58.
36. Turnbull, K-M, Rahman, S. (2002) Endosperm texture in wheat *J. Cereal Science.* 36, 327-337
37. Aoki, N., Whitfield, P., Hoeren F., Scofield, G., Newell, K., Patrick, J., Offler, C., Clarke, B., Rahman, S., Furbank, R.T. (2003) Three sucrose transporter genes are expressed in the developing grain of hexaploid wheat. *Plant Molecular Biology* 50, 453-462
38. Turnbull, KM, Marion D, Gaborit T, Appels, R, Rahman S. (2002). Early expression of grain hardness in the developing wheat endosperm. *Planta* 216, 699-706
39. Turnbull, K-M, Turner M, Mukai, Y, Yamamoto, M, Morell, MK, Appels, R, Rahman, S. (2003) The organisation of genes tightly linked to the Ha locus in *Aegilops Tauschii*, the D genome donor to wheat . *Genome* 46, 330-338
40. Rahman, S, Nakamura, Y , Li, Z, Clarke, B, Fujita, N, Mukai, Y, Yamamoto, M, Regina, A , Tan, Z, Kawasaki, S, Morell, M . (2003). The sugary-type isoamylase gene from rice and *Aegilops tauschii*: characterisation and comparison with maize and *Arabidopsis*. *Genome* 46, 496-506

41. Morell, M, Kosar-Hashemi, B, Samuel, M, Chandler, P, Rahman, S, Buelon, A, Batey, I, Li, Z. (2003) Identification of the molecular basis of mutations at the barley *sex6* locus and their novel starch phenotype. *Plant Journal* 34, 172-184.
42. Suzuki, G, Moriyama, M, Fujioka, K, Yamamoto, M, Subramanyam, NC, Li, Z, Appels, R, Morell, M, Mukai, Y, Rahman, S. (2003) The starch branching enzyme I locus from *Aegilops tauschii*, the donor of the D genome to wheat. *Functional and Integrative Genomics* 3, 69-75.
43. Li, Z., Sun, F, Xu, S, Chu, X, Mukai, Y, Yamamoto, M, Ali, S, Rampling, L, Kosar-Hashemi, B, Rahman, S, Morell, MK (2003). The structural organisation of the genes encoding class II starch synthase of wheat and barley and the evolution of the genes encoding starch synthases in plants. *Functional and Integrative Genomics* 3, 76-85.
44. Morell, M, Regina, A, Li, Z, Kosar-Hashemi, B, Rahman, S. (2003). Advances in the understanding of starch synthesis in wheat and barley. *J. Appl. Glycoscience* . 50, 260-265.
45. Harun RM, Seheli K, White R, Nessa M, Rahman S, Naved AF (2003). Diversity of starch granules from different plant sources in Bangladesh. *Dhaka Univ. J. Biol. Sci.* 12(2). 101-105.
46. Harun RM, Seheli K, Naved AF, Larroque O, Konik C, Gianibelli C, Rahman S (2003). Biodiversity of starch structure among food sources in Bangladesh. *Dhaka Univ J. Biol Sci.* 12 (3), 87-92.
47. Johal, J., Gianibelli, M.C., Rahman, S., Morell, M.K., and Gale, K. R (2004). Characterisation of low molecular weight glutenin genes in *Aegilops tauschii*. *Theoret. Appl. Genet.* 109, 1028-1040.
48. Regina, A., Kosar-Hashemi, B., Li, Z., Rampling, L.R., Cmiel, M. Gianibelli, C., Konik-Rose, C., Larroque, O., Rahman, S. and Morell, M.K (2004) Multiple isoforms of starch branching enzyme 1 in wheat: lack of the major SBE 1 isoforms does not alter starch phenotype. *Functional Plant Biology* 31, 591-601
49. Morell M.K., Konik-Rose, C., Regina, A., Li Z., and Rahman S. Synthesis of resistant starches in plants. *J. AOACI.* 87, 740-748.
50. Li, Z., Huang, B., Rampling, L., Wang, J., Yu, J., Morell, M. and Rahman, S. (2005) The structure of the wheat group 7 (short arm) determined using rice genome chromosome with special reference to genes involved in starch biosynthesis. *Functional and Integrative Genomics.* 4, 231-240

51. Kubo, A., Rahman S., Li Z, Mukai Y, Yamamoto M, Utsumi Y, Ugaki M, Harada K, Satoh H, Morell M, and Nakamura Y (2005). Isoamylase is Essential for Amylopectin Biosynthesis in Plants: Complementation of *sugary-1* Phenotype in Rice Endosperm with the Wheat *Isoamylase 1* Gene. *Plant Physiology* 137: 43-56;
52. Nakano A, Suzuki G, Yamamoto M, Turnbull K, Rahman S and Mukai Y. (2005). Rearrangements of large-insert T-DNA in transgenic rice. *Mol. Genet. Genom.* 273 (2): 123-129
53. Chantret, N, Salse J, Sabot F, Rahman S, Bellec A, Laubin B, Ivan Dubois I, Dossat C, Sourdille P, Joudrier P, Gautier MF, Cattolico L, Beckert M, Sébastien Aubourg S, Weissenbach J, Caboche M, Bernard M, Leroy P, and Chalhou B, Polyploidy-related evolution mechanisms at the *Hardness (Ha)* locus of wheat species (*Triticum* and *Aegilops*) (2005) *Plant Cell* 17, 1033-1045.
54. Howitt CA, Rahman S, Morell MK. (2005) Expression of bacterial starch-binding domains in *Arabidopsis* increases starch granule size. *Functional Plant Biology* 33, 257-266.
55. Clarke B and Rahman S. (2005). Microarray analysis of grain hardness. *Theoret. Appl. Genet.* 110 (7): 1259-1267
56. Regina A, Kosar-Hashemi B, Li, Z, Pedler A, Mukai Y, Yamamoto M, Gale K, Sharp P, Morell M, Rahman S. (2005) Starch branching enzyme IIb in wheat is expressed at low levels in the endosperm compared to other cereals and encoded at a non-syntenic locus. *Planta* 222, 899-909.
57. Kosar-Hashemi, B, Irwin JA, Higgins J, Rahman S, Morell MK. (2006). Isolation, identification and characterisation of starch-interacting proteins by 2-D affinity electrophoresis. *Electrophoresis* 27(9), 1832-1839.
58. Bresolin Ns, Li Z, Kosar-Hashemi B, Tetlow IJ, Chatterjee M, Rahman S, Morell MK, Howitt CA. (2006) Characterisation of disproportionating enzyme from wheat endosperm. *Planta* 224(1), 20-31.
59. Regina A, Bird A, Topping D, Bowden S, Freeman J, Barsby T, Kosar-Hashemi B, Li ZY, Rahman S, Morell M. (2006). High-amylose wheat generated by RNA interference improves indices of large-bowel health in rats. *Proc. Natl. Acad. Sci. USA.* 103 (10), 3546-3551.
60. Morell MK, Li ZY, Regina A, Rahman S, D' Hulst C, Ball SG (2006). Control of starch biosynthesis in vascular plants and algae. *Annual Plant Reviews* 22, 258-289



61. Kosar-Hashemi, B, Ikea J, Yamamori, M, Li, Z, Morell, M, Rahman, S (2007) Multiple effects of the SGP-1 mutation in developing wheat endosperm. *Functional Plant Biology* 34, 431-438
62. Rahman S, Bird A, Regina A, Li Z, Ral JP, McMaugh S, Topping D and Morell M. (2007) Resistant starch in cereals. *J. Cer. Sci.* 46(3),251-260
63. Rahman S, Morell M, Topping D, Bird A, Li Z, Dennis E, Peacock WJ. (2007). Low glycemic response cereals for human health. *International Diabetes Monitor*, 19, 21-25.
64. Konik-Rose CM, Thistleton J, Chanvier H, Tan I, Halley P, Gidley M, Kosar-Hashemi B, Wang H, Larroque O, Ikea J, McMaugh S, Regina A, Rahman S, Morell M, Li Z. (2007) Dosage effect of SGP-1 mutant. *Theor. Appl. Genet* 115, 1053-1065.
65. Konik-Rose CM, Stoddard F, Moss R, Rahman S, Appels R (2009). Starch characterisation and variability in GBSS loci of synthetic hexaploid wheats and their durum and *Aegilops tauschii* parents. *Euphytica* 167:203-216
66. Igrejas, G, Juhasz, A, Gale KR, Gianibelli MC, Rahman S.(2010) Low molecular weight glutenins in durum wheat: analysis of *Glu-A3* alleles using PCR markers. *Plant Breeding* 129: 574-577
67. Regina A, Li Z, Rahman S, Morell M.(2010). Control of starch branching in barley defined through differential RNAi suppression of starch branching enzyme IIa and IIb. *J Exp Bot* 61: 1469-1482
68. Pritchard J, Lawrence G, Larroque O, Li Z, Laidlaw H, Morell M, Rahman S (2011). A survey of beta glucan and arabinoxylan content in wheat. *J. Sci. Food and Agric.* 91: 1298-1303
69. Suzuki, G ; Wada, H ; Goto, H ; Nakano, A; Oba, H; Deno, T ; Rahman, S; Mukai, Y (2011). Transgenic rice plants harboring the grain hardness-locus region of *Aegilops tauschii* . *Plant Cell Reports* 30,2293-2301
70. Butardo, VM ,Fitzgerald, MA ; Bird, AR; Gidley, MJ; Flanagan, BM ; Larroque, O; Resurreccion, AP; Laidlaw, HKC Jobling, SA, Morell, M; Rahman, S (2011). Impact of down-regulation of starch branching enzyme IIb in rice by artificial microRNA- and hairpin RNA-mediated RNA silencing). *J Exp Bot* 62, 4927-4941
71. Fitzgerald MA, Rahman S, Resurreccion AP , Concepcion J, Daygon VD, Dipti SS, Kabir, KA, Klingner B, Morell MK, Bird, AR (2011) Identification of a major genetic determinant of glycaemic index in rice. *Rice* 4, 66-74

72. Butardo VM, Daygon DV, Colgrave ML, Campbell P, Resurreccion AP, Cuevas RP, Jobling SA, Tetlow I, Rahman S, Morell M, Fitzgerald M (2012). Biomolecular analyses of starch and starch granule proteins in the high-amylose rice mutant Goami 2. *J. Agric. Food Chem.*60, 11576-11585.
73. Higgins J, Kosar-Hashemi B, Li Z, Howitt C, Larroque O, Flanagan B, Morell M, Rahman S.(2013) Characterisation of phosphorylase in barley. *J Sci Food Agric.* 93: 2137–2145
74. Zaplin E, Liu Q, Li Z, Blanchard C, Rahman S. (2013). Alteration of rice oil composition through targeting FAD2 gene. *Functional plant biology* 40, 996-1005.
75. Fasahat, P., Rahman S, Wickneswari, R. (2014). Molecular determinants of starch synthesis in rice and wheat. *J.Genetics.* 93, 279-292.
76. Fujiwara M., Suzuki G, Kudo D, Oba H, Wada Y, Wada H, Wada N, Rahman S, Fukui K and Mukai Y (2014). Localization of transgene-derived friabilins in rice endosperm cells. *Plant Biotechnology* 31,67-70
77. Tiwari G., Aumeeruddy A, Rahman S (2014). Improving the economic value of rice bran oil. *Malaysian Journal of Applied Biology* 43 (2),1-8..
78. Regina A, Rahman S, Li Z, Morell M. Starch. In Encyclopedia of Food Grains. (Elsevier, in press). Eds Corke, Faubion, Seetharam, Wrigley.
79. Wilson R Sarim D, Rahman S.(2015) Factors influencing the distribution of the invasive house crow (*Corvus splendens*) in rural and urban landscapes. *Urban Ecosystems* 18, 1389-1400
80. Daniel, D., Lee SM, Dykes D, Rahman S (2015). The public health risks of multiple-drug resistant (MDR) *Enterococcus* spp. in Southeast Asia. *Applied and Environmental Microbiology* 81,6090-6097.
81. Muniandy K, Al-Ajli FO, Ng XY, Mohd Yazid MH, Tiwari GJ, Rahman S (2015) Genes involved in the biosynthesis of grain components in wheat and rice: characterization using molecular and cytogenetic techniques. *Nucleus* 58,185-190.
82. Krzeminska U, , Wilson R, Rahman S , Song BK, Gan HM, Tan MH, Austin CM (2016). The complete mitochondrial genome of the invasive house crow *Corvus splendens* (Passeriformes: Corvidae). *Mitochondrial DNA* 27(2) 974-975
83. Krzeminska U, , Wilson R, Rahman S , Song BK, Seneviratne, S, Gan HM, Austin CM (2016) Mitochondrial genomes of the jungle crow *Corvus macrorhynchos* (Passeriformes: Corvidae) from shed feathers

and a phylogenetic analysis of genus *Corvus* using mitochondrial protein genes. *Mitochondrial DNA* 27(4),2668-2670

84. Tan, S.F., Rahman S, Dykes, G.(2016). Pectin and Xyloglucan influence attachment of *Salmonella enterica* and *Listeria monocytogenes* to bacterial cellulose derived plant cell wall models. *Applied and Environmental Microbiology* 82(2), 680-688.
85. Tan SF, Rahman S, Dykes (2016). Relationship between cell concentration and salmonella attachment to plant cell walls. *Food Control* 67, 119-126
86. Ng XY, Tiwari GJ, Rahman (2016). Identification and Expression Analysis of Putative SDP 1 Homologue in Rice (*Oryza sativa* L. subsp. Indonesia Black and BD 192). *Acta Biologica Malaysiana* 4 (2), 51-58
87. Krzeminska U, Wilson R, Song BK, Seneviratne S, Akhteruzzaman S, Gruszczynska J, Swiderek W, Huy TS, Austin CM, Rahman S (2016). Genetic diversity of native and introduced populations of the invasive house crow (*Corvus splendens*) in Asia and Africa. *Biological Invasions* 18, 1867-1881
89. Tiwari GJ, Chiang MY, De Silva JR, Song BK, Lau YL, Rahman S (2016) Lipase genes expressed in rice bran: LOC Os11g43510 encodes a novel rice lipase, *J. Cer Sci* 71, 43-52.
90. Tan MSF, White AP, Rahman S, Dykes GA (2016). Role of fimbriae, flagella and cellulose on the attachment of *Salmonella typhimurium* ATCC 14028 to plant cell wall models. *PloS one* 11 (6), e0158311
91. Tiwari GJ, Liu Q, Shreshtha P, Li Z, Rahman S (2016). RNAi-mediated down-regulation of the expression of OsFAD2-1: effect on lipid accumulation and expression of lipid biosynthetic genes in the rice grain. *BMC Plant Biology* 16, 189-
92. Tan MSF, Moore SC, Tabor RF, Fegan N, Rahman S, Dykes GA (2016). Attachment of *Salmonella* strains to a plant cell wall model is modulated by surface characteristics and not by specific carbohydrate interactions. *BMC Microbiology* 16, 212
93. Tan MSF, Rahman S, Dykes GA (2016). Sonication Reduces the Attachment of *Salmonella typhimurium* ATCC 14028 Cells to Bacterial Cellulose-Based Plant Cell Wall Models and Cut Plant Material. *Food Microbiology* (in press).
94. Chow YY, Rahman S, Ting A (2017). Understanding colonization and proliferation potential of endophytes and pathogen in planta via plating, polymerase chain reaction and ergosterol assay. *Journal of Advanced Research* 8, 13-21.

95. Daniel DS, Lee SM, Gan HM, Dykes GA, Rahman S (2017) Genetic diversity of *Enterococcus faecalis* isolated from environmental, animal and clinical sources in Malaysia. *Journal of Infection and Public Health* 10,617-623
96. Omar Macha NB, Wilson, RF, The SH, Krzeminska U, Hassan SS, Song BK, Rahman S.(2017) Genetic diversity of chickens in Malaysia. *Malaysian Journal of Applied Biology* 46(2), 1-6.
97. Daniel DS, Gan HM, Lee SM, Dykes GA, Rahman S (2017). Draft genome sequences of six *Enterococcus faecalis* strains isolated from Malaysian clinical and environmental origins. *Genome Announc* 5:e00553-17. <https://doi.org/10.1128/genomeA.00553-17>.
98. Krzeminska U, Morales HE, Greening C, Nyari AS, Wilson R, Song BK, Austin CM, Rahman S (2018) Population mitogenomics provides insights into evolutionary history, invasion pathways and diversifying selection in the house crow (*Corvus splendens*). *Heredity* 120, 296-309.
99. Tan MH, Gan HM, Horner S, Rodriguez Moreno PA, Rahman S, Austin CM.(2018). More limbs on the tree: mitogenome characterisation and systematic position of 'living fossil' species *Neoglyphea inopinata* and *Laurentaeglyphea neocaledonica* (Decapoda : Glypheidea : Glypheidae) *Invertebrate systematics*. 32, 448-456
100. Muniandy K, Tan, MH, Song BK, Qasim A, Rahman, S (2018). Comparative sequence and genome analysis of chloroplast and amyloplast genomes from rice. *Plant Molecular Biology* (under review).