Name: Dr. Girish K. Sukumara Panicker

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Area of Research: Cover and management research (C factor) on horticultural crops for erosion prediction, nutrient management, and conservation planning; organic farming, carbon buildup on horticultural and switchgrass fields, technology to precipitate *struvite* in organic compost, fruit and nut based ago-forestry, and enhancing fruit quality by organic farming techniques.

Course/s Taught: Crop production, Soil Fertility, Soil management, and Advanced soil fertility

Appointment: Teaching graduate and undergraduate students (40%) and research on horticultural and agronomic crops (60%)

Publications: SELECTED PUBLICATIONS

Panicker, G.K., S.C. Tiwari, A.H. Al-Humadi, C.Sims, L.C. Huam, P. Igbokwe, O.P. Vadhwa, A. Johnson, J. Harness, G.A. Weesies, D.E. Stott, J. Bunch and T.E.Collins. C-factor research on horticultural crops for Erosion Prediction Models: Philosophy and Methodology of Data Collection. 2001. Book 42 pages. Published by Alcorn State University in collaboration with the USDA. https://www.worldcat.org/title/c-factor-research-on-horticultural-crops-for-erosion- prediction-philosophy-and-methodology-of-data-collection/oclc/51530885

Panicker, G.K., A.H. Al-Humadi, C.A. Sims, J.L. Silva and F.B. Matta. 2004. Animal and Forest Wastes on Muscadine Grapes (*Vitis rotundifolia*); Production and Water and Fruit Quality. *Acta Horticulturae.* Vol. 659. P.657-662.

Panicker, G.K., S.C. Tiwari, A.H. Al-Humadi, C.Sims, L.C. Huam, P. Igbokwe, O.P. Vadhwa, A. Johnson, J. Harness, G.A. Weesies, D.E. Stott, J. Bunch and T.E.Collins. 2004. Research on biomass development and residue decomposition of horticultural crops for erosion prediction models. *Acta Horticulturae*. Vol. 638. p.53-58.

Weiss, C.A., Jr., D. Ringelberg, P. Malone, and **G.K. Panicker.** 2006. Composting nitrogenous waste with magnesium to produce artificial guano. Presented at Orbit 2006, 5th International Conference on Biological Waste Management. Sept. 13-15, Weimar, Germany. p. 481-485.

Weiss, C.A., D. Ringelberg, O. Malone, and **G.K. Panicker**. 2007. Composting animal waste with magnesium: A novel method of stabilizing nitrogen and phosphorus. Proceedings of the Twenty-Second International Conference on Solid Waste Technology and Management, March 18-21, 2007. Philadelphia, PA. 18-21 March 2007. P.189-194.

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Panicker, G.K. and F.B. Matta. 2016. Effect of abscisic acid and paclobutrazol on cold hardiness of rabbiteye blueberry (*Vaccinium ashei* Reade). *Acta Horticulturae.* 1117. P. 315-320

G.K. Panicker, A. Nanjundaswamy1, J.L. Silva and F.B. Matta. 2017. Organic farming sytems increase anthocyanin and vitamin C content of rabbiteye blueberry (*Vaccinium ashei* Reade 'Tifblue') on a heavy soil. Acta Hortic. 1180. ISHS 2017. DOI 10.17660/ActaHortic. 2017.1180.65. p.467-471.

Nimmakayala P, Tomason Y, Abburi VL, Rodríguez A, Saminathan T, Vajja VG, Salazar G, **Panicker G**, Levi A, Wechter W, McCreight J, Korol A, Ronin Y, Garcia-Mas J, Reddy U. 2016. Genome-wide differentiation of various melon horticultural groups for use in GWAS for fruit firmness and construction of a high resolution genetic map. Frontiers in Plant Science 7 (1437). doi:10.3389/fpls.2016.01437

G.K. Panicker, A. Nanjundaswamy1, J.L. Silva and F.B. Matta. 2017. Organic farming systems with animal and forest waste to increase the quality of rabbiteye blueberry (*Vaccinium ashei* Reade 'Tifblue' Innovative Research for Organic Agriculture 3.0. Organic World Congress. doi:10.3220/REP1510907717000 urn:nbn:de:gbv:253-201711-dn059307-6

Sixto A. Marquez and **Girish K. Panicker.** 2017. Plant Density Effect of Organic Eggplant (*Solanum melongena* L) on Yield, Biomass Development and Soil Loss Prediction. Journal MAS Vol 62, No. 4. p. 379-391