

Faculty Details

Faculty Details

Name: Prof. AS Raghavendra (IoE-Chair Professor (SLS))

Mail: asrsluohyd.ernet.in

Contact: 04023134555

Area Of Research: Plant Molecular Physiology, Plant Biochemistry

Notice Board

No Records Available

Students And Project Trainees

Students/Projects Trainees

Name	Joined As	Mail	Contact
Dr. Sunil Babu	Research Associate	b.sunil@hotmail.com	9490755052
Dr. Sunitha Vaidya	SERB-NPDF	sunitavaidya@gmail.com	7093534860
Dr. Gurpreet Kaur Sidhu	Dr DS Kothari Post-doctoral fellow	gurpreet_sidhu28@yahoo.co.in	9660748454
Mr. Deepak Saini	PhD	sainideepak284@gmail.com	9666285527
Mr. Shashibhushan Gahir	PhD	shashigahir18@gmail.com	8908754842
Mr. P. Bharath	PhD	bharathsjgc@gmail.com	8500685242

Publications

253 Poonam Kulyal, Satyabrata Acharya†, Aditya B. Ankari†, Praveen K. Kokkiripati, Sarada D. Tetali, Agepati S. Raghavendra (2021) , Variable Secondary Metabolite Profiles Across Cultivars of *Curcuma longa* L. and *C. aromatica* Salisb. , *Frontiers in Pharmacology*, *Frontiers Media S.A.*, 12,659546, IF - 5.75.

252 Sunil, Bobba., Saini, Deepak., Bapatla, Ramesh B., Aswani, Vetcha., Raghavendra, Agepati S., (2019) , Photorespiration is complemented by cyclic electron flow and the alternative oxidase pathway to optimize photosynthesis and protect against abiotic stress , *Photosynthesis research*, Springer Netherlands, 139, 1-3, 67-79.

251 Aswani, Vetcha., Rajsheel, Pidakala., Bapatla, Ramesh B., Sunil, Bobba., Raghavendra, Agepati S., (2019) , Oxidative stress induced in chloroplasts or mitochondria promotes proline accumulation in leaves of pea (*Pisum sativum*): another example of chloroplast-mitochondria interactions , *Protoplasma*, Springer Vienna, 256, 2, 449-457.

250 Agurla, Srinivas., Gayatri, Gunja., Raghavendra, Agepati S., (2018) , Polyamines increase nitric oxide and reactive oxygen species in guard cells of *Arabidopsis thaliana* during

stomatal closure , Protoplasma, Springer Vienna,255,1,153-162.

249 Agurla, Srinivas., Gahir, Shashibhushan., Munemasa, Shintaro., Murata, Yoshiyuki., Raghavendra, Agepati S., (2018) , Mechanism of stomatal closure in plants exposed to drought and cold stress , Survival Strategies in Extreme Cold and Desiccation, Springer, Singapore,,215-232.

248 Raghavendra, Agepati S., Murata, Yoshiyuki., (2017) , Signal transduction in stomatal guard cells , Frontiers in plant science, Frontiers,8,,114.

247 Aloor, Bindu Prasuna., Avasthi, Uday Kiran., Raghavendra, Agepati S., (2017) , Stimulation by abscisic acid of the activity of phosphoenolpyruvate carboxylase in leaf disks of *Amaranthus hypochondriacus* L., C 4 plant: role of pH and protein levels , Protoplasma, Springer Vienna,254,5,1973-1981.

246 Agurla, Srinivas., Gayatri, Gunja., Raghavendra, Agepati S., (2017) , Signal transduction components in guard cells during stomatal closure by plant hormones and microbial elicitors , Mechanism of Plant Hormone Signaling under Stress, John Wiley & Sons, Inc. Hoboken, NJ, USA,2,,353-387.

245 Gayatri, Gunja., Agurla, Srinivas., Kuchitsu, Kazuyuki., Anil, Kondreddy., Podile, Appa R., Raghavendra, Agepati S., (2017) , Stomatal closure and rise in ROS/NO of Arabidopsis guard cells by tobacco microbial elicitors: Cryptogein and Harpin , Frontiers in plant science, Frontiers,8,,1096.

244 Sunil, Bobba., Raghavendra, Agepati S., (2017) , Measurement of Mitochondrial Respiration in Isolated Protoplasts: Cytochrome and Alternative Pathways , Plant Respiration and Internal Oxygen, Humana Press, New York, NY,,253-265.

243 Raghavendra, AS., Sunil, B., Bapatla, RB., (2017) , C3 Plants , , Academic Press,,.

242 Pulok K. Mukherjee, Ranjit K. Harwansh, Shiv Bahadur, Sayan Biswas, Lalitha N. Kuchibhatla, Sarada D. Tetali and A. S. Raghavendra (2016) , Metabolomics of Medicinal Plants - A Versatile Tool for Standardization of Herbal Products and Quality Evaluation of Ayurvedic Formulations , Current science, Indian Academy of Sciences,111,10,1624-1630 IF - 0.756.

241 Poonam Kulyal, Lalitha N. Kuchibhatla, K. Uma Maheshwari, K. Nirmal Babu, Sarada D. Tetali and Agepati S. Raghavendra (2016) , Highly sensitive HPLC method for estimation of total or individual curcuminoids in Curcuma cultivars and commercial turmeric powders. , current sciences, Indian academy of sciences,111,11,1816-1824 IF - 0.756.

240 Hodges, Michael., Deller, Younès., Keech, Olivier., Betti, Marco., Raghavendra, Agepati S., Sage, Rowan., Zhu, Xin-Guang., Allen, Doug K., Weber, Andreas PM., (2016) , Perspectives for a better understanding of the metabolic integration of photorespiration within a complex plant primary metabolism network , Journal of experimental botany, Oxford University Press UK,67,10,3015-3026.

239 Agurla, Srinivas., Gayatri, Gunja., Raghavendra, Agepati S., (2016) , Nitric oxide (NO) measurements in stomatal guard cells , Plant Nitric Oxide, Humana Press, New York, NY,,49-56.

238 Puli, Mallikarjuna Rao., Rajsheel, Pidakala., Aswani, Vetcha., Agurla, Srinivas., Kuchitsu, Kazuyuki., Raghavendra, Agepati S., (2016) , Stomatal closure induced by phytosphingosine-1-phosphate and sphingosine-1-phosphate depends on nitric oxide and pH of guard cells in *Pisum sativum* , Planta, Springer Berlin Heidelberg,244,4,831-841.

237 Agurla, Srinivas., Raghavendra, Agepati S., (2016) , Convergence and divergence of

signaling events in guard cells during stomatal closure by plant hormones or microbial elicitors , Frontiers in plant science, Frontiers,7,,1332.

236 Kulyal, Poonam., Kuchibhatla, Lalitha N., Maheshwari, K Uma., Babu, K Nirmal., Tetali, Sarada D., Raghavendra, Agepati S., (2016) , Highly sensitive HPLC method for estimation of total or individual curcuminoids in Curcuma cultivars and commercial turmeric powders , Current Science, Current Science Association,,,1816-1824.

235 Mukherjee, Pulok K., Harwansh, Ranjit K., Bahadur, Shiv., Biswas, Sayan., Kuchibhatla, Lalitha N., Tetali, Sarada D., Raghavendra, AS., (2016) , Metabolomics of medicinal plants—a versatile tool for standardization of herbal products and quality evaluation of Ayurvedic formulations , Current Science, Current Science Association,,,1624-1630.

234 Dinakar, Challabathula., Vishwakarma, Abhaypratap., Raghavendra, Agepati S., Padmasree, Kollipara., (2016) , Alternative oxidase pathway optimizes photosynthesis during osmotic and temperature stress by regulating cellular ROS, malate valve and antioxidative systems , Frontiers in plant science, Frontiers,7,,68.

233 Nellaepalli, Sreedhar., Kodru, Sireesha., Raghavendra, Agepati S., Subramanyam, Rajagopal., (2015) , Antimycin A sensitive pathway independent from PGR5 cyclic electron transfer triggers non-photochemical reduction of PQ pool and state transitions in Arabidopsis thaliana , Journal of Photochemistry and Photobiology B: Biology, Elsevier,146,,24-33.

232 Ravendra Babu, Kilaru., Nanda Kumar, Yellapu., Raghavendra, Aminedi., Phanindra, Venukadasula., Madhava, Golla., Ravi, Nuchu., Bhaskar, Matcha., Naga Raju, Chamarthi., (2015) , Design, Synthesis, In Silico and In Vitro Studies of Substituted 1, 2, 3, 4-Tetrahydro Pyrimidine Phosphorus Derivatives , Combinatorial chemistry & high throughput screening, Bentham Science Publishers,18,9,862-871.

231 Agurla, Srinivas., Gayatri, Gunja., Raghavendra, Agepati S., (2014) , Nitric oxide as a secondary messenger during stomatal closure as a part of plant immunity response against pathogens , Nitric Oxide, Academic Press,43,,89-96.

230 Kokkiripati, Praveen K., Kamsala, Ratnam V., Bashyam, Leena., Manthapuram, Nalini., Bitla, Prasanth., Peddada, Vidyadhari., Raghavendra, Agepati S., Tetali, Sarada D., (2013) , Stem-bark of Terminalia arjuna attenuates human monocytic (THP-1) and aortic endothelial cell activation , Journal of ethnopharmacology, Elsevier,146,2,456-464.

229 Voss, I., Sunil, B., Scheibe, R., Raghavendra, AS., (2013) , Emerging concept for the role of photorespiration as an important part of abiotic stress response , Plant biology, ,15,4,713-722.

228 Sunil, Bobba., Talla, Sai K., Aswani, Vetcha., Raghavendra, Agepati S., (2013) , Optimization of photosynthesis by multiple metabolic pathways involving interorganelle interactions: resource sharing and ROS maintenance as the bases , Photosynthesis research, Springer Netherlands,117,1-3,61-71.

227 Gayatri, Gunja., Agurla, Srinivas., Raghavendra, Agepati S., (2013) , Nitric oxide in guard cells as an important secondary messenger during stomatal closure , Frontiers in Plant Science, Frontiers,4,,425.

226 Puli, Mallikarjuna Rao., Raghavendra, Agepati S., (2012) , Pyrabactin, an ABA agonist, induced stomatal closure and changes in signalling components of guard cells in abaxial epidermis of Pisum sativum , Journal of experimental botany, Oxford University Press,63,3,1349-1356.

- 225 Hebbelmann, Inga., Selinski, Jennifer., Wehmeyer, Corinna., Goss, Tatjana., Voss, Ingo., Mulo, Paula., Kangasjärvi, Saijaliisa., Aro, Eva-Mari., Oelze, Marie-Luise., Dietz, Karl-Josef., (2012) , Multiple strategies to prevent oxidative stress in Arabidopsis plants lacking the malate valve enzyme NADP-malate dehydrogenase , Journal of experimental botany, Oxford University Press,63,3,1445-1459.
- 224 Raghavendra, AS., Sethuraj, MR., (2012) , Tree crop physiology , , Elsevier,,.
- 223 Raghavendra, Agepati S., Sunil, Bobba., (2012) , Molecular physiology of photosynthesis: carbon assimilation , Biological Sciences, ,.,.
- 222 Raghavendra, AS., (2012) , Importance of reactive oxygen species and nitric oxide during chitosan induced stomatal closure in Pisum sativum and Arabidopsis thaliana , , Hyderabad,,.
- 221 Reddy, Vidavaluru Sravani., Kumar, Yellapu Nanda., Raghavendra, Aminedi., Sowjanya, Gopal., Kumar, Suman., Ramyasree, Guggulla., Reddy, Gottiprolu Rajarami., (2012) , In silico model of DSF synthase RpfF protein from Xanthomonas oryzae pv. oryzae: a novel target for bacterial blight of rice disease , Bioinformation, Biomedical Informatics Publishing Group,8,11,504.
- 220 Rani, V Jhansi., Raghavendra, A., Kishore, P., Kumar, Y Nanda., Kumar, K Hema., Jagadeeswarareddy, K., (2012) , Synthesis and biological activity evaluation of cytidine-5'-deoxy-5-fluoro-N-[(alkoxy/aryloxy)] carbonyl-cyclic 2', 3'-carbonates , European journal of medicinal chemistry, Elsevier Masson,54,,690-696.
- 219 Raghavendra, Agepati S., Sage, Rowan F., (2011) , Chapter 3 Introduction , C4 photosynthesis and related CO2 concentrating mechanisms, Springer Netherlands,,.,17-25.
- 218 Talla, Saikrishna., Riazunnisa, Khateef., Padmavathi, Lolla., Sunil, Bobba., Rajsheel, Pidakala., Raghavendra, Agepati S., (2011) , Ascorbic acid is a key participant during the interactions between chloroplasts and mitochondria to optimize photosynthesis and protect against photoinhibition , Journal of biosciences, Springer-Verlag,36,1,163-173.
- 217 Kokkiripati, Praveen K., Bhakshu, Lepakshi Md., Marri, Swathi., Padmasree, K., Row, Anupama T., Raghavendra, Agepati S., Tetali, Sarada D., (2011) , Gum resin of Boswellia serrata inhibited human monocytic (THP-1) cell activation and platelet aggregation , Journal of ethnopharmacology, Elsevier,137,1,893-901.
- 216 Avasthi, Uday K., Izui, Katsura., Raghavendra, Agepati S., (2011) , Interplay of light and temperature during the in planta modulation of C4 phosphoenolpyruvate carboxylase from the leaves of Amaranthus hypochondriacus L.: diurnal and seasonal effects manifested at molecular levels , Journal of experimental botany, Oxford University Press,62,3,1017-1026.
- 215 Bhat, P Jayadeva., Bhattacharya, Mumbai Alok., Bowring, Fred., Brown, Adelaide Jeremy Paul., Burma, Göttingen Pradeep K., Burrows, Kaiping., Cárdenas, María Luz., Carlton, Marseilles Christopher., Rouge, Baton., Chakraborty, Supriya., (2011) , The Editorial Board wishes to place on record the valuable assistance rendered by the following scientists in reviewing manuscripts received for publication in the Journal of Biosciences. , J. Biosci.,36,5,1003-1005.
- 214 Raghavendra, AS., Reddy, AR., (2011) , VS Rama Das (1933–2010) , Current Science, Current Science Association,,.,798-799.
- 213 Raghavendra, Agepati S., Gonugunta, Vijay K., Christmann, Alexander., Grill, Erwin., (2010) , ABA perception and signalling , Trends in plant science, Elsevier Current

Trends,15,7,395-401.

- 212 Dinakar, Challabathula., Abhaypratap, Vishwakarma., Yearla, Srinivasa Rao., Raghavendra, Agepati S., Padmasree, Kollipara., (2010) , Importance of ROS and antioxidant system during the beneficial interactions of mitochondrial metabolism with photosynthetic carbon assimilation , *Planta*, Springer-Verlag,231,2,461.
- 211 Reddy, Attipalli R., Rasineni, Girish K., Raghavendra, Agepati S., (2010) , The impact of global elevated CO₂ concentration on photosynthesis and plant productivity , *Current Science*, Current Science Association,,,46-57.
- 210 Dinakar, Challabathula., Raghavendra, Agepati S., Padmasree, Kollipara., (2010) , Importance of AOX pathway in optimizing photosynthesis under high light stress: role of pyruvate and malate in activating AOX , *Physiologia Plantarum*, Blackwell Publishing Ltd Oxford, UK,139,1,13-26.
- 209 van Doorn, Wouter G., Woltering, Ernst J., (2010) , What about the role of autophagy in PCD? , *Trends in plant science*, Elsevier Ltd,15,7,361-362.
- 208 Raghavendra, Agepati S., Sage, Rowan F., (2010) , C₄ photosynthesis and related CO₂ concentrating mechanisms , , Springer Science & Business Media,,,,.
- 207 Strodtkötter, Inga., Padmasree, Kollipara., Dinakar, Challabathula., Speth, Birgit., Niazi, Pamela S., Wojtera, Joanna., Voss, Ingo., Do, Phuc Thi., Nunes-Nesi, Adriano., Fernie, Alisdair R., (2009) , Induction of the AOX1D isoform of alternative oxidase in *A. thaliana* T-DNA insertion lines lacking isoform AOX1A is insufficient to optimize photosynthesis when treated with antimycin A , *Molecular Plant*, Cell Press,2,2,284-297.
- 206 Srivastava, Nupur., Gonugunta, Vijay K., Puli, Mallikarjuna R., Raghavendra, Agepati S., (2009) , Nitric oxide production occurs downstream of reactive oxygen species in guard cells during stomatal closure induced by chitosan in abaxial epidermis of *Pisum sativum* , *Planta*, Springer-Verlag,229,4,757-765.
- 205 Gonugunta, Vijay K., Srivastava, Nupur., Raghavendra, Agepati S., (2009) , Cytosolic alkalization is a common and early messenger preceding the production of ROS and NO during stomatal closure by variable signals, including abscisic acid, methyl jasmonate and chitosan , *Plant signaling & behavior*, Taylor & Francis,4,6,561-564.
- 204 Gonugunta, Vijay K., Srivastava, Nupur., Puli, Mallikarjuna R., Raghavendra, Agepati S., (2008) , Nitric oxide production occurs after cytosolic alkalization during stomatal closure induced by abscisic acid , *Plant, Cell & Environment*, Blackwell Publishing Ltd Oxford, UK,31,11,1717-1724.
- 203 Ganjewala, Deepak., Boba, Sunil., Raghavendra, Agepati S., (2008) , Sodium nitroprusside affects the level of anthocyanin and flavonol glycosides in pea (*Pisum sativum* L. cv. Arkel) leaves , *Acta Biologica Szegediensis* ,52,2,301-305.
- 202 Avasthi, Uday K., Raghavendra, Agepati S., (2008) , Mutual stimulation of temperature and light effects on C₄ phosphoenolpyruvate carboxylase in leaf discs and leaves of *Amaranthus hypochondriacus* , *Journal of plant physiology*, Urban & Fischer,165,10,1023-1032.
- 201 Sunil, B., Riazunnisa, K., Krishna, T Sai., Schansker, Gert., Strasser, Reto J., Raghavendra, Agepati S., Mohanty, Prasanna., (2008) , Application of fast chlorophyll a fluorescence transient (OJIP) analysis to monitor functional integrity of pea (*Pisum sativum*) mesophyll protoplasts during isolation , , CSIR,,,,.
- 200 Riazunnisa, K., Padmavathi, L., Sunil, B., Raghavendra, Agepati S., (2008) , Multiple

Factors Mediate the Cross Talk Between Mitochondrial Metabolism and Photosynthetic Carbon Assimilation: Roles of Photorespiratory CO₂ and Ascorbate , Photosynthesis. Energy from the Sun, Springer, Dordrecht,, 1057-1061.

199 Swaminath, G., Avasthi, Uday K., Raghavendra, Agepati S., (2008) , Interaction of polyethylene glycol-6000 with C₄ phosphoenolpyruvate carboxylase in crude leaf extracts as well as in purified protein form from *Amaranthus hypochondriacus* L.: evidence for oligomerization of PEPC in vitro and in vivo , Physiology and Molecular Biology of Plants, Springer-Verlag,14,3,227-234.

198 KOLLA, VENKAT APPARAO., RAGHAVENDRA, AS., (2008) , Regulation of Stomatal Opening and Signal Transduction Components in Guard Cells , Recent Advances in Plant Biotechnology and Its Applications: Prof. Dr. Karl-Hermann Neumann Commemorative Volume, IK International Pvt Ltd,,.

197 Kolla, VA., Vavasseur, A., Raghavendra, AS., (2007) , Hydrogen peroxide production is an early event during bicarbonate induced stomatal closure in abaxial epidermis of *Arabidopsis* , Planta, Springer-Verlag,225,6,1421-1429.

196 Kolla, Venkat Apparao., Raghavendra, Agepati S., (2007) , Nitric oxide is a signaling intermediate during bicarbonate-induced stomatal closure in *Pisum sativum* , Physiologia Plantarum, Blackwell Publishing Ltd Oxford, UK,130,1,91-98.

195 Riazunnisa, Khateef., Padmavathi, Lolla., Scheibe, Renate., Raghavendra, Agepati S., (2007) , Preparation of *Arabidopsis* mesophyll protoplasts with high rates of photosynthesis , Physiologia Plantarum, Blackwell Publishing Ltd Oxford, UK,129,4,879-886.

194 Padmavathi, L., Raghavendra, AS., (2007) , Restriction of Alternative Pathway or Cytochrome Pathway of Mitochondrial Electron Transport Makes Mesophyll Protoplasts of Pea Susceptible to Photo-inhibition at Even Moderate Light , JOURNAL OF PLANT BIOLOGY-NEW DELHI, Society for Plant Physiology and Biochemistry New Delhi,34,1,49.

193 Raghavendra, A., Padmavathi, L., Sunil, B., (2007) , Multiple factors mediate the cross talk between mitochondrial metabolism and photosynthetic carbon assimilation: Important roles of ascorbate and photorespiratory CO₂ , PHOTOSYNTHESIS RESEARCH, SPRINGER VAN GODEWIJCKSTRAAT 30, 3311 GZ DORDRECHT, NETHERLANDS,91,2-3,258-258.

192 Gowik, Udo., Engelmann, Sascha., Bläsing, OE., Raghavendra, Agepati S., Westhoff, Peter., (2006) , Evolution of C₄ phosphoenolpyruvate carboxylase in the genus *Alternanthera*: gene families and the enzymatic characteristics of the C₄ isozyme and its orthologues in C₃ and C₃/C₄ *Alternantheras* , Planta, Springer-Verlag,223,2,359-368.

191 Riazunnisa, Khateef., Padmavathi, Lolla., Bauwe, Hermann., Raghavendra, Agepati S., (2006) , Markedly low requirement of added CO₂ for photosynthesis by mesophyll protoplasts of pea (*Pisum sativum*): possible roles of photorespiratory CO₂ and carbonic anhydrase , Physiologia Plantarum, Blackwell Publishing Ltd Oxford, UK,128,4,763-772.

190 REDDY, ATTIPALLI R., RAGHAVENDRA, AGEPATI S., (2006) , Photooxidative stress , Physiology and molecular biology of stress tolerance in plants, Springer, Dordrecht,, 157-186.

189 Sunil, B., Raghavendra, Agepati S., (2006) , Genetic Manipulation of Photosynthesis in Higher Plants: Progress and Possible Applications , Plant Biotechnology: Perspectives and Prospects, Festschrift in Honour of Prof. CP Malik, Pointer Publishers,,4.

188 Madhava Rao, KV., Raghavendra, AS., Reddy, K Janardhan., (2006) , Physiology and Molecular Biology of Stress Tolerance in Plants. Printed in the Netherlands , , Springer. pp,,.

- 187 Rao, K., Raghavendra, A., Reddy, K., (2006) , Physiology and molecular biology of stress tolerance , , Dordrecht: Springer,,,.
- 186 Vavasseur, Alain., Raghavendra, Agepati S., (2005) , Guard cell metabolism and CO₂ sensing , New Phytologist, Blackwell Science Ltd Oxford, UK,165,3,665-682.
- 185 Murmu, Jhadeswar., Raghavendra, Agepati S., (2005) , Modulation of phosphoenolpyruvate carboxylase in vivo by Ca²⁺ in *Amaranthus hypochondriacus*, a NAD-ME type C₄ plant: Possible involvement of Ca²⁺ in up-regulation of PEPC-protein kinase in vivo , Journal of plant physiology, Urban & Fischer,162,10,1095-1102.
- 184 Raghavendra, Agepati S., Sane, Prafullachandra Vishnu., Mohanty, Prasanna., (2005) , Photosynthesis research in India: transition from yield physiology into molecular biology , Discoveries in Photosynthesis, Springer, Dordrecht,,,1189-1204.
- 183 Murmu, J., Raghavendra, AS., (2005) , Marked modulation by NH₄⁺, but limited effects of NO₃⁻ on phosphoenolpyruvate carboxylase in leaves of *Amaranthus hypochondriacus*, a C₄ plant , PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS, DR. SK GARG,11,2,265.
- 182 Raghavendra, AS., (2005) , Photosynthesis. Regulation Under Varying Light Regimes , , Current Science Association,,,.
- 181 Suhita, Dontamala., Raghavendra, Agepati S., Kwak, June M., Vavasseur, Alain., (2004) , Cytoplasmic alkalization precedes reactive oxygen species production during methyl jasmonate-and abscisic acid-induced stomatal closure , Plant physiology, American Society of Plant Biologists,134,4,1536-1545.
- 180 Kolla, Venkat Apparao., Suhita, Dontamala., Raghavendra, Agepati S., (2004) , Marked changes in volume of mesophyll protoplasts of pea (*Pisum sativum*) on exposure to growth hormones , Journal of plant physiology, Urban & Fischer,161,5,557-562.
- 179 Rajagopalan, AV., Agarwal, RM., Raghavendra, AS., (2004) , Modulation in vivo by Nitrate Salts of the Activity and Properties of Phosphoenolpyruvate Carboxylase in Leaves of *Alternanthera pungens* (C₄ plant) and *A. sessilis* (C₃ species) , Photosynthetica, Kluwer Academic Publishers,42,3,345-349.
- 178 Dwivedi, Padmanabh., Raghavendra, AS., (2004) , Modulation of osmotic stress effects on photosynthesis and respiration by temperature in mesophyll protoplast of pea , , NISCAIR-CSIR, India,,,.
- 177 Suhita, Dontamala., Raghavendra, Agepati S., Kwak, June M., Vavasseur, Alain., (2004) , CELL BIOLOGY AND SIGNAL TRANSDUCTION-Cytoplasmic Alkalization Precedes Reactive Oxygen Species Production during Methyl Jasmonate-and Abscisic Acid-Induced Stomatal Closure. , Plant Physiology, [Rockville, MD]: American Society of Plant Physiologists.,134,4,1536-1545.
- 176 Khosravinejad, F., Heydari, R., Farboodnia, T., Andre Dias, DAN., Jose, TP., Joaquim, EF., de Lacerda, CF., Silva, JV., da Costa, PH Alves., Gomes-Filho, E., (2004) , Proline accumulation in maize primary roots at low water potentials. II metabolic source of increased proline deposition in the elongation zone. , Pakistan Journal of Biological Sciences, orgz,12,2,31-38.
- 175 Raghavendra, Agepati S., (2004) , Mitochondrial Respiration , Encyclopedia of Plant and Crop Science (Print), Routledge,,,729-733.
- 174 Raghavendra, Agepati S., Padmasree, Kollipara., (2003) , Beneficial interactions of

mitochondrial metabolism with photosynthetic carbon assimilation , Trends in plant science, Elsevier Current Trends,8,11,546-553.

173 Suhita, Dontamala., Kolla, Venkat Apparao., Vavasseur, Alain., Raghavendra, Agepati S., (2003) , Different signaling pathways involved during the suppression of stomatal opening by methyl jasmonate or abscisic acid , Plant Science, Elsevier,164,4,481-488.

172 Komaraiah, P., Reddy, GV., Reddy, P Srinivas., Raghavendra, AS., Ramakrishna, SV., Reddanna, P., (2003) , Enhanced production of antimicrobial sesquiterpenes and lipoxygenase metabolites in elicitor-treated hairy root cultures of *Solanum tuberosum* , Biotechnology letters, Kluwer Academic Publishers,25,8,593-597.

171 Chinthapalli, Bhaskarrao., Murmu, Jhadeswar., Raghavendra, Agepati S., (2003) , Dramatic difference in the responses of phospho enol pyruvate carboxylase to temperature in leaves of C3 and C4 plants , Journal of Experimental Botany, Oxford University Press,54,383,707-714.

170 Raghavendra, Agepati S., Sane, Prafullachandra Vishnu., Mohanty, Prasanna., (2003) , Photosynthesis research in India: transition from yield physiology into molecular biology , Photosynthesis research, Kluwer Academic Publishers,76,1-3,435-450.

169 Murmu, Jhadeswar., Chinthapalli, Bhaskarrao., Raghavendra, Agepati S., (2003) , Marked modulation by phosphate of phosphoenolpyruvate carboxylase in leaves of *Amaranthus hypochondriacus*, a NAD-ME type C4 plant: decrease in malate sensitivity but no change in the phosphorylation status , Journal of experimental botany, Soc Experiment Biol,54,393,2661-2668.

168 Murmu, Jhadeswar., Chinthapalli, Bhaskarrao., Raghavendra, Agepati S., (2003) , Light activation of NADP malic enzyme in leaves of maize: marginal increase in activity, but marked change in regulatory properties of enzyme , Journal of plant physiology, Urban & Fischer,160,1,51-56.

167 Murmu, J., Chinthapalli, B., Raghavendra, AS., (2003) , Phosphoenolpyruvate carboxylase from leaves of C~ 4 plants: Biochemistry and molecular biology of regulation , Indian Journal of Plant Physiology, INDIAN SOCIETY FOR PLANT PHYSIOLOGY,8,1,164.

166 Dwivedi, P., Padmavathi, L., Gupta, KJ., Raghavendra, AS., (2003) , Increased capacity of alternative pathway of mitochondrial electron transport in mesophyll protoplasts of pea on exposure to osmotic stress , Indian Journal of Plant Physiology, INDIAN SOCIETY FOR PLANT PHYSIOLOGY,8,1,403.

165 Murmu, J., Raghavendra, AS., (2003) , Biochemistry of Photosynthesis: Recent Trends , JOURNAL OF PLANT BIOLOGY-NEW DELHI, Society for Plant Physiology and Biochemistry New Delhi,30,2,241-252.

164 Lindsey, Keith., Pullen, Margaret L., Topping, Jennifer F., Stratmann, Johannes., Horvath, David P., Anderson, James V., Chao, Wun S., Foley, Michael E., Leyser, Ottoline., Raghavendra, Agepati S., (2003) , 521 Importance of plant sterols in pattern formation and hormone signalling , Plant Science, ,8,11,513-560.

163 Raghavendra, AS., (2003) , PHOTOSYNTHESIS AND PARTITIONING| C3 Plants , , Elsevier,,.

162 Padmasree, K., Padmavathi, L., Raghavendra, AS., (2002) , Essentiality of mitochondrial oxidative metabolism for photosynthesis: optimization of carbon assimilation and protection against photoinhibition , Critical Reviews in Biochemistry and Molecular Biology, Taylor &

Francis,37,2,71-119.

161 Gardeström, Per., Igamberdiev, Abir U., Raghavendra, AS., (2002) , Mitochondrial functions in the light and significance to carbon-nitrogen interactions , Photosynthetic nitrogen assimilation and associated carbon and respiratory metabolism, Springer, Dordrecht,,151-172.

160 Raghavendra, AS., (2002) , Histology, biochemical studies and management of tomato leaf curl , , University of Agricultural Sciences GKVK, Bangalore,,.

159 Chinthapalli, Bhaskarrao., Raghavendra, AS., Rishi, AS., Goyal, Arun., (2002) , Phosphoenolpyruvate carboxylase from C4 plants: properties and regulation , Rev. Plant Biochem. Biotech, ,1,,143-159.

158 Padmasree, K., Raghavendra, AS., (2001) , Consequence of restricted mitochondrial oxidative metabolism on photosynthetic carbon assimilation in mesophyll protoplasts: decrease in light activation of four chloroplastic enzymes , Physiologia plantarum, Munksgaard International Publishers Copenhagen,112,4,582-588.

157 Padmasree, K., Raghavendra, AS., (2001) , Restriction of mitochondrial oxidative metabolism leads to suppression of photosynthetic carbon assimilation but not of photochemical electron transport in pea mesophyll protoplasts , Current Science, Current Science Association,,680-684.

156 Gayathri, J., Parvathi, K., Chinthapalli, Bhaskarrao., Westhoff, Peter., Raghavendra, AS., (2001) , Immunological characteristics of PEP carboxylase from leaves of C 3, C 4-and C 3 C 4 intermediate species of Alternanthera-Comparison with selected C 3 and C 4-plants , , NISCAIR-CSIR, India,,.

155 Padmavathi, L., Raghavendra, AS., (2001) , Importance of the cytochrome pathway of mitochondrial electron transport over the alternative pathway during the Kok effect in leaf discs of pea (*Pisum sativum*) , Physiologia plantarum, Munksgaard International Publishers Copenhagen,113,3,430-434.

154 Padmasree, K., Raghavendra, AS., (2001) , Photobiology and photosynthesis-Consequence of restricted mitochondrial oxidative metabolism on photosynthetic carbon assimilation in mesophyll protoplasts: Decrease in light activation of four , Physiologia Plantarum, Copenhagen, Munksgaard, 1948-,112,4,582.

153 Rao, Ch Bhaskar., Syed, Nasser., Murmu, Jhadeswar., Raghavendra, AS., (2001) , Cytosolic pH as a Secondary Messenger During Light Activation of Phosphoenolpyruvate Carboxylase in Mesophyll Cells of C 4 Plants , Signal Transduction in Plants, Springer, Boston, MA,,39-48.

152 Kar, RK., Parvin, N., Laha, D., Allen, GJ., Sarah, PC., Harrington, CL., Schumacher, K., Hoffmann, T., An, Z., Jing, W., (2001) , Inhibition of blue light-dependent H⁺ pumping by abscisic acid through hydrogen peroxide-induced dephosphorylation of the plasma membrane H⁺-ATPase in guard cell protoplasts. , Pakistan Journal of Biological Sciences, orgz,16,24,1053-1057.

151 Raghavendra, Agepati Srinivasa., (2000) , Photosynthesis: a comprehensive treatise , , Cambridge University Press,,.

150 Parvathi, K., Bhagwat, AS., Ueno, Y., Izui, K., Raghavendra, AS., (2000) , Illumination Increases the Affinity of Phospho enol pyruvate Carboxylase to Bicarbonate in Leaves of a C4 Plant, *Amaranthus hypochondriacus* , Plant and Cell Physiology, Oxford University Press,41,8,905-910.

- 149 Padmasree, K., Raghavendra, AS., (2000) , 15 Interaction with respiration and nitrogen metabolism , *Photosynthesis: A Comprehensive Treatise*, Cambridge Univ Pr,,,197.
- 148 Parvathi, K., Gayathri, J., Maralihalli, GB., Bhagwat, AS., Raghavendra, AS., (2000) , Modulation of phosphoenolpyruvate carboxylase phosphorylation in leaves of *Amaranthus hypochondriacus*, a NAD-ME type of C 4 plant , *Photosynthetica*, Springer Netherlands,38,1,23-28.
- 147 Padmasree, K., Raghavendra, AS., (2000) , Photorespiration and interaction between chloroplasts, mitochondria and peroxisomes , *Probing Photosynthesis. Mechanisms, Regulation and Adaptation*, Taylor & Francis,,246-261.
- 146 Gayathri, J., Parvathi, K., Raghavendra, AS., (2000) , Purification and Stability during Storage of Phosphoenolpyruvate Carboxylase from Leaves of *Amaranthus hypochondriacus*, a NAD-ME Type C 4 Plant , *Photosynthetica*, Springer Netherlands,38,1,45-52.
- 145 Chinthapalli, Bhaskarrao., Raghavan, Chitra., Bläsing, O., Westhoff, P., Raghavendra, AS., (2000) , Phosphoenolpyruvate Carboxylase Purified from Leaves of C 3, C 4, and C 3-C 4 intermediate species of *Alternanthera*: Properties at Limiting and Saturating Bicarbonate , *Photosynthetica*, Springer Netherlands,38,3,415-419.
- 144 Devi, MT., Chinthapalli, BR., Raghavendra, AS., (2000) , Responses of photosynthesis, photoinhibition and dark respiration to CO₂ in leaf discs of C3-C4 intermediate species: reduced sensitivity to external CO₂ in C3-C4 intermediates compared to that in C3 species. , *Journal of Plant Biology, Society for Plant Physiology & Biochemistry*,27,2,125-131.
- 143 Raghavendra, AS., Santrucek, J., (2000) , 3rd Regional Photosynthesis Workshop-The Chlorophyll Fluorescence Imaging and its Application in Plant Science and Technology-Book reviews-*Photosynthesis. A Comprehensive Treatise* , *Photosynthetica*, Praha, Academia.,38,4,530-530.
- 142 Adhya, Samit., Ahmad, Calcutta Faizan., Bhakuni, Vinod., Bhattacharya, Lucknow S., Bhattacharya, Calcutta Alok., Bhojwani, Sant., Bowman, John L., Brahmachari, Davis Vani., Govind, CK., Gross, Ontario Julian., (2000) , The Editorial Board wishes to place on record the valuable assistance rendered by the following scientists in reviewing manuscripts received for publication in the *Journal of Biosciences*. , *J. Biosci*, ,25,4,.
- 141 Padmasree, K., Raghavendra, AS., (1999) , Response of photosynthetic carbon assimilation in mesophyll protoplasts to restriction on mitochondrial oxidative metabolism: metabolites related to the redox status and sucrose biosynthesis , *Photosynthesis Research*, Kluwer Academic Publishers,62,2,231-239.
- 140 Padmasree, K., Raghavendra, AS., (1999) , Importance of oxidative electron transport over oxidative phosphorylation in optimizing photosynthesis in mesophyll protoplasts of pea (*Pisum sativum* L.) , *Physiologia Plantarum*, Munksgaard International Publishers Copenhagen,105,3,546-553.
- 139 Willmer, CM., Padmasree, K., Raghavendra, AS., (1999) , A novel method of measuring volume changes of mesophyll cell protoplasts and the effect of mercuric chloride on their osmotically-induced swelling , *Journal of experimental botany*, Oxford University Press,50,332,401-406.
- 138 Padmasree, K., Raghavendra, AS., (1999) , Prolongation of photosynthetic induction as a consequence of interference with mitochondrial oxidative metabolism in mesophyll protoplasts of the pea (*Pisum sativum* L.) , *Plant Science*, Elsevier,142,1,29-36.

- 137 Raghavendra, AS., (1999) , Biomolecular Electronics-An Introduction via Photosensitive Proteins , INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY, PUBLICATIONS & INFORMATION DIRECTORATE, CSIR,37,,734-734.
- 136 Padmasree, K., Raghavendra, AS., (1999) , Photobiology and photosynthesis-Importance of oxidative electron transport over oxidative phosphorylation in optimizing photosynthesis in mesophyll protoplasts of pea (*Pisum sativum* L) , *Physiologia Plantarum*, Copenhagen, Munksgaard, 1948-,105,3,546-553.
- 135 Raghavendra, Agepati S., Reumann, Sigrun., Heldt, Hans W., (1998) , Participation of mitochondrial metabolism in photorespiration: reconstituted system of peroxisomes and mitochondria from spinach leaves , *Plant physiology*, American Society of Plant Biologists,116,4,1333-1337.
- 134 Parvathi, K., Bhagwat, AS., Raghavendra, AS., (1998) , Modulation by Bicarbonate of Catalytic and Regulatory Properties of C₄Phospho enol pyruvate Carboxylase from *Amaranthus hypochondriacus*: Desensitization to Malate and Glucose 6-Phosphate and Sensitization to Mg²⁺ , *Plant and cell physiology*, Oxford University Press,39,12,1294-1298.
- 133 Rajagopalan, AV., Gayathri, J., Raghavendra, AS., (1998) , Modulation by weak bases or weak acids of the pH of cell sap and phosphoenolpyruvate carboxylase activity in leaf discs of C₄ plants , *Physiologia Plantarum*, Munksgaard International Publishers Copenhagen,104,3,456-462.
- 132 Rajagopalan, AV., Gayathri, J., Raghavendra, AS., (1998) , Photobiology and photosynthesis-Modulation by weak bases or weak acids of the pH of cell sap and phosphoenolpyruvate carboxylase activity in leaf discs of C₄ plants , *Physiologia Plantarum*, Copenhagen, Munksgaard, 1948-,104,3,456-462.
- 131 Brown, DH., (1998) , Identification of *Parmelia* Ach. 1997. London: British Lichen Society. CD-Rom.£ 12 (£ 8 for members of the British Lichen Society,£ 24 for multi-user licence). Available from Mr WGR Stevens, The British Lichen Society, 29 Limerick Road, Redland, Bristol BS6 7DY, UK. , , , , ,.
- 130 Parvathi, K., Bhagwat, AS., Raghavendra, AS., (1998) , Enhanced Affinity of C₄ PEP Carboxylase to Bicarbonate on Illumination in *Amaranthus Hypochondriacus* Leaves , *Photosynthesis: Mechanisms and Effects*, Springer, Dordrecht,,,3415-3418.
- 129 Padmasree, K., Raghavendra, AS., (1998) , Mitochondrial Oxidative Electron Transport Optimizes Photosynthesis in Mesophyll Protoplasts of Pea , *Photosynthesis: Mechanisms and Effects*, Springer, Dordrecht,,,3727-3730.
- 128 Raghavendra, AS., Parvathi, K., Gayathri, J., (1998) , Modulation by Calcium of PEP Carboxylase and PEPcprotein Kinase from Leaves of *Amaranthus Hypochondriacus*, an NAD-ME Type C₄ Plant , *Photosynthesis: Mechanisms and Effects*, Springer, Dordrecht,,,3419-3422.
- 127 Parvathi, K., Raghavendra, AS., (1997) , Both rubisco and phosphoenolpyruvate carboxylase are beneficial for stomatal function in epidermal strips of *Commelina benghalensis* , *Plant Science*, Elsevier,124,2,153-157.
- 126 Parvathi, K., Raghavendra, AS., (1997) , Blue light-promoted stomatal opening in abaxial epidermis of *Commelina benghalensis* is maximal at low calcium , *Physiologia Plantarum*, Blackwell Publishing Ltd Oxford, UK,101,4,861-864.
- 125 Saradadevi, K., Padmasree, K., Raghavendra, AS., (1996) , Correlation between the

inhibition of photosynthesis and the decrease in area of detached leaf discs or volume/absorbance of protoplasts under osmotic stress in pea (*Pisum sativum*) , *Physiologia Plantarum*, Blackwell Publishing Ltd Oxford, UK,96,3,395-400.

124 Devi, MT., Rajagopalan, AV., Raghavendra, AS., (1995) , Predominant localization of mitochondria enriched with glycine-decarboxylating enzymes in bundle sheath cells of *Alternanthera tenella*, a C3–C4 intermediate species , *Plant, Cell & Environment*, Blackwell Publishing Ltd Oxford, UK,18,5,589-594.

123 Parvathi, K., Raghavendra, AS., (1995) , Bioenergetic processes in guard cells related to stomatal function , *Physiologia Plantarum*, Munksgaard International Publishers Copenhagen,93,1,146-154.

122 Raghavendra, Agepati S., Gerst, Ulvi., Heber, Ulrich., (1995) , Oscillations in photosynthetic carbon assimilation and chlorophyll fluorescence are different in *Amaranthus caudatus*, a C 4 plant, and *Spinacia oleracea*, a C 3 plant , *Planta*, Springer-Verlag,195,4,471-477.

121 RAJAGOPALAN, AV., DEVI, MT., RAGHAVENDRA, AS., (1995) , MOLECULAR-BIOLOGY OF C-4 PHOSPHOENOLPYRUVATE CARBOXYLASE-STRUCTURE, REGULATION AND GENETIC-ENGINEERING (VOL 39, PG 115, 1994) , PHOTOSYNTHESIS RESEARCH, KLUWER ACADEMIC PUBL SPUIBOULEVARD 50, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS,43,2,174-174.

120 Parvathi, K., Raghavendra, AS., (1995) , Minireview: Bioenergetic processes in guard cells related to stomatal function [blue light, signal transduction, secondary messenger] , *Physiologia Plantarum* (Denmark), ,,,.

119 Raghavendra, AS., (1995) , Photosynthesis and respiration in mesophyll protoplasts of pea in response to osmotic stress and photoinhibition , , Hyderabad,,.

118 Raghavendra, AS., Padmasree, K., Saradadevi, K., (1994) , Interdependence of photosynthesis and respiration in plant cells: interactions between chloroplasts and mitochondria , *Plant Science*, Elsevier,97,1,1-14.

117 Rajagopalan, AV., Devi, M Tirumala., Raghavendra, AS., (1994) , Molecular biology of C 4 phosphoenolpyruvate carboxylase: structure, regulation and genetic engineering , *Photosynthesis research*, Kluwer Academic Publishers,39,2,115-135.

116 Saradadevi, K., Raghavendra, AS., (1994) , Inhibition of photosynthesis by osmotic stress in pea (*Pisum sativum*) mesophyll protoplasts is intensified by chilling or photoinhibitory light; intriguing responses of respiration , *Plant, Cell & Environment*, Blackwell Publishing Ltd Oxford, UK,17,6,739-746.

115 Vani, Turumella., Raghavendra, Agepati S., (1994) , High mitochondrial activity but incomplete engagement of the cyanide-resistant alternative pathway in guard cell protoplasts of pea , *Plant Physiology*, American Society of Plant Biologists,105,4,1263-1268.

114 Gayathri, J., Raghavendra, AS., (1994) , Ammonium ions stimulate in vitro the activity of phosphoenolpyruvate carboxylase from leaves of *Amaranthus hypochondriacus*, a C4 plant: evidence for allosteric activation. , *Biochemistry and molecular biology international*, ,33,2,337-343.

113 Sundari, D Sudha., Saradadevi, K., Raghavendra, AS., (1994) , Suppression of oxygen evolving system in spinach chloroplast membranes due to release of manganese on exposure to osmotic stress in vitro in presence of magnesium , *Journal of Plant Biochemistry and*

Biotechnology, Springer India,3,2,137-140.

112 Tirumala Devi, M., Raghavendra, AS., (1994) , Formation of photorespiratory glycollate and glyoxylate in leaf discs of C3-C4 intermediates: Reduced sensitivity to external bicarbonate , Photosynthetica (Czech Republic), ,,,.

111 Raghavendra, AS., Padmasree, K., Saradadevi, K., Healey, P., Ng, TJ., Hammerschlag, FA., Singla, SL., Grover, A., Crosatti, C., Rizza, F., (1994) , esculentum) plants MJM Smulders, W. Rus-Kortekaas, LJW Gilisscn (Wageningen, The Netherlands)..... , Plant Science, ,97,,235-236.

110 Raghavendra, AS., Vani, T., (1994) , Links high mitochondrial activity but incomplete engagement of the cyanide-resistant alternative pathway in guard cell protoplasts of pea , Plant Physiol, ,105,4,1263-1268.

109 Yin, Zu-Hua., Heber, Ulrich., Raghavendra, AS., (1993) , Light-induced pH changes in leaves of C 4 plants , Planta, Springer-Verlag,189,2,267-277.

108 Raghavendra, AS., Yin, Zu-Hua., Heber, Ulrich., (1993) , Light-dependent pH changes in leaves of C 4 plants Comparison of the pH response to carbon dioxide and oxygen with that of C 3 plants , Planta, Springer-Verlag,189,2,278-287.

107 Shyam, R., Raghavendra, AS., Sane, PV., (1993) , Role of dark respiration in photoinhibition of photosynthesis and its reactivation in the cyanobacterium Anacystis nidulans , Physiologia Plantarum, Blackwell Publishing Ltd Oxford, UK,88,3,446-452.

106 Rajagopalan, AV., Devi, M Tirumala., Raghavendra, AS., (1993) , Patterns of phosphoenolpyruvate carboxylase activity and cytosolic pH during light activation and dark deactivation in C 3 and C 4 plants , Photosynthesis research, Kluwer Academic Publishers,38,1,51-60.

105 DEVI, M TIRUMALA., Raghavendra, AS., (1993) , Partial reduction in activities of photorespiratory enzymes in C3–C4 intermediates of Alternanthera and Parthenium , Journal of experimental botany, Oxford University Press,44,4,779-784.

104 Devi, M Tirumala., Raghavendra, AS., (1993) , Photorespiration in C 3–C 4 intermediate species of Alternanthera and Parthenium: Reduced ammonia production and increased capacity of CO 2 refixation in the light , Photosynthesis research, Kluwer Academic Publishers,38,2,177-184.

103 Raghavendra, AS., Das, VS Rama., (1993) , C 4 photosynthesis and C 3-C 4 intermediacy: adaptive strategies for semiarid tropics , Photosynthesis: Photoreactions to Plant Productivity, Springer, Dordrecht,,317-338.

102 RAJAGOPALAN, AV., DEVI, MT., RAGHAVENDRA, AS., (1993) , DISTINCT PATTERN OF LIGHT ACTIVATION AND DARK-DEACTIVATION OF PEP CARBOXYLASE IN C4 PLANTS-POSSIBLE RELATIONSHIP TO CYTOSOLIC PH , PLANT PHYSIOLOGY, AMER SOC PLANT PHYSIOLOGISTS 15501 MONONA DRIVE, ROCKVILLE, MD 20855,102,1,172-172.

101 Saradadevi, Kanakagiri., Raghavendra, Agepati S., (1992) , Dark respiration protects photosynthesis against photoinhibition in mesophyll protoplasts of pea (Pisum sativum) , Plant Physiology, American Society of Plant Biologists,99,3,1232-1237.

100 TIRUMALA DEVI, M., Vani, T., MALA REDDY, M., Raghavendra, AS., (1992) , Rapid isolation of mesophyll and guard cell protoplasts from pea and maize leaves , Indian journal of experimental biology, ,30,5,424-428.

- 99 Devi, M Tirumala., Raghavendra, AS., (1992) , Light activation of phosphoenolpyruvate carboxylase in maize mesophyll protoplasts , Journal of plant physiology, Urban & Fischer,139,4,431-435.
- 98 Siebke, Katharina., Yin, Zu-Hua., Raghavendra, Agepati S., Heber, Ulrich., (1992) , Vacuolar pH oscillations in mesophyll cells accompany oscillations of photosynthesis in leaves: Interdependence of cellular compartments, and regulation of electron flow in photosynthesis , Planta, Springer-Verlag,186,4,526-531.
- 97 Vani, T., Raghavendra, AS., (1992) , Plasma membrane redox system in guard cell protoplasts of pea (*Pisum sativum* L.) , Journal of experimental botany, Soc Experiment Biol,43,3,291-297.
- 96 Devi, M Tirumala., Rajagopalan, AV., Raghavendra, AS., (1992) , Structure, regulation and biosynthesis of phosphoenolpyruvate carboxylase from C 4 plants , Journal of Plant Biochemistry and Biotechnology, Springer India,1,2,73-80.
- 95 SARADADEVI, K., PADMASREE, K., RAGHAVENDRA, AS., (1992) , INTERACTION BETWEEN RESPIRATION, PHOTOSYNTHESIS AND PHOTOINHIBITION IN PEA MESOPHYLL PROTOPLASTS , PHOTOSYNTHESIS RESEARCH, KLUWER ACADEMIC PUBL SPUIBOULEVARD 50, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS,34,1,199-199.
- 94 SANE, PV., RAGHAVENDRA, AS., SHYAM, R., (1992) , ROLE OF DARK RESPIRATION IN PHOTOINHIBITION OF PHOTOSYNTHESIS AND ITS REACTIVATION IN THE CYANOBACTERIUM ANACYSTIS-NIDULANS , PHOTOSYNTHESIS RESEARCH, KLUWER ACADEMIC PUBL SPUIBOULEVARD 50, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS,34,1,233-233.
- 93 Rizal, Govinda., Karki, Shanta., Thakur, Vivek., Chatterjee, Jolly., A. Coe, Robert., Wanchana, Samart., Quick, William Paul., Agostino, A., Jeffrey, P., Hatch, MD., (1992) , Single-cell C4 photosynthesis versus the dual-cell paradigm. , Asian Journal of Cell Biology, orgz,7,2,1506-1510.
- 92 Reddy, M Malla., Vani, Turumella., Raghavendra, Agepati S., (1991) , Light-enhanced dark respiration in mesophyll protoplasts from leaves of pea , Plant Physiology, American Society of Plant Biologists,96,4,1368-1371.
- 91 Raghavendra, A., (1991) , Physiology of trees , , , ,.
- 90 Raghavendra, AS., (1990) , Blue light effects on stomata are mediated by the guard cell plasma membrane redox system distinct from the proton translocating ATPase , Plant, Cell & Environment, Blackwell Publishing Ltd Oxford, UK,13,2,105-110.
- 89 Vani, T., Reddy, M Malla., Raghavendra, AS., (1990) , Beneficial interaction between photosynthesis and respiration in mesophyll protoplasts of pea during short light-dark cycles , Physiologia plantarum, Blackwell Publishing Ltd Oxford, UK,80,3,467-471.
- 88 Sundari, D Sudha., Raghavendra, AS., (1990) , Sensitivity of photosynthesis by spinach chloroplast membranes to osmotic stress in vitro: Rapid inhibition of O₂ evolution in presence of magnesium , Photosynthesis research, Kluwer Academic Publishers,23,3,325-330.
- 87 Sudha Sundari, D., Raghavendra, AS., (1990) , Sensitivity of photosynthesis by spinach chloroplast membranes to osmotic stress in vitro: rapid inhibition of O₂ evolution in presence of magnesium , Photosynthesis Research (Netherlands), , , ,.
- 86 Vani, T., Raghavendra, AS., (1989) , Tetrazolium reduction by guard cells in abaxial

epidermis of *Vicia faba*: blue light stimulation of a plasmalemma redox system , Plant physiology, American Society of Plant Biologists,90,1,59-62.

85 Raghavendra, AS., Vani, T., (1989) , Respiration in guard cells, pattern and possible role in stomatal function , Journal of plant physiology, Urban & Fischer,135,1,3-8.

84 Raghavendra, AS., Reddy, K Bhaskar., (1987) , Action of proline on stomata differs from that of abscisic acid, G-substances, or methyl jasmonate , Plant Physiology, American Society of Plant Biologists,83,4,732-734.

83 Sethuraj, MR., Raghavendra, AS., (1987) , Rubber , Developments in Agricultural and Managed Forest Ecology, Elsevier,18,,193-223.

82 Sethuraj, MR., Raghavendra, AS., (1987) , Tree crop physiology , , Amsterdam (Netherlands) Elsevier,,.

81 Sudha Sundari, D., Raghavendra, AS., (1987) , Magnesium induced inhibition of photochemical activities in osmotically stressed spinach chloroplasts , Proceedings of the Indian National Science Academy. Part B Biological sciences, ,53,5-6,439-443.

80 Gururaja Rao, G., Raghavendra, AS., Sethuraj, MR., (1987) , Measurement of leaf water potential in rubber: comparison of thermocouple psychrometer and pressure chamber-problems and perspectives , Proceedings of the IRRDB Rubber Physiology and Exploitation Meeting 1986, SCATC, Hainan, China/edited by Pan Yanqing and Zhao Canwen, [Hainan, China?: South China Academy of Tropical Crops?, 1987?].,.,.

79 Chenga Reddy, V., BHASKAR, CV S., Raghavendra, AS., DAS, VS R., (1984) , Photosynthesis of wheat cultivars in relation to photosynthetic unit and stomatal conductance , Photosynthetica (Praha), ,18,2,226-230.

78 Murthy, BV., Raghavendra, AS., Rama, VS Das., (1984) , Stomatal opening in isolated epidermis of *Commelina benghalensis* L. heterophasic response to KCl concentration , Plant cell reports, Springer-Verlag,3,5,199-202.

77 REDDY, K BHASKAR., RAO, C RAMA., RAO, KR., RAGHAVENDRA, AS., (1984) , REDISTRIBUTION OF POTASSIUM WITHIN EPIDERMIS OF *COMMELINA BENGHALENSIS* LINN. DURING FUSICOCCIN STIMULATED STOMATAL OPENING , Current Science, Temporary Publisher,53,5,267-270.

76 Satheesan, KV., Rao, G Gururaja., Sethuraj, MR., Raghavendra, AS., (1984) , Canopy photosynthesis in rubber (*Hevea brasiliensis*): characteristics of leaves in relation to light interception , Advances in photosynthesis research, Springer, Dordrecht,,125-128.

75 Raghavendra, AS., Sulochanamma, S., Ammal, S Visalakshy., Sethuraj, MR., (1984) , THE PATTERN OF LATEX FLOW DURING TAPPING OF A RUBBER TREE, *HEVEA BRASILIENSIS* , PLANT PHYSIOLOGY, AMER SOC PLANT BIOLOGISTS 15501 MONONA DRIVE, ROCKVILLE, MD 20855 USA,75,,125-125.

74 Surendar, K Krishna., Devi, D Durga., Ravi, I., Jeyakumar, P., Velayudham, K., Aebi, H., Allen, RD., Webb, RP., Schake, SA., Alschér, RG., (1984) , Overproduction of Arabidopsis thaliana FeSOD confers oxidative stress tolerance to transgenic maize. , Pakistan Journal of Biological Sciences, orgz,16,24,121-126.

73 Klobus, G., Maniania, NK., Fargues, J., Ohlrogge, JB., Kuo, TM., McCann, AK., Barnett, JA., Eichenberger, W., Urban, B., Ronchi, VN., (1984) , 2615601. Sources of reducing equivalents for nitrate reductase in *Pisum arvense* roots , Acta Societatis Botanicorum Poloniae, ,53,4,499-505.

- 72 Reddy, K Bhaskar., Rao, KR., Raghavendra, AS., (1983) , Stomatal metabolism in isolated abaxial and adaxial epidermis of *Commelina benghalensis*: Variation in proton efflux and adenosine triphosphatase activity , *Zeitschrift für Pflanzenphysiologie*, Urban & Fischer,111,5,401-412.
- 71 REDDY, K BHASKAR., Rao, C Rama., Raghavendra, AS., (1983) , Change in levels of starch and sugars in epidermis of *Commelina benghalensis* during fusicoccin stimulated stomatal opening , *Journal of Experimental Botany*, Oxford University Press,34,8,1018-1025.
- 70 Chenga Reddy, V., Raghavendra, AS., Das, VSR., (1983) , Photosynthetic units and carbon assimilation in leaves of grain *Sorghum* under different light intensities , *Plant and cell physiology*, Oxford University Press,24,8,1395-1400.
- 69 Mrinalini, T., Latha, YK., Raghavendra, AS., Das, VSR., (1982) , Stimulation and inhibition by bicarbonate of stomatal opening in epidermal strips of *Commelina benghalensis* , *New Phytologist*, Blackwell Publishing Ltd Oxford, UK,91,3,413-418.
- 68 DAS, VS RAMA., RAGHAVENDRA, AGEPATI S., (1982) , Stomata: The physiology and biochemistry of their regulation in leaves , *Current Science*, Temporary Publisher,51,12,586-593.
- 67 Raghavendra, AS., Vallejos, RH., (1982) , Regulation of phosphoenolpyruvate carboxylase from C4 plants: involvement of thiol groups in catalytic reaction of enzyme from *Amaranthus viridis* L , *Indian journal of experimental biology*, ,,,.
- 66 Raghavendra, Agepati S., (1981) , Energy supply for stomatal opening in epidermal strips of *Commelina benghalensis* , *Plant physiology*, American Society of Plant Biologists,67,2,385-387.
- 65 Raghavendra, A., Carrillo, N., Vallejos, R., (1981) , The pattern and characteristics of membrane bound Ribulose biphosphate carboxylase in spinach chloroplasts , *Proceedings Vth International Congress of Photosynthesis IV*, Balban International Science Services, ,,,31-38.
- 64 Raghavendra, Agepati S., Carrillo, Nestor J., Vallejos, Ruben H., (1981) , Differential modulation of carboxylase and oxygenase activities of ribulose 1, 5-bisphosphate carboxylase/oxygenase released from freshly ruptured spinach chloroplasts , *Plant and Cell Physiology*, Oxford University Press,22,6,1113-1117.
- 63 Raghavendra, AS., (1980) , Characteristics of plant species intermediate between C3 and C4 pathways of photosynthesis: their focus of mechanism and evolution of C4 syndrome. , *Photosynthetica*, ,14,2,271-283.
- 62 Raghavendra, AS., (1980) , Chloride and nitrate stimulate stomatal opening and decrease potassium uptake and malate production in epidermal tissues of *Commelina benghalensis* , *Functional Plant Biology*, CSIRO PUBLISHING,7,6,663-669.
- 61 RAGHAVENDRA, AGEPATI S., (1980) , Variation with age in the photosynthetic carbon fixation pattern by leaves of *Amaranthus paniculatus* and *Oryza sativa*: change in the primary carboxylation but no shift from C4 or C3 pathway , *Physiologia plantarum*, Blackwell Publishing Ltd Oxford, UK,49,4,405-409.
- 60 Raghavendra, Agepati S., Vallejos, Rubén H., (1980) , Regulation of phosphoenolpyruvate carboxylase in C4 plants: Inhibition by pyrophosphate of the enzyme from *Amaranthus viridis* , *Archives of biochemistry and biophysics*, Academic Press,201,1,356-358.
- 59 Hussein, AHA., Abdel-Nasser, G., EL-Shazly, SM., Abdel-Rasoul, M., El-Saidi, MT., Gabr, AL., El-Zeiny, HA., Allen, RG., Pereira, LS., Raes, D., (1980) , Studies in the water

relations of the cotton plant. I. The field measurement of water deficits in leaves. , Journal of Agronomy, 7,4,pp: 494-500.

58 Rajendrudu, G., Rao, I Madhusudana., Raghavendra, AS., Das, VS Rama., (1979) , Isolation of intact mesophyll cells from the leaves of higher plants , Proceedings of the Indian Academy of Sciences-Section B. Part 2, Plant Sciences, Springer India,88,2,143-154.

57 Das, VSR., Raghavendra, AS., (1979) , Antitranspirants for improvement of water use efficiency of crops , Outlook on Agriculture, SAGE Publications Sage UK: London, England,10,2,92-98.

56 RAGHAVENDRA, AS., (1979) , VARIATION WITH AGE IN THE CARBOXYLATION PATTERN BY LEAVES OF AMARANTHUS-PANICULATUS AND ORYZA-SATIVA , PLANT PHYSIOLOGY, AMER SOC PLANT PHYSIOLOGISTS 15501 MONONA DRIVE, ROCKVILLE, MD 20855,63,5,159-159.

55 RAGHAVENDRA, AS., VALLEJOS, RH., (1979) , REGULATION OF PHOSPHOENOLPYRUVATE CARBOXYLASE FROM AMARANTHUS-VIRIDIS, A C-4 PLANT-INHIBITION BY PYROPHOSPHATE AND ROLE OF-SH GROUPS , ARCHIVOS DE BIOLOGIA Y MEDICINA EXPERIMENTALES, SOC BIOL CHILE CASILLA 14164 CORREO, SANTIAGO 9, CHILE,12,2,283-283.

54 RAGHAVENDRA, AS., VALLEJOS, RH., (1979) , REGULATION OF PHOSPHOENOLPYRUVATE CARBOXYLASE IN C4-PLANTS-INHIBITION BY PYROPHOSPHATE , PLANT PHYSIOLOGY, AMER SOC PLANT PHYSIOLOGISTS 15501 MONONA DRIVE, ROCKVILLE, MD 20855,63,5,4-4.

53 Raghavendra, AS., (1978) , The occurrence of C₄-photosynthesis: a supplementary list of C₄ plants reported during late 1974-mid 1977 , Photosynthe, 12,,200-208.

52 Raghavendra, AS., Rajendrudu, G., Das, VSR., (1978) , Simultaneous occurrence of C₃ and C₄ photosyntheses in relation to leaf position in Mollugo nudicaulis , Nature, Nature Publishing Group,273,5658,143-144.

51 Raghavendra, AS., Das, VSR., (1978) , (Na⁺-K⁺)-stimulated ATPase in leaves of C₄ plants: possible involvement in active transport of C₄ acids , Journal of Experimental Botany, Oxford University Press,29,1,39-47.

50 Raghavendra, AS., AS, RAGHAVENDRA., VSR, DAS., (1978) , CARBON FIXATION PATTERN IN CHLOROPLAST ISOLATED FROM C₃-AND C₄-PLANTS , , , ,.

49 Raghavendra, AS., Das, VSR., (1978) , Development of photochemical activities in mesophyll and bundle sheath chloroplasts of C₄ and C₃ plants during seedling growth , Plant Science Letters, Elsevier,12,3-4,355-360.

48 RAGHAVENDRA, AGEPATI S., Das, VSR., (1978) , Photochemical characteristics of mesophyll and bundle sheath chloroplasts from C₄ plants , Physiologia Plantarum, Blackwell Publishing Ltd Oxford, UK,43,2,107-113.

47 Raghavendra, AS., Das, VSR., (1978) , Photochemical activities of chloroplasts isolated from plants with the C₄-pathway of photosynthesis and from plants with the Calvin cycle , Zeitschrift für Pflanzenphysiologie, Urban & Fischer,88,1,1-11.

46 Raghavendra, AS., Das, VSR., (1978) , Comparative studies on C₄ and C₃ photosynthetic systems: enzyme levels in the leaves and their distribution in mesophyll and bundle sheath cells , Zeitschrift für Pflanzenphysiologie, Urban & Fischer,87,5,379-393.

45 Raghavendra, AS., Das, VSR., (1978) , Photosynthetic carbon metabolism in leaves of

C4-and C3-plants: a detailed comparative study , Zeitschrift für Pflanzenphysiologie, Urban & Fischer,87,4,297-311.

44 Raghavendra, AS., Das, VSR., (1978) , Photochemical characteristics of mesophyll and bundle sheath chloroplasts from C4 plants [Setaria, Pennisetum, Amaranthus, millets, green and leafy vegetables] , Physiologia Plantarum (Denmark), ,,,.

43 Raghavendra, AS., Das, VSR., (1977) , Shifts in photosynthetic carbon labelling pattern by etiolated rice (*Oryza sativa* L.) seedlings during greening , New Phytologist, Blackwell Publishing Ltd Oxford, UK,79,1,89-94.

42 Raghavendra, AS., Das, VSR., (1977) , Effects of light quality on photosynthetic carbon metabolism in C4 and C3 plants: rapid movements of photosynthetic intermediates between mesophyll and bundle sheath cells , Journal of Experimental Botany, Soc Experiment Biol,28,5,1169-1179.

41 Raghavendra, AS., Das, VSR., (1977) , ASPARTATE-DEPENDENT ALANINE PRODUCTION BY LEAF DISCS OF AMARANTHUS PANICULATUS, AN ASPARTATE UTILIZING NAD-MALIC ENZYME TYPE C4 PLANT , New Phytologist, Blackwell Publishing Ltd Oxford, UK,79,3,481-487.

40 Rama, Das., Raghavendra, AS., (1977) , Kranz leaf anatomy and C 4 dicarboxylic acid pathway of photosynthesis in *Spinifex squarrosus* L , Indian Journal of Experimental Biology, ,15,8,645-648.

39 Raghavendra, AS., Das, VSR., (1977) , Endogenous photophosphorylation by mesophyll and bundle sheath chloroplasts from *Setaria italica* and *Amaranthus paniculatus* , Annals of Botany, Oxford University Press,41,173,667-669.

38 Raghavendra, AS., Das, VSR., (1977) , Comparative studies on C4 and C3 Photosynthetic systems: effect of metabolic inhibitors and biochemical intermediates on carbon metabolism , Zeitschrift für Pflanzenphysiologie, Urban & Fischer,85,1,9-16.

37 Raghavendra, AS., Das, VSR., (1977) , Antitranspirant Activity of Inhibitors of Cyclic Photophosphorylation , Journal of Experimental Botany, Soc Experiment Biol,28,2,480-483.

36 Das, VS Rama., Raghavendra, AS., (1977) , The Plurality of Carbon Pathway in Plant , Frontiers of Plant Sciences: Professor P. Parija Felicitation Volume on the Occasion of His Completing 85th Year, Professor P. Parija Felicitation Committee, Utkal University,,,57.

35 Raghavendra, AS., Das, VS., (1977) , Light-induced development of photosynthetic enzymes in etiolated detached leaves of *Oryza sativa* and *Setaria italica* during greening. , Indian journal of biochemistry & biophysics, ,14,3,272.

34 Chinthapalli, Bhaskarrao., Raghavendra, AS., Rishi, AS., (1977) , Phosphoenolpyruvate Carboxylase from C , , , ,.

33 Raghavendra, AS., Das, VSR., (1977) , Light-Enhanced Dark $^{14}\text{CO}_2$ Fixation by Leaves in Relation to the C4 Dicarboxylic Acid Pathway of Photosynthesis , Functional Plant Biology, CSIRO PUBLISHING,4,5,833-841.

32 Das, VSR., Rao, IM., Raghavendra, AS., (1977) , Mechanism of stomatal movement , Nature, Nature Publishing Group,266,5599,282-282.

31 Raghavendra, AS., Das, VSR., (1977) , Purification and properties of phosphoenolpyruvate and ribulose diphosphate carboxylases from C4 and C3 plants , Zeitschrift für Pflanzenphysiologie, Urban & Fischer,82,4,315-321.

30 Bhide, SV., Brahmachari, Bombay Dr SK., Chapekar, Bangalore Dr TN., Pental,

Deepak., Hegde, MV., Hegde, Poona Dr SV., Nath, Bangalore Dr Indira., (1977) , The editorial board wishes to place on record the valuable assistance rendered by the following scientists in reviewing manuscripts received for publication in the Journal of Biosciences. Dr. PR Adiga, Bangalore Dr. PM Ambadkar, Baroda , , , ,.

29 Obermeyer, Gerhard., Geitmann, Anja., Hepler, Peter K., Møller, Ian M., Sweetlove, Lee J., Fu, Hongyong., Lin, Ya-Ling., Fatimababy, AS., Ivanov, Rumen., Fobis-Loisy, Isabelle., (1977) , 363 Under pressure, cell walls set the pace , , , ,.

28 Sawhney, SK., Nicholas, DJD., Raghavendra, AS., Rao, IM., Das, VSR., Penel, C., Greppin, H., Boisard, J., Colman, B., Cheng, KH., (1977) , diatom *Nitzschia alba* by T. Okita, CW Sullivan and BE Volcani (La Jolla, Calif.)(Rec'd Dec. 4th , , , ,.

27 Raghavendra, Agepati S., (1977) , Bobba Sunil, Sai K. Talla, Vetcha Aswani , , , ,.

26 Raghavendra, AS., (1977) , Physiology of tress/e. by AS Raghavendra. , , , ,.

25 Sethuraj, MR., Raghavendra, AS., (1977) , Tree crop physiology/edited by MR Sethuraj and AS Raghavendra. , Developments in agricultural and managed-forest ecology; 18, , , ,.

24 Raghavendra, AS., (1977) , Biosynthesis and Modification of Starch By Genetic Engineering With Reference To Rice , , , ,.

23 Raghavendra, AS., Das, VSR., (1977) , Antitranspirant activity of inhibitors of cycle photophoshy lation , , , ,.

22 RAGHAVENDRA, AS., DAs, VS RAMA., (1977) , Department of Botany, Sri Venkateswara University, Tirupati 517502, Andhra Pradesh , , , ,.

21 Igamberdiev, Abir U., Raghavendra, Agepati S., (1977) , Mitochondrial Functions in the Light and Significance to Carbon-Nitrogen Interactions , , , ,.

20 Das, VSR., Rao, IM., Raghavendra, AS., (1976) , Reversal of abscisic acid induced stomatal closure by benzyl adenine , New Phytologist, Blackwell Publishing Ltd Oxford, UK,76,3,449-452.

19 Raghavendra, AS., Rao, IM., Das, VSR., (1976) , Characterisation of abscisic acid inhibition of stomatal opening in isolated epidermal strips , Plant Science Letters, Elsevier,6,2,111-115.

18 Raghavendra, AS., Das, VSR., (1976) , Distribution of the C₄ dicarboxylic acid pathway of photosynthesis in local monocotyledonous plants and its taxonomic significance , New Phytologist, Blackwell Publishing Ltd Oxford, UK,76,2,301-305.

17 Raghavendra, AS., Rao, IM., Das, VSR., (1976) , Adenosine triphosphatase in epidermal tissue of *Commelina benghalensis*: possible involvement of isozymes in stomatal movement , Plant Science Letters, Elsevier,7,6,391-396.

16 Das, VS Rama., Raghavendra, AS., (1976) , C₄ photosynthesis and a unique type of Kranz anatomy in *Glossocordia boswallaea* (Asteraceae) , Proceedings of the Indian Academy of Sciences-Section B, Springer India,84,1,12-19.

15 Rathnam, CKM., Raghavendra, AS., Das, VS Rama., (1976) , Diversity in the arrangements of mesophyll cells among leaves of certain C₄ dicotyledons in relation to C₄ physiology , Zeitschrift für Pflanzenphysiologie, Urban & Fischer,77,4,283-291.

14 Das, VSR., Rao, IM., Swamy, PM., Raghavendra, AS., (1976) , Suppression of the stomatal opening by morphactins in isolated epidermal strips , Plant and Cell Physiology, Jpn Soc Plant Physiol,17,1,77-82.

13 Raghavendra, AS., AS, RAGHAVENDRA., (1976) , DIVERSITY IN THE BIOCHEMICAL

AND BIOPHYSICAL CHARACTERISTICS OF C₄ DICOTYLEDONOUS PLANTS. , , , , ,

- 12 Raghavendra, AS., Das, VSR., (1976) , Inhibition of chloroplast photochemical reactions with 2-chloromercuri 4, 6-dinitrophenol , Archives of biochemistry and biophysics, Academic Press,175,1,355-356.
- 11 Raghavendra, AS., Rao, IM., Das, VSR., (1976) , Shrinkage of Guard Cell Chloroplasts in Relation to Stomatal Opening in *Commelina benghalensis* L. , Annals of Botany, Oxford University Press,40,168,899-901.
- 10 Raghavendra, AS., Das, VSR., (1976) , Phosphoenolpyruvate carboxylase from *Setaria italica*: Inhibition by oxalacetate and malate , Zeitschrift für Pflanzenphysiologie, Urban & Fischer,78,5,434-437.
- 9 Raghavendra, AS., Rao, IM., Das, VSR., (1976) , Replacibility of Potassium by Sodium for Stomatal Opening in Epidermal Strips of *Commelina benghalensis* , Zeitschrift für Pflanzenphysiologie, Urban & Fischer,80,1,36-42.
- 8 Das, VSR., Raghavendra, AS., (1976) , C₄ photosynthesis and a unique type of Kranz anatomy in *Glossocordia boswallaea* (Asteraceae)[India]. , Proceedings of the Indian Academy of Sciences, Sec B, , , , ,
- 7 Raghavendra, AS., AS, RAGHAVENDRA., VSR, DAS., (1976) , PHOTOCHEMICAL ACTIVITIES OF MESOPHYLL AND BUNDLE SHEATH CHLOROPLASTS FROM *EUPHORBIA HIRTA*, A DICOTYLEDONOUS C₄ PLANT. , , , , ,
- 6 RAGHAVENDRA, AS., AS, RAGHAVENDRA., IM, RAO., VSR, DAS., (1976) , CHARACTERISATION DE L'INHIBITION PAR L'ACIDE ABSCISSIQUE DE L'OUVERTURE DES STOMATES DANS DES FRAGMENTS D'EPIDERME ISOLE , , , , ,
- 5 Raghavendra, AS., Das, VSR., (1975) , Malonate-inhibition of allosteric phosphoenolpyruvate carboxylase from *Setaria italica* , Biochemical and biophysical research communications, Academic Press,66,1,160-165.
- 4 Das, VSR., Raghavendra, AS., (1974) , Role of cyclic photophosphorylation in the control of stomatal opening , Bull R Soc NZ, , , , ,
- 3 RAMA, DAS., AS, RAGHAVENDRA., (1974) , Control of stomatal opening by pyruvate metabolism in light , , , , ,
- 2 Das, VS Rama., Raghavendra, AS., (1973) , A screening of the dicotyledonous weed flora for the occurrence of C₄ dicarboxylic acid pathway of photosynthesis , Proceedings of the Indian Academy of Sciences-Section B, Springer India,77,3,93-100.
- 1 Raghavendra, AS., Das, VSR., (1972) , Control of stomatal opening by cyclic photophosphorylation , Cur Sci, , , , ,

Projects

Title	Year	Duration	Amount(In Lakhs)	PI/I
Modulation of Photorespiration by Oxidative Stress: Role of Oxygen and Reactive Nitrogen Species	2018	3	364800000000	Prof. A. S. Raghavendra
Redox constraints regulate photorespiration	2017	3.5	938200000000	Prof. A. S. Raghavendra
Engineering Photosynthesis in Mulberry for Resilience to Climate Change: A C ₄ Approach				

2017 4

233700000000

Prof. A. S. Raghavendra