

Name : Dr. G. C. ABRAHAM
Designation : Associate Professor & Vice Principal
Department : Botany
Date of Joining : 27/6/1988
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Educational Qualification:

DEGREE	SUBJECT	COLLEGE / UNIVERSITY & PLACE	YEAR COMPLETED
M.Sc	Botany	Madras Christian College, Tamilnadu.	1982-84 Outstanding grade
M. Phil	Botany(with specialization in Plant physiology)	Madras Christian College, Tamilnadu.	1982-84 First class
Ph.D	(Botany, Spln. Plant Tissue Culture)	Bharathiar University, Coimbatore, Tamilnadu.	1998

Specialization in Teaching: Plant Tissue Culture

International visits and projects

- Precepts and practices in American education: a report on Educational Administration Project carried out at Hope College, Holland-MI, USA, January 28-May 30, 2003
- My seven best observations on effective education. The UB Fellows Program Seminar, Yonsei University, Seoul, South Korea. 4-9 August.
- Faculty Governance Project- a study on academic administration in Macquaire University, NSW, Australia, March 20-June 10, 2004

Research Project Activities

- Micropropagation of medicinal /endemic/endangered tree species.
- Bioassay of plant growth substances and phytochemicals of agronomic and therapeutic interest
- Invitro studies on stress tolerance and resistance

Journal Publications

- Published research articles in Pollution research, Plant cell reports, Phytomorphology, Ecochronicle and Journal of Theoretical and experimental Biology. About 35 presentation in National and International conferences.(List appended).
- G. Grace Lydial Pushpalatha and G.C Abraham 2014 Changing Socio-Cultural Perspectives on the use of Phytotherapeutics. In Natural products : *Drug Development* (K. Tayung, A. Puratchikody and S. Ramakrishnan Ed.) Studium Press (India) Pvt Ltd. ISBN:978-93-80012-65-0.
- Dhansekarán,C., G.C Abraham and S. Moahn, 2014 Investigations of micro propagation on *Kigelia pinnata* D. C. International Journal of Pharmaceutical Chemistry and Biology V 4(2) 2014
- Dhansekarán,C., S. Mohan and G.C Abraham 2014 Preliminary Phytochemical and histochemical studies on *Kigelia pinnata* D. C. International Journal of Pharma Sciences and Research Vol5 (7) July, 2014.
- Dhansekarán,C., S. Mohan and G.C Abraham 2014 Evaluation of the Pharmacological potential of *Kigelia pinnata* D. C. Vol 5 August , 2014

Other Involvements

- Resource person for refresher courses in Botany conducted by Universities and departments of School and Collegiate studies in topics like plant Diversity, morphogenesis and plant tissue culture.
- Facilitation and consultancy for professional and academic tissue culture investigations.
- Passion for community care and developmental activities. As a former NSS officer, SCM Senior friend and founder, staff advisor for Blood Donors club and youth red cross motivated scores of students in activities stated above.
- Worked with curriculum planners, course developers and pedagogical experts in Australia and America and acquired training the said domains.
- As residential superintendent, academic councilor in career guidance and counseling looked at issues at close quarters and therefore gained experience in dealing with issues of youth.
- Course facilitator for IGNOU.

- Member of Board of studies and Board of Examiners in the colleges for various academic institutions in the state.
- Visited Hope college (Holland - MI, USA), Yonsei University (Seoul, S. Korea) & Mcquarie University, NSW, Australia, for training on faculty governance.

National and International Conference / Seminar

- Abraham, G.C. and Raman, K. (1986). Somatic embryogenesis in immature cotyledon of tea (*Camellia* spp.) VIth International Congress on plant tissue and cell culture. Presented as contributed talk by the latter in August 1986 (Abstract 294), IAPTC, University of Minnesota, Minneapolis-USA.
- Barnabas, A.D., Grace Lydial Pushpalatha, G. and Abraham, G.C. (1989). STPB- a potential growth regulator for tissue studies. In: Strategies in Physiological regulation of plant productivity, Indian Society in Plant Physiology, IARI, New Delhi, Dec.27-29.
- Abraham, G.C., Edwin, S. and Madhavan, S. (1991). Effect of Edifenphos on the growth and metabolism of the water fern *Azolla* Lam. Poll.Res. 10(2):117-122.
- Kannan, K., Jayakumararaja, R., Edwin, S. and Abraham, G.C.(1995). *In vitro* studies on the effects of paper plant effluent on growth of *Aulosira*. In: All India symposia on Algae in Human affairs. Seaweed Research and Utilization Association, American College, Madurai. Dec.27-29,1995.
- Jayakumarraj, R., Sarala, R., Thirumal Rajenderan, M., Anand, P.S. and Abraham, G.C. (1996) TIBA in aid of rapid shoot multiplication of *Catharanthus roseus*. In: Emerging trends in Organic Chemistry, Regional Research Laboratory (CSIR), Trivandrum. 15-19, Nov.1996.
- Grace Lydial Pushpalatha, G., Kannan, K., Barnabas, A.D. and Abraham, G.C. (1996) Can STPB substitute Plant Growth Regulators. Emerging trends in Organic Chemistry, Regional Research Laboratory (CSIR), Trivandrum. 15-19, Nov.1996.
- Ponsamuel, J., Samson, N.P., Ganeshan, P.S., Sathyaprakash, V. and Abraham, G.C. (1996). Somatic embryogenesis and plant regeneration from the immature cotyledonary tissues of cultivated tea (*Camellia sinensis*(L.) Kuntz.). Plant Cell Rep. 16:3-4.

- Abraham, G.C. (1996). Localization of somatic embryogenesis in tea tissue culture. In: The Second International Crop Science Congress, IARI, New Delhi, 17-24, Nov.
- Chidambaram, R. Sathrak, S., Balasaravanan, T., Barnabas, A.D. and Abraham, G.C. (1997). Seasonal variation alter the *in vitro* responses of *Vallaris* shoots. In: National seminar on recent advances in Plant Biotechnology (Sponsored by the University Grants Commission), VHNSN College, Virudhunagar, 26-27 March.
- Balasaravanan, T., Chidambaram, R., Sathrak, R.S., Barnabas, A.D. and Abraham, G.C. (1997). Histochemical observations on cultured somatic tissues of *Gymnema sylvestre* (Retz.). In : National seminar on recent advances in Plant Biotechnology (Sponsored by the University Grants Commission), VHNSN College, Virudhunagar, 26-27 March.
- Sathrak, R.S., Balasaravanan, T., Chidambaram, R., Barnabas, A.D. and Abraham, G.C. (1997). Hormonal regulation of *in vitro* shoot development in *Gymnema sylvestre* (Retz.). In : National seminar on recent advances in Plant Biotechnology (Sponsored by the University Grants Commission), VHNSN College, Virudhunagar, 26-27 March.
- Thirumal Rajendran, M., Sarala, R., Anand, P.S., Jayakumararaj, R. and Abraham, G.C. (1997). A revised procedure for *in vitro* cloning of Madagascar Periwinkle. In: National seminar on recent advances in Plant Biotechnology (Sponsored by the University Grants Commission), VHNSN College, Virudhunagar, 26-27 March.
- Jayakumararaj, R., Thirumal Rajendran, M., Sarala, R. and Abraham, G.C. (1997). Explant dependent variables in *in vitro* responses of Madagascar Periwinkle, an anti-leukemic plant source. In: International Conference on Frontiers in Biotechnology, Regional Research Laboratory(CSIR), Trivandrum, 26-29 November.
- Abraham, G.C., and Krishnamurthi, K.K. (1997). Propagation of biclonal tea seed progenesis by rapid proliferation of embryonal shoots. In: International Conference on Frontiers in Biotechnology, Regional Research Laboratory (CSIR), Trivandrum, 26-29 November.
- Abraham, G.C., Grace Lydial Pushpalatha, G. and Dayanandan, P. (1997). Glimpses of changing metabolic profile in developing seeds of commercial tea. In: International Conference on Frontiers in Biotechnology, Regional Research Laboratory (CSIR), Trivandrum, 26-29 November.
- Abraham, G.C.(1997) hormonal milieu for enhanced somatic embryogenesis in tea. In: International Conference on Frontiers in Biotechnology, Regional Research Laboratory (CSIR), Trivandrum, 26-29 November.

- Sivasankarai, M.P., Premalatha, S., Kalidasan, N. and Abraham, G.C. (1999) Embryo rescue and plant development in *Couropita guianensis* Aubl. In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December.
- Premalatha, S., Kalidasan, N., Sivasankarai, M.P. and Abraham, G.C.(1999) In vitro germination and plant recovery in *Kigelia pinnata* D.C. In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December.
- Kalidasan, N., Premalatha, S., Sivasankarai, M.P., Grace Lydial Pushpalatha, G. and Abraham, G.C. (1999) A technique to circumvent phenolic oxidation and browning of media. In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December.
- Grace Lydial Pushpalatha, G., Siva Guru, P., Sundari, V., Ramakrishnan, S. and Abraham, G.C. (1999). A cloning strategy for *in vitro* propagation of *Crescentia cujete* Linn. In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December.
- Ramakrishnan, S., Siva Guru, P., Sundari, V., Grace Lydial Pushpalatha, G. and Abraham, G.C. (1999). Alternate methods of regeneration in *Crescentia cujete* Linn. In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December.
- Abraham, G.C. and Grace Lydial Pushpalatha, G. (1999). Inulinase activity of *Kluyveromyces marxianus* in solid state fermentation . In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December.
- Palanisamy, A.L., Anantharaj, T. and Abraham, G.C. (1999) Patterns of callus development and redifferentiation in somatic explants of *Adansonia digitata* Linn. In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December
- Anantharaj, T., Palanisamy, A.L. and Abraham, G.C. (1999). The antiauxin (TIBA), Cytokinin (BAP) and its analog (adenine sulphate) steps up shoot proliferation in *Adansonia digitata* Linn. In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December
- Chidambaram, R., Balasaravanan, T. Shathrak, R.S. and Abraham, G.C. (1999) A *in vitro* cloning of the hypoglycemic plant *Gymnema sylvestre* (Retz.) R.Br. ex Romer and Shultz. In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December .

- Sarala, R. Anand, P.S., Thirumal Rajendran, M. Jeyakumararaj and Abraham, G.C. (1999) Production of microclones in shoot bud cultures of *Catharanthus roseus* (L) G.Don. In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December .
- Kannan, K., Senthilkumar, K., Priscilla felida, S. and Abraham, G.C. (1999) Observations on developmental responses of legumes in magnetic field. In: National Conference on Biotechnology: hitherto and henceforth, American College, Madurai, 28-30. December .
- Abraham, G.C. (2003) My seven best observations on effective education. The UB Fellows Program Seminar, Yonsei University, Seoul, South Korea. 4-9 August.
- Abraham, G.C. (2004) Best Practices in higher education in Australia, UB Fellows seminar, Christ College, Bangalore, India.17-19 September.
- Rachel Predeepa, J., Ranjith Kumar, S. and Abraham, G.C. (2004) Genotype dependent varieties in salt stressed *Gossypium hirsutum*L. In: National seminar on Rural Biotechnology for Sustainable development , GRI, Ganhigram, India. 21-22 February.
- Kannan, P. Gai Ebenenzer, G., Dayanandan, P., Abraham, G.C. and Igancimuthu, S. (2005) Large scale production of *Withania somnifera* (L.) Dunal using *in vitro* techniques, *Phytomorphology* 55: 259-266.
- Rajkumar, J., Uma Maheswarei, P., Fatima, S. and Abraham, G.C. (2006) *In vitro* studies on *Strychnos nuxvomica* L. In: Biotechnology Past , Present and Future, Clone fest, The Madura College 3-4 March.
- Thirulogachander, V. Gnanseker, K. and Abraham, G.C. (2006) Can Biophoton be novel device of biological experimentation to understand cells function and communication? In: Biotechnology Past , Present and Future, Clone fest, The Madura College 3-4 March.
- Fatima, S., Uma Maheswari, P. Rajkumar, J. and Abraham, G.C. (2006) Preliminary observations on embryo and cotyledon cultures of the medicinal *Hydnocarpus wightiana* Gertn. In: Biotechnology Past , Present and Future, Clone fest, The Madura College 3-4 March.
- Sivasankarai, B., Natarajan, K. Alexpandian, P. and Abraham, G.C. (2006) Biodiversity conservation through *in vitro* propagation. In: *Tribals, Forests and Future*, Centre for Social Studies, GRI, Gandhigram, India. 11.December.

- Ramakrishnan, S., Grace Lydial Pushpalatha and Abraham, G.C. (2006) Embryo rescue: an alternate method of plant propagation in *Crescentia cujute* L.. J.Theor. and Exp. Biol. 3: 35-41
- Sudha, M. Sivashankarai, B. and Abraham, G.C. (2007) Bioremediation of oil contaminated soils. In: International seminar on Opportunities and Challenges in Biotechnology. Vellalar College for women, Erode, India.22-23 February
- Rajalakshmi, K., Kannan, P., Grace Lydial Pushpalatha and Abraham, G.C. (2007) Cr mediated changes on *in vitro* morphogenesis of *Arachis hypogea* (L.) Eco-chronicle 2:33-40 My seven best observations on effective education. The UB Fellows Program Seminar, Yonsei University, Seoul, South Korea. 4-9 August.
- Went on air live in the *Gnyan* channel of the Doordarshan for delivering an hour lecture on *Somaclonal Variations* Under Science Promotion program of EMMRC center at Madurai Kamaraj University, Madurai, August, 2013
- Involved in the planning and the conduct of AIACHE sponsored National Youth Rally held at Bishop Heber College Trichy, between 27th and 30th December 2013.
- Represented American college as the Vice Principal at the TAMBARAM IMC PLATINUM JUBILEE CONFERENCE 1938-2013 held at Madras Christian college Tambaram, Chennai. December, 2013
- Participated in the Academic Planning and consultation Program for Student Enrollment in technical and engineering courses under DOTE held at Sathyabama University, Chennai. July, 2014
- Led the service learning team of the American college at the International Conference and workshop on Disaster Management for period of two weeks at ISL program at Central Philippine University Iloilo, Philippines between June 28th 2014 to 11th July, 2014.

Membership in professional bodies

- Served as a member of Board of Studies, Sri Meenakshi college for Women, Madurai 2011-13
- Served on the Board of Examiners for question paper setting and reviewing for The Department of Biology at Gandhi Gram University, Dindugal, Loyola college, Chennai, Bishop Heber College Trichy, Madras Christian college, Tambaram, Chennai. Since 2011
- UGC Sponsored lecture on Green Plant Evolution at Thiagarajar College, Madurai, November 2011

- Offered expertise on recruiting personnel for DST Project Evaluation of anticancer ad Anti RI Retrovirus Reverse transcriptase by using plant extracts of *Phyllanthus madrasatensis* September, 2011

Resource Person

- As resource person and a subject expert worked on curricula revision for B.Sc. Botany Program at Government College for Women 2012
- Trainer cum resource person in the Workshop on Plant Tissue Culture Techniques For scientists , University & College faculty and Research scholars across India in the UGC sponsored Networking Resource Centre Project operational at the School of Biochemistry Madurai Kamaraj University, Madurai September, 2012.
- Sitting member of the Animal Ethic committee at K.M.College of Pharmacy , Uthanudi, Madurai
 - Since 2012
- Served as a resource person and consultant on DBT sponsored Species respiration project at Department of Botany, Bharathidasan University, Trichirapalli July, 2012
- Offered consultancy and expertise in the scholar recruiting process in the DOE sponsored Plant tissue culture project at MS University, Alwarkurichi 2011
- Conducted a One Day Professional Orientation Program for newly recruited faculty, at the Seminar Hall of The American College, Madurai March, 2012
- Inaugurated the Association activities with a lecture on Mandate for Botanists in the Market World at VHNS college, Virudhunagar August 2012
- Presented a UGC lecture on Career options for Botanists at Government College for Woman at Pudukottai, November 2012
- Served as a Guest of honor and presented a *Keynote Address* ‘ Where, when and how Science meets technology? ‘ In state level Symposium in workshop on Trends In Technical Education at PSR college, Sivakasi. August 2012
- Delivered a=the keynote address on the Great Unification Of Life in the One day Seminar at --- College, Thiruchengodu November, 2012