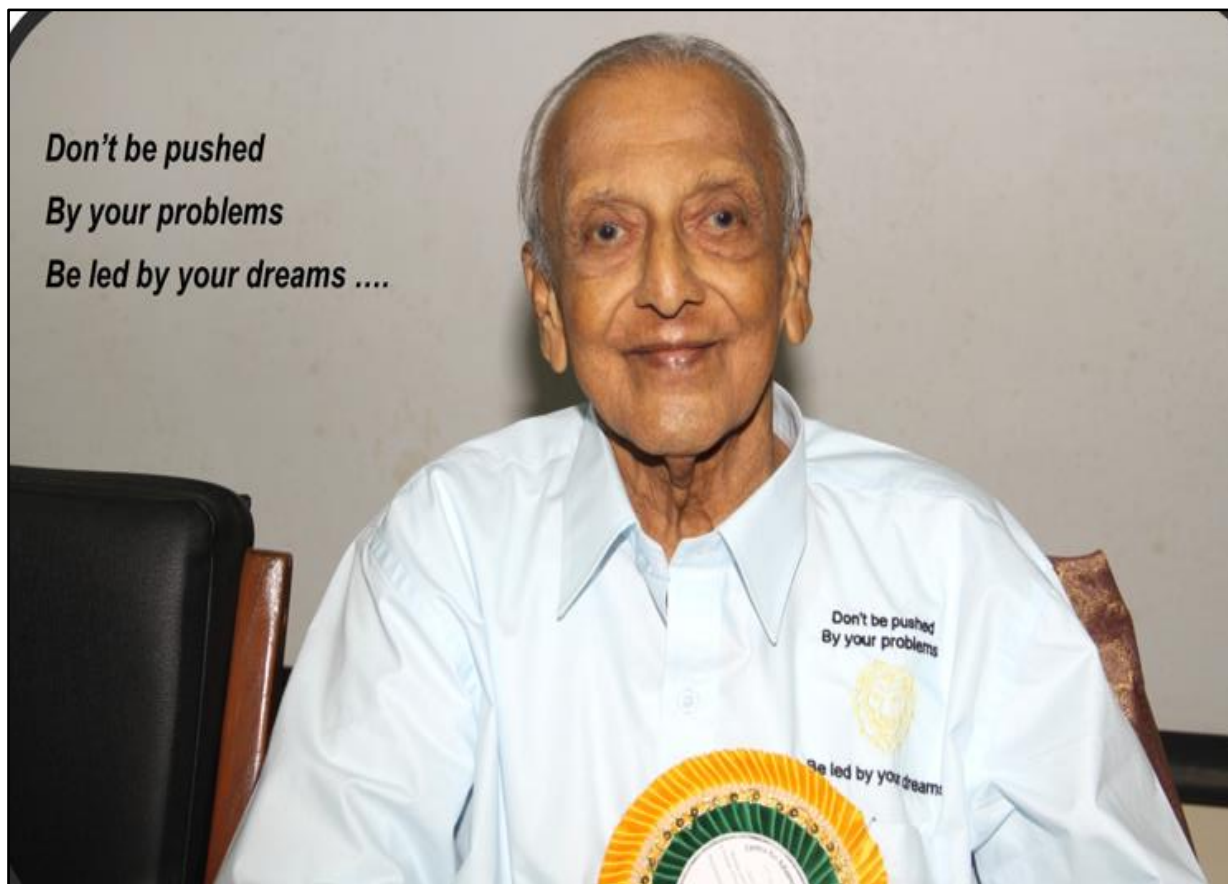


BIOGRAPHICAL SKETCHES OF PROF. C.V. SUBRAMANIAN**N. Raaman**

Centre for Advanced Studies in Botany, Former Secretary & Former President of Mycological Society of India, University of Madras, Guindy Campus, Chennai - 600 025, India.

Email: raaman55@gmail.com



Prof. C.V. Subramanian (August 11, 1924 – February 5, 2016)

Late **Professor Chirayathumadom Venkatachalaier Subramanian**, affectionately referred to as CVS, was an internationally renowned and most distinguished mycologist of our country. Professor Subramanian was 'a complete mycologist'. His knowledge of fungi extended much beyond the *Hyphomycetes*. He was one of the first to grasp the importance of 'diversity' studies in different ecological habitats and apply these in systematics of fungi. Late Professor Subramanian's academic distinctions to the growth of science of Mycology have been recognized both in India and abroad. In 2005, the then Director of CMI, Prof. Hawksworth referred to Prof. CVS as "**The Uncontested Father of Mycology**".

EARLY LIFE AND EDUCATION

C.V. Subramanian was born on 11th August 1924 in Ernakulam, Cochin State (now Kerala). CVS was only 11 years old when his father Mr. C.M. Venkatachaliar, a leading lawyer passed away. The young CVS was brought up and educated by his mother Mrs. T.D. Parvathi Ammal, to whom he later dedicated the massive volume, 'Hyphomycetes'. CVS had his early education at Sree Rama Varma High School, Ernakulam (1931-1939) and Maharajah's College, Ernakulam (1939-1941). He did B.Sc. (Hons.) with a first class and first rank and M.A. from the Presidency College, Madras (1941-1944). CVS later joined the Madras University Botany Laboratory (UBL) to work for his Ph.D.

Degree under the supervision of legendary Prof. T.S. Sadasivan. He was awarded Ph.D. Degree (1948) for his thesis on "Soil conditions and wilt diseases in plants with special reference to *Fusarium vasinfectum* Atk. on cotton". Subsequently he received the D.Sc. (1957) Degree from Madras University for his published work on "Floristic and taxonomic studies on Fungi Imperfecti".

PROFESSIONAL CAREER

Starting his career as a Senior Lecturer in Madras University in 1951, he was promoted to the post of Reader in 1953. Prof. CVS was appointed to the first ever chair in Plant Pathology in the country at IARI (Indian Agricultural Research Institute) at New Delhi in 1957 and he continued there up to 1960. He was invited in 1960 to organise the Botany Department of the University of Rajasthan at Jodhpur and Professor and Head of the Department of Botany till 1964. Subsequently, he moved to the University of Madras as Professor of Botany and later became Director of Centre for Advanced Study in Botany (1964 -1985), the post which he held until his retirement in 1985. Early in his career (1948-50), Professor CVS was recipient of an ICI research fellowship of the National Institute of Sciences of India (now, Indian National Science Academy) which enabled him to carry out a detailed work on soil Fusaria. At that young age, he attended the 7th International Botanical Congress in Stockholm in 1950 and visited several centers in Europe and discussed mycology with leading scientists. He did post-doctoral work on soil mycology, with S.D. Garrett, F.R.S., at the Botany School, Cambridge, and on taxonomic mycology with E.W. Mason, at the Commonwealth Mycological Institute, Kew, in the UK, during 1950-51. After retirement from University of Madras, he was invited as a Visiting Professor to the National University of Singapore, The University of Western Australia and The National University of Taiwan. He was also the Chairman of the Governing Body of the Birbal Sahni Institute of Palaeobotany and a Director of the Central Institute of Medicinal Plants, Lucknow.

SIGNIFICANT RESEARCH CONTRIBUTIONS

Prof. C.V. Subramanian's major contributions in mycology are on fungal floristics and taxonomy. Late Professor CVS's pioneering work on exploration of hyphomycete flora of India resulted not only in the discovery and description of

numerous new and interesting species of fungi but also eventually culminated in writing of the monograph *Hyphomycetes*, published by Indian Council of Agricultural Research in 1971. In this enduring work, Professor CVS named several new genera and new species of fungi in Sanskrit which were considered as a novel and bold step. Many of his associates and students followed the trend which highlighted the Sanskrit at the global level. Some of the Sanskrit generic names proposed by Professor CVS for fungi are *Angulimaya*, *Ashtaangam*, *Bahusaganda*, *Bahusandhika*, *Bahusakala*, *Bahusutrabeeja*, *Drumopama*, *Dwayabeeja*, *Dwayaloma*, *Koorchaloma*, *Kutilakesa*, *Lomachasaka*, *Nalanthamala*, *Paathramaya*, *Prathiigada*, *Prathoda*, *Tharoopama* and *Vakrabeeja*, etc.

Late Prof. C.V. Subramanian proposed a hierarchical system of classification in 1962 and refined the earlier concepts of conidiogenesis proposed by Costantin in 1880, Vuillemin in 1911, Mason in 1936 and Hughes in 1953. Realizing that conidium ontogeny and 'spore types' are true biological features, Professor CVS put forward a pragmatic system of classification of *Hyphomycetes*. He recognized and defined 6 basic spore types, viz. blastospore, gangliospore, porospore, phialospore, arthrospore and meristem arthrospore and made these spore types as the basis of 6 corresponding families, namely *Torulaceae*, *Bactridiaceae*, *Helminthosporiaceae*, *Tuberculariaceae*, *Geotrichaceae*, and *Coniosporiaceae*. He observed that, based on conidium ontogeny, the bulk of the genera of *Hyphomycetes* could be accommodated within these families. First proposed in 1962, he revised the hierarchical system of classification of *Hyphomycetes* in 1983, in his second book "HYPHOMYCETES: Taxonomy and Biology". Revision of graminicolous Helminthosporia taken up in 1958 by him resulted in a joint publication with B.L. Jain on the genus *Drechslera*, a position followed by M.B. Ellis in his treatment of the genus. However, later work led to segregation of the genus. Subramanian also published a monograph of the coelomycetous genus *Discosia*, jointly with K R C Reddy in 1974.

Jointly with G. Sekar, Late Professor Subramanian in 1990 wrote a monograph on the *Coronophorales* of India. From studies on freshly collected samples from

India and elsewhere Professor CVS recognized 14 genera, of which 12 in the Family *Coronophoraceae* (= *Nitschkiaceae*) and 2 in the *Bertiaceae*. He also worked on the Taxonomic reassessment of the genus *Sporidesmium*. Prof. Subramanian mentored 28 doctorate and several post-doctoral researchers on fungi, who are now spread all over the world. An active school of mycology grew around him at the Centre of Advanced study in Botany, University of Madras, which made significant contributions on fungal systematics, floristics, and ecology. Working in different parts of the country and abroad, his students excelled in their spheres and brought laurels to themselves and to the country.

Few of his most significant publications are listed below:

1. Subramanian, C.V. 1971. *Hyphomycetes*. Indian Council of Agricultural Research, New Delhi, 930p., 425 figures.
2. Subramanian, C.V. (Ed.) 1984. *Taxonomy of Fungi*. University of Madras, Madras, Part I, pp.1-304, 1978; Part II, pp.305-653.
3. Subramanian, C.V. 1983. *Hyphomycetes : Taxonomy and Biology*. Academic Press, Inc., London and New York 502p.
4. Agate, A.D., Subramanian, C.V., Vannucci, M. 1988. *Mangrove Microbiology: Role of microorganisms in nutrient cycling of Mangrove soils and waters*, UNESCO, New Delhi, 118p.
5. Subramanian, C.V. and Wasser, S.P. 2001. *Soil Microbiology of Israel*. A.R.A.Gantner Verlag K.-G., Ruggell, 420p., LXII Plates, 2001.
6. Subramanian, C.V. 1975. Hyphomycetology in retrospect and prospect. Presidential address, Botany Section, Proceedings 62nd session, Indian Science Congress, pp.53-78.
7. Subramanian, C.V. and Chandrashekara, K.V. 1977. *Beejasamuha* and *Sutravarana*, two new genera of coprophilous *Hyphomycetes*. *Canadian Journal of Botany*, **55**:245-253.
8. Subramanian, C.V. and Muthumary, J. 1979. *Massariothea* Sydow and *Paramassariothea* gen. nov. *Canadian Journal of Botany*, **57**:2422-2427.
9. Subramanian C. V. 1986. Excursions into Ascomycetology. Presidential Address. *Mycological Society of India Kavaka* **14**:1-8.
10. Subramanian, C. V. and Sekar, G. 1990. *Coronophorales* of India – A monograph. *Kavaka* **18**:19-90
11. Subramanian, C.V. 2015. The pursuit of Mycology in the Tropics: Recollections *Kavaka* **45**:1-102.

STRENGTHENING THE BASE OF TAXONOMY AND MYCOLOGY IN INDIA AND ASIA

Much before the Rio Summit 1991, CVS advocated *in situ* and *ex situ* conservation of fungal biological resources, establishment of culture repositories and trained manpower in fungal taxonomy, in the tropics. Establishment of the International Mycological Association Committee for Asia (presently, Asian Mycological Congress) with country-representatives from all Asian and South-East Asian countries, where Dr. CVS played a major role. Under his leadership, India conducted two meetings of the IMACA, so far. Prof. D.L. Hawksworth acknowledged the significant role played by Professor C.V. Subramanian in developing mycology in Asia in particular and at global level in general. The checkered academic journey by Late Professor C.V.S. is published in his own words as “The Pursuit of Mycology in the Tropics: Recollections” in *Kavaka* Volume 45th by Mycological Society of India in 2015. It was the personal appeal from Late Professor CVS to the former Prime Minister of India, Mrs. Indira Gandhi that led to abandonment of a hydroelectric project in the Silent Valley in the Western Ghats and conservation of the whole area as a bio-reserve. As President of the International Mycological Association (IMA) during 1977-1983, he secured a special status for Mycology in the International Union of Biological Sciences, at the General Assembly of the IUBS in Helsinki in 1979. As President of the IMA, Professor CVS was closely involved in the organization of IMC3 in Tokyo in 1983.



ESTABLISHMENT OF MYCOLOGICAL SOCIETY OF INDIA

Professor C.V. Subramanian, with a team of Mycologists in India, established the Mycological Society of India (MSI) in 1973, in the august presence of a galaxy of mycologists from India and abroad, during the International Symposium on 'Taxonomy of Fungi' held at the CAS in Botany, University of Madras. Professor CVS founded the journal KAVAKA (= Fungus, in Sanskrit), the Transactions of the Mycological Society of India, and also edited the journal since its inception till 1998. Fascinated by the beauty of *Amanita muscaria*, the 'fly agaric', Professor CVS incorporated the magenta colour of the mushroom as background of the cover page of the journal Kavaka. At present, there are more than 650 Life Members in the society. Till now 60 volumes of Kavaka have been published. MSI

publishes 4 issues of Kavaka from 2022. Till now 50 Annual Meetings have been conducted throughout the country spreading scientific knowledge. The happy occasion of 50th Annual Meeting – Golden jubilee Celebration of Mycological Society of India was Celebrated at Centre for Advanced Studies in Botany, University of Madras, Chennai during March 6 – 8, 2024.

AWARDS AND HONOURS

He was a recipient of many honours and awards which include the Pulney Andi Gold Medal of the University of Madras in 1944, Shanti Swarup Bhatnagar Award for Biological Sciences in 1965, Birbal Sahni Medal of the Indian Botanical Society in 1972, Rafi Ahmad Kidwai Prize of the ICAR in 1972-73, Jawaharlal Nehru Fellowship in 1976 and E.K. Janaki Ammal National Award for TAXONOMY by Government of India in

2000. He served as Vice President (1971-77) and President (1977-83) of the International Mycological Association, a rare distinction conferred on an Indian Mycologist. He was a member of the Executive Committee of the International Union of Biological Sciences (1979-82). He was a Corresponding Member of the Belgian Royal Academy of Foreign Sciences (1978) and an Honorary Member of the Mycological Society of America and the British Mycological Society. He was an elected Fellow of the Indian Academy of Sciences, Bangalore, the Indian National Science Academy (INSA), New Delhi, and the National Academy of Agricultural Sciences (NAAS), New Delhi. He was Chairman of the Editorial Board (Plant Sciences) of the Indian Academy of Sciences for

over a decade (1976-1988). The Centre for Advanced Studies in Botany, University of Madras organized a one-day National Seminar on "Biology and Application potentials of Fungi" on 11th August 2014 in honour of Prof. C.V. Subramanian on his 90th Birthday. In the same function, Mycological Society of India honoured Prof. C.V. Subramanian with the Lifetime Achievement Award which was instituted the Lifetime Achievement Award for first time. In the same function, Indian Phytopathological Society also honoured Prof. C.V. Subramanian with A.P. Misra Lifetime Achievement Award. Mycological Society of India honoured Prof. C.V. Subramanian by dedicating Kavaka Volume 42 to him on his 90th birthday.



Prof. C.V. Subramanian : Felicitations & Lifetime Achievement Award on his 90th. Birthday





**Prof. CV Subramanian & Mrs. Subramanian
Felicitation : CVS 90th. Birthday**

I joined the Centre for Advanced Studies in Botany for my doctoral studies during January 1978 under the guidance of Late Prof. K. Natarajan, who worked under Prof. CVS for his Ph.D. I had the opportunity to sit in the same room of Prof. K. Natarajan. During the period, Prof. C.V. Subramanian was the Editor of Kavaka and he used to give the corrected manuscripts to Prof. Natarajan to give to the printing press. Most of the time, I joined with Prof. Natarajan to the Amara Press, Adyar, Chennai to hand over the manuscripts. Once the proofs were received, Prof. Natarajan allowed me to help in proof reading and he gave me the opportunity to learn the art of proof correction. This experience of proof correction helped me later for correcting efficiently the Ph.D. theses of my students. As a member of MSI, I have attended several Annual Meetings of MSI and as a faculty of Centre for Advanced Studies in Botany, I have extended my cooperation in organising the Annual Meetings of MSI successfully at Centre for Advanced Studies in Botany. I served for MSI as Secretary from 2011

to 2022 and worked hard to take the MSI to newer heights. I was able to conduct the Annual Meeting of MSI in various parts of India and I thank all the organisers and all the Office Bearers and Members of MSI in taking the MSI to newer heights. During this period, several Awards were established in MSI with the help of good-hearted people. I thank all the donors for the establishment of Awards. I sincerely thank the MSI for electing me the President of MSI in 2023, a special year of Golden Jubilee of MSI.

MSI Members are selected for the following Awards Every year:

For Senior Scientists (Above 50 years)

1. Lifetime Achievement Award
2. Prof. K. R. Aneja Award for Lifetime Achievement Awardee
3. Prof. C.V. Subramanian Memorial Award
4. Dr. V. Agnihothrudu Memorial Award
5. Prof. K. Natarajan Memorial Award
6. Dr. S.K. Shome Memorial Award
7. Prof. P.C. Jain Memorial Award.

8. Prof. Geeta Sumbali Award for Women Scientists
9. Prof. P. Ramachar Memorial Award for Senior Mycologists

For Mid-Aged Scientists (36-50 years)

1. Prof. K.G. Mukerji Memorial Award for Mid-Aged Scientists
2. Prof. B.P.R. Vittal Memorial Award for Mid-Aged Scientists
3. Prof. J. Muthumary Memorial Award for Mid-Aged Women Scientists

For Young Researchers (up to 35 years)

1. Dr. M.J. Thirumalachar Memorial Merit Award for Young Mycologists
2. Dr. Mrs. Sushma Aneja Memorial Award for Young Researchers
3. Prof. T.N. Lakhanpal Award to Young Researchers for Fundamental Mycological Research
4. Prof. K. R. Aneja & Dr. Mrs. Sushma Aneja Award for Young Researchers for Poster Presentation

The last publication of Prof. C.V. Subramanian is **Subramanian, C.V. 2015. The pursuit of Mycology in Tropics: Recollections. Kavaka, 45:1-102.** I can recollect the voluminous Manuscript which Prof. CVS prepared at the age of 90 years. He meticulously prepared all the details. I had the opportunity to find out some of the very old References which Prof. CVS mentioned in the text of the manuscript. He was very keen in bring out as a print. He corrected the 102 pages of the Proof of his manuscript with utmost care. I am glad to share some of his emails to me in this regard.

On May 1, 2015, at 7:35 AM, **CV Subramanian** <cvsupra1952@yahoo.co.in> wrote:

Dear Professor Raaman,

I am writing this to you to wish you all the best in your trip to be with your kids and family in the US.

After a very busy and tiring time, you deserve a change. Enjoy the time with your family. My wife and I wish you and the family all the best.

Sincerely yours,

CVS

From: **Raman**

Nanjian <raaman55@gmail.com>

Date: Fri, May 1, 2015 at 12:16 PM

Subject: Re: Best Wishes

To: CV Subramanian

<cvsupra1952@yahoo.co.in>

Dear Sir,

Thank you for your and madam's good wishes. Pursuit to fungi will be as a separate volume of Kavaka Volume 45. Now Vol 44 is at final stage.

With regards

Prof. N. Raaman

On Aug 6, 2015, at 11:22 AM, **CV**

Subramanian <cvsupra1952@yahoo.co.in>

wrote:

Dear Professor Raaman,

Greetings!

I trust you and the family are well.

We have not been too well and we are advised not to stay in Chennai. We expect to leave for Thailand by the middle of this month to be with my younger son. It will be nice to see you before we leave for Thailand. Please let me know. Also, please tell me (date) when I can expect to see PURSUIT in print. Please be candid with me if there are any problems. Thank you.

Very best wishes,

CVS

From: **Raman**

Nanjian <raaman55@gmail.com>

Date: Thu, Aug 6, 2015 at 11:49 AM

Subject: Re: Greetings!

To: CV Subramanian

<cvsupra1952@yahoo.co.in>

Dear Sir,

Thank you for the mail. I will come and meet you in person.

With regards

Prof. N. Raaman

Later I went to his home and met him. He told me that he and his wife are going to Thailand on 24th August 2015. I told him that I am going to Mysore for a Conference, and I will send my students to help them in his house and in Chennai Airport. He sent a mail on his arrival to Bangkok.

On Aug 25, 2015, at 8:56 AM, **CV**

Subramanian <cvsupra1952@yahoo.co.in>

wrote:

Dear Prof Raaman,

We reached Bangkok safe and are settling down. Your students helped and saw us off at the

airport.

Trust you are back in Chennai and your Mysore trip went off well.

Keep in touch.

Very best wishes to you both from both of us,
CVS

From: **Raman**

Nanjian <raaman55@gmail.com>

Date: Tue, Aug 25, 2015 at 9:13 AM

Subject: Re: Reached safe

To: CV Subramanian

<cvsbra1952@yahoo.co.in>

Dear Sir,

Glad that you reached Bangkok safely. Yesterday night we came back from Mysore. Convey our regards to madam.

With regards

Prof. N.Raaman

On Nov 20, 2015, at 8:40 AM, **CV**

Subramanian <cvsbra1952@yahoo.co.in>

wrote:

Dear Professor Raaman,

Greetings!

In continuation of yesterday' mail, I am attaching a list of five References for inclusion in the list.

Regards, CVS

ATRI-20NOV

Berekeley, M J and Curtis M A 1868

Monotospora spharophoraIn Berkeley 1868 J Linn

Soc Bot 10 (no.46):360 [p.32]

Ellis M B 1957 Haplobasidion, Lacellinopsis, and Lacellina.Mycol. Pap. 67, 15 pp. [p.34]

Cash, E K and Watson, A J 1955 Some fungi on Orchidaceae. Mycologia 47(5):729-747 [p.35]

Rao, V and Rao, D 1972 Bahusandhika sundara .

V Rao and D Rao, Indian Phytopath.

25(2): 289

Ricky, M, Malhotra, G and Mukerji, K G 1975

Fungi of Delhi. XXIV.

Bahusandhika compacta sp.n. and

Endosporostilbe minuta sp.n. Rev de Mycol

38(3-4): 91-94 [p.35]

Dear Professor Atri,

Since sending you the list of missing References, I rechecked the list you sent me.

Kindly include the above five References to complete the list. Do let me know if you need any clarification. Thank you.

Regards,

C V Subramanian

From: **Raman**

Nanjian <raaman55@gmail.com>

Date: Fri, Nov 20, 2015 at 10:13 AM

Subject: Re: Missing References

To: CV Subramanian

<cvsbra1952@yahoo.co.in>

Dear Sir,

Thank you. I will send it to Prof. Atri.

Raaman

On 20-Dec-2015, at 8:40 AM, CV Subramanian <cvsbra1952@yahoo.co.in> wrote:

Dear Prof Raaman,

I trust you and Mrs Raaman both are well in Chennai after the rains and everything is back to nearly normal. How are they at the CAS? I trust your work is going on well.

Here, we are getting on as usual with occasional attention to health problems. We have been wanting to get back to Chennai but my sons dissuade me to get back there until conditions are better. I shall keep you informed.

All good wishes from Madam and myself,
CVS

From: **Nanjian**

Raaman <raaman55@gmail.com>

Date: Sun, Dec 20, 2015 at 4:22 PM

Subject: Re: Greetings!

To: CV Subramanian

<cvsbra1952@yahoo.co.in>

Dear Sir,

Thank you for your mail. Chennai is getting back slowly. Now there is no rain. Inform me once you decided to come to Chennai.

With regards

Prof. N. Raaman

On Dec 20, 2015, at 7:04 PM, **CV Subramanian** <cvsbra1952@yahoo.co.in> wrote:

My dear Raaman,

I am writing this to thank you have all you have done in seeing Pursuit in print. No words will be adequate for expressing my appreciation for your organizing skills and personal qualities.

We pray for your success now and always. affectionately,

CVS

From: **Raman Nanjian** <raaman55@gmail.com>

Date: Mon, Dec 21, 2015 at 6:37 AM

Subject: Re: Greetings!

To: CV Subramanian <cvsubra1952@yahoo.co.in>

Dear Sir,

Thank you for the nice words. I am happy that your experiences are Pursuit get in document as Kavaka Volume which is going to be released soon. I have taken steps for inclusion of MSI in IMA for the next 5 years.

With regards

Prof.N.Raaman

On Tue, Dec 29, 2015 at 2:18 PM, CV

Subramanian <cvsubra1952@yahoo.co.in> wrote:

Dear Professor Raaman,

Please see the mail to Prof Atri.

How are you and your wife?

Very Happy New Year to you.

My programme is unsettled. I shall keep you informed.

Regards,

CVS

--- On Tue, 29/12/15, CV **Subramanian**

<cvsubra1952@yahoo.co.in> wrote:

From: CV Subramanian <cvsubra1952@yahoo.co.in>

Subject: Pursuit

To: "Narinder Atri"

<fungalb2007@rediffmail.com>

Date: Tuesday, 29 December, 2015, 2:09 PM

Dear Professor Atri,

I suggested to you twice to publish the 2014 text WITHOUT ANY CHANGE. I am writing this to you again to do so.

Thank you.

Regards,

C V Subramanian

From: **Prof. Raaman** <raaman55@gmail.com>

Date: Tue, Dec 29, 2015 at 7:34 PM

Subject: Re: Fw: Pursuit

To: CV Subramanian <cvsubra1952@yahoo.co.in>

Dear Sir,

Thank you for the mail.

With regards

Prof. N. Raaman

On 17-Feb-2016, at 12:08 PM, **H.Y. Mohan Ram** <hymohanram@gmail.com> wrote:

Dear Dr. Raaman:

It was nice talking to you over the phone. I am a very close friend of Prof. C.V Subramanian, whose demise has caused me a deep anguish. He was not only a great mycologist and plant pathologist, he was interested in music and we had many occasion to meet and discuss many things other than plant sciences or mycology. As I had informed you, I have been asked by the Current Science Association to prepare an obituary and send a draft on or before 24th of February. Mr. Venkatachalam, son of Professor C.V Subramanian asked me to contact you for biographical details. I need a good glossy print of the portrait of Professor Subramanian and any other information which may be of interest to scientific community in general. I know you >are busy for the coming few days at Varanasi and Amritsar. I shall be grateful if you will >comply with my request.

Thanking you and with best regards.

H.Y Mohan Ram

From: **Nanjian**

Raaman <raaman55@gmail.com>

Date: Wed, Feb 17, 2016 at 12:13 PM

Subject: Re: Prof. C.V Subramanian's biography

To: H.Y. Mohan Ram

<hymohanram@gmail.com>

Dear Sir,

Thank you for your mail. I will send them as early as possible.

With regards

Prof. N. Raaman

From: **Nanjian**

Raaman <raaman55@gmail.com>

Date: Wed, Feb 17, 2016 at 3:22 PM

Subject: Re: Prof. C.V Subramanian's biography

To: H.Y. Mohan Ram

<hymohanram@gmail.com>

Dear Sir,

Prof. CVS passed away at Bangkok, Thailand on 5.2.2016.

I have sent some details in the earlier mails. If you need any other details, kindly inform me.

With regards

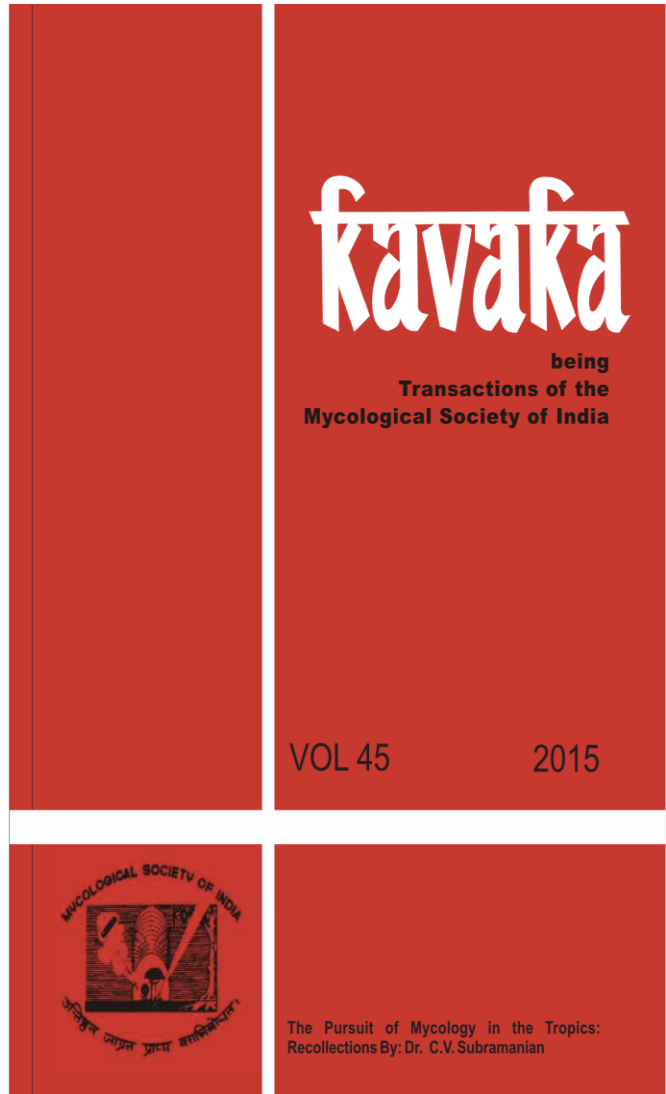
Prof. N. Raaman

Kavaka Vol. 45, 2015
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Printed by Shaheed-e-Azam Press (P) Ltd, Patiala 147001 (M) 098146-32807
Edited and Published for the Mycological Society of India by Professor N.S. Atri
Registered with the Registrar of Newspapers for India under No. R. Dis. 1757/74



I thank Prof. N.S. Atri, Former Editor-in-Chief, Kavaka and Prof. M. Sudhakara Reddy, Former Treasurer & present Secretary, MSI for their help in bring out the Prof. C.V. Subramanian's The pursuit of Mycology in Tropics: Recollections. The demise of Prof. C.V Subramanian on 5th February, 2016 is a great loss to Mycology fraternity. Even though Prof. C.V Subramanian is not with us, his fame will shine forever. Some of the members of MSI suggested for a name change for Kavaka, but the Mycological Society of India did not accept the suggestions, as the name KAVAKA was coined by Prof. C.V Subramanian. The Mycological Society of India rightly selected Rajasthan for **Prof. C.V. Subramanian Birth Centenary Celebration**. I thank the Organisers of Jai Narain Vyas University, Jodhpur, Rajasthan, particularly Prof. Praveen Gehlot for organizing the great event and my good wishes for the success of the event. I thank the

Mycological Society of India for entrusting me the **Editor of Prof. C.V. Subramanian Centennial Special Issue (Kavaka Volume 60 Special Issue, November 2024)**. My good wishes to Mycological Society of India and Kavaka to flourish to the Centennial Celebration in 2073.

ACKNOWLEDGEMENTS

I thank Mrs. Lakshmi Subramanian, wife of Prof. C.V Subramanian and sons of Prof. CVS, Mr. C.S. Venkatachalam and Dr. C.S. Seshadri for their inputs on Prof. C.V Subramanian. I thank Prof. N.S. Atri, Botany Department, Panjabi University, Patiala for his hard work. I wish to thank Prof. Rupam Kapoor, the Present Editor-in-Chief, Kavaka for her support for Kavaka. My sincere thanks to Ms. Pooja, Research Scholar of Prof. Rupam Kapoor, for her good service to Kavaka.