Prof. Dr. V. JAYATHIRTHA RAO

1. Who was your supervising tutor when you visited the University of Würzburg?

Prof. Dr. WALDEMAR ADAM, Institute of Organic Chemistry, Univ. Würzburg, Am Hubland, Würzburg.

2. We would be happy to get to know something about your academic/ professional career and it would be nice if you could describe your professional work in a few words.
"No LIGHT -- No LIFE" in same way "No LIGHT -- No Organic Photochemistry!!" I am trained as an organicchemist and organic photochemist.

3. Whats your image from India/EU? Like India Europe has History therefore it is rich with culture.

Do you have any experiences with the cultural differences of your home country and India/EU? We believe India is rich with family ties, family sentiments and family involvements!!! This is sometimes good and sometimes may not be - particularly in a scientific career.

What do you find most fascinating about it? The German way of completing a task is exceptional for me.

Do you have any experience regarding a scientific or economic exchange between India and the European Union? The Alexander von Humboldt Foundation, Indo German Nachkontakt Association (IGNA) of Hyderabad, Goethe Zentrum - Hyderabad and DAAD-India together arranged several Seminars/Symposia/Lectures during the past 20 years in Hyderabad, India. We (IGNA-Hyderabad) meet with families for Christmas get-together every year and for the past ~22 years. These two meetings stands for Scientific and Cultural values. RSC is also another organisation involved in conducting scientific meetings. IGNA-Hyderabad goes out to reach many school children in Hyderabad and conduct quiz programes about Germnay.

4. What do you think about the importance of Almuni in terms of the cultural, academical and economical exchange?
Alumni is expected to pay rich dividents interms of exchange. I feel German Youngsters particularly undergraduates can travel India to do a small project work of ~3 or 4 months duration. This will further develop strong interactions. The Indian DAAD and AvH Fellows (age group of 45 and above) can take up teaching of chemistry or any other subject to undergraduates in German Universities and this will provide a basis for interaction and can develop to a 3 or 4 months project work proposal for young German undergraduates. The youngsters are always adventures!! go for something new!!!

Scientist "F" Deputy Director, Organic Chemistry Division II, Indian Institute of Chemical Technology, Uppal Road Tarnaka, Hyderabad – 500607, India

Education:

Osmania University, Hyderabad, India, B.Sc.,(Botany, Zoology & Chemistry -Telugu Medium.) MALD-College, Gadwal	1973-76
Osmania University, Hyderabad, India, M.Sc.,Organic Chemistry	1976-78
Indian Institute of Science, Bangalore, India**, Ph.D**.	1978-83
University of Hawaii, Honolulu,USA, Post Doctoral Fellow	1983-84
Columbia University, New York, USA, Research Associate	1985-86
University of Wurzburg, Wurzburg, Germany, Alexander vonHumboldt Fellow	1987-88
Tulane University, New Orleans, USA, Sabbatical Leave	1996-97
Alexander vonHumboldt Fellow, Berlin, Germany	1998
Alexander vonHumboldt Fellow, Reinvitation, Cologne, Germany	2003
Advanced Techno Management Programme for Scientists (Administrative Staff College of India, Hyderabad – 6 Weeks DST, New Delhi, Sponsored Course)	2005
Univ. of Miami, Coral Gables, USA, Visiting Scientist	2006-07
Selected for Two Weeks Techno-Management Program Under the STIP Program of HARWARD University – DST Sponsored	2008

Experience:

Indian Institute of Chemical Technology, Pool Officer (Council of Scientific & Industrial Research, New Delhi, Govt. of India)	1988-89
Indian Institute of Chemical Technology, Scientist C	1989-94
Indian Institute of Chemical Technology, Scientist E-I, Asst. Director	1994-99
Indian Institute of Chemical Technology, Scientist E-II, Sr. Asst. Director	1999-04
Indian Institute of Chemical Technology, Scientist F, Deputy Director	2004

Membership of Scientific Societies:
Member of the Asian Photochemical Society 2002-Present
Member The Royal Society of Chemistry (London) – 2008 to Present
Life Member – Chemical Research Society of India
Life Member – Indo German Nachkontakt Association
Member American Chemical Society (Washington) 2009 to Present

Honors/Recognitions:
1.Best Performance Award of IICT – 1998
2.Visiting Scientist – Tulane Univ. New Orleans, USA – 1996-97
3.Alexander vonHumbold Re-invitation – 2003
4. BRONZE Medal from Chemical Research Society-India – 2004
5.Fellow of the Indian Chemical Society – 2005
6.Visiting Scientist – Univ. of Miami, Coral Gables, USA – 2006-07
7.Editorial Board Referee for ARKIVOC Online Journal – 2006
8.Fellow of the Andhra Pradesh Academy of Sciences – 2007
9.Associate Faculty and Course Coordinator to Establish New Born "National Institute of Pharmaceutical Education & Research", Hyderabad – 2007- ….
10.Gaurav Samman Puraskar – IICT – 2008

11.IICT Directors Appreciation Award – 2008
12.FRSC - Fellow of The Royal Society of Chemistry (London) - 2008
13.Alumni – University of Wurzburg, Germany - 2009
14.Alumni – Columbia University, New York, USA – 2009
15.Top Tier Reviewer Recognition - ACS Journal Organic Letters – 2010
16.Selected as Professor - Academy for Scientific & Innovative Research – Initiated by CSIR-New Delhi - 2011

Research Activities:

1. Synthesis of Heterocycles and Natural Products for Bio-evaluation
2. Organic Materials
3. Organicphotochemistry
4. Method Development for API
5. Organic chemical process development/Applied Research

Publications: ~180 (Research Papers + Patents + Processes)
Books: THREE Book Chapters and also Writing a Book

Career Achievements:
Technologies Developed:
(i) Gammaxin/BHC – the Gamma Isomer – as a Project Leader
(ii) Chlorpyriphos – as a Team member
Process Development: Over a Dozen Chemical Processes Developed
Several Overseas Projects Dealt
23 Ph.D. and 32 Masters Students Trained.
Presently 16 PhDs and 8 Master Students are working

Affliations:

Notable Contributions:
Concept of Highly Polarized/Chargetransfer/Zwitterionic Excited State is introduced through basic research.
Organic photochemical process development demonstrated and technology transferred.
Established a strong organic photochemistry laboratory at IICT.

The role of concept Highly Polarized/Chargetransfer/Zwitterionic Excited State is elegantly demonstrated by making organic materials having optical applications like (i) Non Linear Optics; (ii) Solar Cells; (iii) Organic Light Emitting Devices; (iv) Organic Near Infrared Absorbing Dyes.
Involved in contributing towards pesticide process development and technology.
New Chemical Entities synthesized using "scaffold based" and "structure based" approach having agrochemical and pharmaceutical importance – synthesis of heterocycles.
Contributed to strategic materials process development and evaluation -- photoresists.
Involved as team member in Organization for Prohibition of Chemicals of Warfare (OPCW) project and IICT is Globally recognized for this activity.
Sucessfully completed overseas projects.
Initiated research on worlds emerging technologies like (i) Organic Solar Cells and (ii) Organic Light Emitting Devices.

No. of Ph.D. Students Guided:

1. A. Mahipal Reddy , Ph.D. Student-Completed- Canadian Immigrant
2. V. Raj Gopal, Ph.D .Student-Completed -US Immigrant
3. K. Mani Bushan, Ph.D.Student-Completed- Project Leader-GVK Bio-Tech, Hyderabad)
4. G. Venugopal Rao, Ph.D.Completed--SAI Biosciences--Hyderabad
5. Majjigapu Janaki Ram Reddy—Ph.D.Completed--US Immigrant
6. Maruthi Janaki Ram Reddy –Ph.D. Completed- Project Leader-Heterodrugs, Hyderabad
7. B. Gangadasu –Ph.D. Completed, Working in USA
8. K. Srinivas, Ph.D. -Joint Student—Completed—Faculty, Asst. Prof. NIPER-Hyderabad
9. P.Narender - Ph.D. Completed – Working in USA, US Immigrant
10. U. Srinivas, - Ph.D. Completed-Working in Taiwan-GVKBio-Hyderabad-Proj.Leader
11. Ch.Ramesh (Tech. Asst.-IICT)- Ph.D. Completed – Working in USA
12. V.Venkat Reddy – Ph.D. Completed; Working in USA
13. Ch. Srinivas – Ph.D. Student – Completed – Working in USA
14. P. Arun Kumar – Ph.D. Student – Completed- Working in Singapore
15. Mr. P. Avinash – Writing Ph.D. Thesis (Joint Student)-Asst.Prof., Nanded
16. Ch. Prabhaker – – Ph.D. Student (Joint Student)– Completed- Working in Taiwan
17. Kola Srinivas - Ph.D. Student (Joint Student) –Completed - Working in USA
18. M. Ananth Reddy - Ph.D. Student (Joint Student) - Submitted Ph.D. Thesis
19. M. Ravinder – Submitted Ph.D. Thesis
20. S. Bharat Kumar – Writing Ph.D. Thesis
21. B. Ananda Rao - Ph.D. Student (Joint Student) Writing Thesis
22. ChNSSaiPavan - Ph.D. Student - Writing Thesis

23 Mrs. Vijaya - M. Pharma. Ph.D Collaborative Student, Kakatiya Univ. Completed-

Research Associates/Post Doctoral Fellows:

1. Dr. T. Soujanya, CSIR-Res. Associate-Completed-Faculty of IICT
2. Dr. E. T. Ayodele, TWAS-Res. Associate-Completed- Nigerian Univ. Faculty
3. Dr. Sunday Olusegun – TWAS – CSIR Fellow – 2009 – Job at Nigerian Univ.
4. Dr.V.Raj Gopal, CSIR- Research Associate – Presently US Immigrant
5. Dr. O.M.Olabemiwo – TWAS Research Associate – 2010-11

Present Ph.D. Students in Progress

1. Mrs. K. Lavanya Devi – PhD Student and will be Completing Soon

2. Mr. Partha Sarathi Sadhu, – PhD Student and will be Completing Soon
3. Ms. A. Santoshi – Present PhD Student
4. Mr. E. Srihari – Present PhD Student
5. Mr.Sri Ram - M. Pharma. Ph.D. Collaborative Student- 2009, Kakatiya Univ.
6. Mr. T. Narendar Reddy- Present Ph.D. Student
7. Mr. B. Mahendar - Present Ph.D. Student
8. Mr. G. Mallesham - Present Ph.D. Student(Joint Student)
9. Mr. S. Naveen Kumar - Present Ph.D. Student
10. Mr. G. Sivakumar - Present Ph.D. Student (Joint Student)
11. Mr. V. Ramesh - Present Ph.D. Student
12. Mr. T. ParamaSivam - Present Ph.D. Student (Joint Student)
13. Mr. S. Ram Kumar - Present Ph.D. Student (Joint Student)
14. Mr. K. Raghavachary – Collaborative Ph.D. Student , Kakatiya Univ.
15. Mr. T. Srinivas - Present Ph.D. Student (Joint Student)
16. Mt. K. Ram Kumar - Present Ph.D. Student (Joint Student)

Students guided for their project assignments for PG Courses like M.Sc./M.Pharm./MSPharmetc.

1. Mr.P. Nageshwar Rao, M. Pharma. Student – Completed-SUVEN Chemicals-Hyderabad
2. MrK .Viswanath, M. Sc. Student –Completed- SUVEN Chemicals-Hyderabad
3. MrSujan Kumar, M. Pharma. Student- Completed – RANBAXY- Chandigarh
4. MrK.Narshimha Rao, M.Sc. Student – Completed – CSIR/UGC -- JRF
5. MrP.A. JaiDev, M.Sc. Student – Completed – working for PhD in USA
6. MrG. Archana, M.Sc. Student – Completed-Teaching Chemistry
7. Mr. Sai Aneesh, BSc-MSc Integ.Course Student-Completed
8. Mr. Akki Bhasker M.Sc.(IIT-Madras) Student – Completed
9. Mr. G. Sudeeker – M. Sc. Student – Completed
10. Mr. E. Madhusudan - M. Sc. Student – Completed
11. Mr. Surya Jagadeesh, M. Pharma. Student- Completed, Joined Pharma Industry
12. Mr. Kamesh, M. Sc. Student – Completed,
13. Mr R.Jayachandra, M. Sc. Student – Completed- Helvetica Labs, Hyderabad
14. Mr. G.Srinivasa Rao, M. Pharma. Student- Completed, Joined as Lecturer
15. MrRakesh Soni – NIPER – MS Pharm Student-Completed -Job at NOVARTIS
16. MrAnil Kumar – NIPER – MS Pharm Student-Completed -Teaching Job
17. MrVinod Kumar - – NIPER – MS Pharm Student-Completed - Teaching Job
18. Ms. Rahath Nazneen - MSc Student-Completed -Job at GVK Bio,Hyderabad
19. Mr. Naveen Kumar- M. Pharma. Student- Completed- Working for Orchids,Chennai
20. Mr. Jai Dev - M. Pharmacy Student- Completed – Joined Reddy Labs
21. Mr Manikanta - M. Pharmacy Student- Completed- Joined Orchids
22. Ms.Kirthi - MSc Student-2010-Completed - Teaching at Local College
23. Ms. Aruna Sri - MSc Student-2010-Completed - Teaching at Local College
24. Ms. D.Vijaya – MSc Student – Completed – 2009 – Teaching at Local College
25. Mr. Rathod - MSc Student- Completed – Chemist at Reddy Labs, Hyderabad
26. MrDusmant Kumar Parida - NIPER – MS Pharm Student
27. MrRavinder Chachia - NIPER – MS Pharm Student

Present MSc/MPharmacy/MSPharm …Students:

1. Mr.Pankaj Sharma – NIPER MS Pharm Student
2. Ms. Archana Yadav - NIPER MS Pharm Student
3. Ms. Rupali Mahajan - NIPER MS Pharm Student
4. Ms. Priya Pandey - NIPER MS Pharm Student
5. Mr.ABNNageswar Rao – Mpharmacy Andh.Univ Student
6. Mr.PMahesh – MPharmacy, Osmania Univ. Student
7. Mrs. DSuchitra – MPharmacy, Osmania Univ. Student
8. Ms. SHamsini – MPharmacy, Osmania Univ. Student

List of Publications Covering the Period 2001 to 2010

(1) Ch. Prabhakar, K. Bhanuprakash, V. Jayathirtha Rao, M. Balamuralikrishna and D. Narayana Rao
Third Order Nonlinear Optical Properties of Squaraine dyes having absorption below 500 nm: A Combined Experimental and Theoretical Investigation of Closed shell Oxyallyl Derivatives
J. Phys. Chem. C, **2010,** 114, *6077.*

(2) Mettu Ravinder, Partha Sarathi Sadhu, Amlipur Santhoshi, Puli Narender, Gundi- mella Y. S. K. Swamy, Krishnan Ravikumar and Vaidya Jayathirtha Rao Synthesis of New Aminonicotinate Derivatives from Acetylated Baylis-Hillman Adducts and Enaminoesters via a Consecutive [3+3] Annulation Protocol
Synthesis, , **2010,** 573.

(3) Perepogu Arun Kumar, Uppalanchi Srinivas and V. Jayathirtha Rao
Cation enhanced *trans-cis* photoisomerization in lariat azacrown ethers
Current Organic Chemistry, *,* **2010,** *14,* 1127.

(4) Anil B. Naik, L.R.Naik, J.S.Kadadevarmath, H.Pal and V.Jayathirtha Rao,Fluorescence Quenching of Anthrylvinyl acetate by Carbontetrachloride
J.Photochem.Photobiol. A, **2010 ,** *214,* 145.

(5) P.Nageswar Rao, Jaswant Kumar Inamadugu, Ramesh Mullangi, K.Vijay Kumar, V.Jayathirtha Rao and J.V.L.N.Seshagiri Rao, Simultaneous Determination of Atorvastatin, Amlodipine, Ramipril and Benzapril in Human Plasma by LC-MS/MS Application to a Human Pharmacokinetic Study
Biomedical Chromatography, **2010:** DOI 10.1002/6mc.1462

(**6)** Chiguru Srinivas, Chebolu Naga Sesha Sai Pavan Kumar, Bhimapaka China Raju and Vaidya Jayathirtha Rao,
An Efficient Stereoselective Approach for the Synthesis of (+)-(4*S*,5*S*)-Muricatacin
Helv. Chim.Acta 2010 DOI 10.1002/hlca.201000291

(7) Arun Kumar Perepogu , D. Raman, U.S.N. Murty, Vaidya Jayathirtha Rao,
Stereoselective synthesis of (+)-nephrosteranic acid - by ring-closing metathesis approach and its biological evaluation
Synthetic Communications, **2010***, 40,* 648*.*

(8) M. Ananth Reddy, Anup Thomas, Kola Srinivas, V. Jayathirtha Rao, K. Bhanuprakash, B.Sridhar, Arunandan Kumar, M. N. Kamalasanan, and Ritu Srivastava,
Synthesis and characterization of 9,10- bis(2-phenyl-1,3,4-oxadiazole) derivatives of anthracene: Efficient n-type emitter for organic light-emitting diodes.
J.Mater.Chem., **2009,** *19*, 6172.

(9) Kola Srinivas, K.Yesudas, K.Bhanuprakash, V.Jayathirtha Rao, L.Giribabau,

A Combined Experimental and Computational Investigation of Anthracene Based Sensitizers for DSSC: Comparison of Cyanoacrylic and Malonic Acid Withdrawing Groups Binding on to TiO2 Anatase (101) Surface
J.Phys.Chem.C, **2009**, 113, *20117.*
(10) B. Gangadasu, M. Janaki Ram Reddy, M. Ravinder, S. Bharat Kumar, B. China Raju, K. Pranay Kumar , U. S. N. Murthy , V. Jayathirtha Rao
Synthesis, photochemical E (*trans*) → Z (*cis*) isomerization and antimicrobial activity of 2-chloro-5-methylpyridine-3-olefin derivatives
Eur.J.Med.Chem., **2009,** *44,* 4661.
(11) Partha Sarathi Sadhu, Mettu Ravinder, Perepogu Arun Kumar and Vaidya Jayathirtha Rao,
Photochemical dehydrogenation of 3,4-dihydro-2-pyridones
Photochemical and Photobiological Sciences, **2009,** *8*, 513.
(12) Mettu Ravinder, Partha Sarathi Sadhu and Vaidya Jayathirtha Rao,
Simple, facile and one-pot conversion of the Baylis–Hillman acetates into 3,5,6-trisubstituted-2-pyridones
Tetrahedron Letters, **2009,** *50*, 4229*.*
(13) Ch. Srinivas , Ch. N. S. Sai Pavan Kumar , B. China Raju , V. G. M. Naidu , S. Ramakrishna , Prakash V. Diwan ,V. Jayathirtha Rao,
First stereoselective total synthesis and anticancer activity of new amide alkaloids of roots of pepper
Bioorganic & Medicinal Chemistry Letters, **2009,** *19,* 5915*.*

(14) Anup Thomas. K. Srinivas, Ch. Prabhakar, K. Bhanuprakash and V. Jayathirtha Rao,
Estimation of the first excitation energy in diradicaloid croconate dyes having
absorption in the near infra red (NIR): A DFT and SF-TDDFT study.
Chem. Phys. Lett. , **2008,** *454*, 36.
(15) Arun Kumar Perepogu , D. Raman, U.S.N. Murty, Vaidya Jayathirtha Rao
Concise synthesis of stagonolide-F by ring closing metathesis approach and its biological evaluation
Biorg.Chem., , **2009,** 37*,* 46.
(16) Chebrolu Lavanya Devi ,Oladoye Sunday Olusegun, Chebolu Naga Sesha Sai Pavan Kumar, Srinivasan Palaniappan,Vaidya Jayathirtha Rao.
Novel Combination of Sodium Borohydride and Reusable Polyaniline Salt Catalyst for Rapid and Efficient Reductive Amination of Carbonyl Compounds
Catal Lett, **2009,** *132*, 480.
(17) Puli Narender, Mettu Ravinder, Partha Sarathi Sadhu, Bhimapaka China Raju, Chilukuri Ramesh and Vaidya Jayathirtha Rao,
Synthesis of Substituted 1,8-Naphthyridine-3-carboxylates from *Baylis-Hillman* Adducts of Substituted 2-Chloronicotinaldehydes
Helv.Chimica Acta, **, 2009***, 92*, 959*.*
(18) Avinash L. Puyad, Ch. Prabhakar, K. Yesudas, K. Bhanuprakash, V. Jayathirtha Rao,
High-level computational studies of Rhodizonate derivatives: Molecules absorbing in near infrared region due to larger C–C–C angle of the oxyallyl ring
Journal of Molecular Structure: THEOCHEM, **2009,** *904*, 1*.*
(19) Chebolu Naga Sesha Sai Pavan Kumar, Chiguru Srinivas, Partha Sarathi Sadhu, Vaidya Jayathirtha Rao and Srinivasan Palaniappan,
Efficient Synthesis of 14-Substituted-14-H-Dibenzo[a,j]Xanthenes Using Silica Supported Sodium Hydrogen Sulfate or Amberlyst-15 Catalyst
J.Heterocyclic Chem. **2009,** *56,* 997*.*
(20) B.Gangadasu, B.China Raju and V.Jayathirtha Rao,

Synthesis of Imidacloprid Analogues from Novel Chloronicotinaldehydes
J.Heterocyclic Chem. **2009,** *46,* 1213.

(21) B.V.V.S. Jagadeesh, S. Satyanarayana Raju, J.V.L.N. Seshagiri Rao, V. Jayathirtha Rao
Reverse phase HPLC analysis of Atomoxetine in pharmaceutical dosage forms.
Asian Journal of Chemistry, . **2009***, 21,* 829*.*

(22) Ch. Prabhakar, K. Yesudas, K. Bhanuprakash, V. Jayathirtha Rao, R. Sai Santosh Kumar and D. Narayana Rao
Linear and Nonlinear Optical Properties of Mesoionic Oxyallyl Derivatives: Enhanced Non-Resonant Third Order Optical Nonlinearity in Croconate Dyes
J.Phys.Chem., **2008,** *112, 13272*

(23) C.N.S.Sai Pavan Kumar, Ch.Lavanya Devi, V.Jayathirtha Rao, S.Palaniappan,
Use of Pyridiniumchlorochromate and Reusable Polyaniline Salt Catalyst Combination for the Oxidation of Indoles
SYNLETT, **2008,** 2023.

(24) Ch.Srinivas, Ch.N.S.Sai Pavan Kumar, V.Jayathirtha Rao and S. Palaniappan,
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Catalysis Letters, **2008,** *121*, 291.

(25) M. Srinivasa Rao, U.S.N. Murty, B. Gangadasu, B. China Raju, C.H. Ramesh, S. Bharat Kumar and V. Jayathirtha Rao
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(26) Ch.Srinivas, Ch.N.S.Sai Pavan Kumar, V.Jayathirtha Rao and S. Palaniappan
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(27) U.Srinivas, Ch. Srinivas, P. Narender, V. Jayathirtha Rao and S. Palaniappan
Polyaniline-sulfate salt as an efficient and reusable catalyst for the synthesis of
1,5-benzodiazepine and benzimidazole derivatives
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(28) Kola Srinivas, Ch. Prabhaker, C. Lavanya Devi, K. Yesudas, K. Bhanuprakash and V.Jayathirtha Rao,
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Absorption: A Comparative Study of the Squaraine and Croconate Dyes Using
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(29) G.Y.S.K. Swamy, K. Ravikumar, P. Narender and V. Jayathirtha Rao,
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(30) M. Janaki Ram Reddy, P. Arun Kumar, U. Srinivas, V. Venkat Reddy, Maruthi Janaki Ram Reddy, G. Venugopal Rao and V.Jayathirtha Rao,
Wavelength Dependent Regioselective $E \rightarrow Z$ Isomerization of 9-Anthryldiene Derivatives
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(31) G.Y.S.K. Swamy, K. Ravikumar, P. Narender and V. Jayathirtha Rao, Crystal Structure of an Adduct: 2,3,5-Substituted Derivative of Pyridine
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(32) G.Y.S.K. Swamy, K. Ravikumar, P. Narender and V. Jayathirtha Rao
Ethyl-3-(2-chloro-5-methyl-3-pyridyl)-3-hydroxy-2-methylenepropanoate
Acta Cryst , **2007,** E63, 2188.

(33) *G.Y.S.K. Swamy, K. Ravikumar, P. Narender and V. Jayathirtha Rao,*
Methyl-6-chloro[5-hydroxy(5-oxocyclopent-1enyl)methyl]pyridine-2-carboxylate
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NLO Activity in some non-conjugated 3D triazine derivatives: a non-centrosymmetric crystal through conformational flexibility
J. Mater.Chem., **2006,** *16*, 496.
(35) K. Srinivas, U. Srinivas, K. Bhanuprakash, K. Harakishore, U. S. N. Murthy, and V. Jayathirtha Rao
Synthesis and Antibacterial Activity of Various Substituted s-Triazines
Eur. J. Med. Chem., **2006,** *41,* 1240.
(36) B. Gangadasu, P. Narender, S. Bharath Kumar, M. Ravinder, B. Ananda Rao, Ch. Ramesh, B. China Raju and V. Jayathirtha Rao
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J. Phys. Chem. A **2006,** *110,* 11717.
(39) P. Raghunath, M. Ananth Reddy, C. Gouri, K. Bhanuprakash and V. Jayathirtha Rao,
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(44) B.Gangadasu, S.Palaniappan, C.A.Amarnath and V.Jayathirtha Rao
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(45) B Gangadasu, P Narender, B China Raju and V Jayathirtha Rao,
Calcium chloride catalyzed three component, one-pot condensation reaction: An efficient synthesis of 3,4-dihydropyrimidin-2(1*H*)-ones

Ind. J. Chem. B, **2006,** *45*, 1259.
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Methyl-(2-chloro-5-ethyl-3-pyridyl)-3-hydroxy-2-methylenepropanate
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