

# Descriptive Biodata of Dr.S.G.Prakash Vincent



**Dr. S. G. PRAKASH VINCENT M.Phil. Ph.D (Indo-German)**

DAAD Fellow (Germany)

EMBO Fellow (Germany)

UNESCO Fellowship Awardee (Italy)

MARIECURIE Fellow (European Commission)



**Focal Point  
European Commission**



**Chairman Associate (India )**

## **Current Position**

Dr.S.G.Prakash Vincent

Associate Prof. & Coordinator

International Centre for Nanobiotechnology (ICN)

Manonmaniam Sundaranar University

Kanyakumari, TN. INDIA

Dr.S.G.Prakash Vincent is designated as Chairman Associate of BRICS Biomed Cooperation in 2014. He is also serving as FOCAL POINT of European Commission for its HORIZON 2020 (2014-2020) research funding programme to foster Indo-EU collaborations. H2020 has a funding budget of 70 Billion Euros. He is the Coordinator & Associate Prof. of International Centre for Nanobiotechnology (ICN), Manonmaniam Sundaranar University, Tamilnadu, India. He is a DAAD Fellow, EMBO Fellow (World Programme), MARIECURIE Fellow (European Commission) and UNESCO Biotechnology Fellowship Awardee. Had his research and training undergone in four Universities and two research centres in Europe, in total for a period of five years, since 1994. He was part of the Indian Scientific delegation to visit Sofia Antipolis Research Park, Niece, France in 2004. He undertook his Mariecurie IIF project at European Molecular Biology Organisation, Heidelberg, Germany from 2004 to 2006. His area of work is Drug Discovery. He has guided six Ph.D scholars. He has 35 publications, four books and delivered about 40 invited lectures in Nanobiotechnology/Functional Genomics/Transgenics etc. He had organized European Molecular Biology Organisation (EMBO) sponsored world practical course on 'DNA Microarray-Analysis and Applications' two times in India. Through this programme ICN has alumni of 17 Nationalities.

## *Four Prestigious International Fellowships received*

The logo for DAAD (German Academic Exchange) features the word "DAAD" in a bold, blue, sans-serif font.

**DAAD Fellow**  
Germany

### **1. DAAD Fellow (Biotechnology), 1994**

German Academic Exchange Fellow, selected by DAAD, Bonn, Germany and Ministry of Human Resource Development (MHRD), Govt. of India for carrying out part of Ph.D work in University of Bonn, Germany (1994 to 1996). Revisit grant in 2001



**UNESCO**  
Fellowship, Italy

### **2. UNESCO Biotechnology Fellowship ,2001**

Selected by UNESCO Biotechnology Action Council for training in Biotechnology at University of Bari, Bari, Italy



**EMBO Fellow**  
Germany

### **3. EMBO Fellow, 2002**

Selected by **European Molecular Biology Organisation (EMBO)** as World programme Fellow, to carry out research in Molecular Biology at Carl von Ossietzky Universität, Oldenburg, Germany for nine months. One among the four fellows selected.



**Mariecurie Fellow**  
EC, Belgium

### **4. MARIECURIE Fellow, 2004**

Selected by European Commission as Mariecurie Fellow and awarded individual project on DNACHIP(**Nanobiotechnology**) for 2,13,522 Euros (Rs. 1.24 Crores) to carry out the project at European Molecular Biology Laboratory, Heidelberg, Germany (Nov. 2004 to Oct. 2006).

***Dr. S.G.Prakash Vincent, Age 45 years, from Cross View,  
Trituapuram, Kuzhithurai, Kanniyakumari District Tamilnadu.***

## Project fundings: 180 Lakhs +

Construction of a DNACHIP for the identification of myoblast fusion genes in larvae of medaka *Oryzias latipes*. Funded by European Commission (Sixth Frame Work Programme) . Dec.2004 to Nov.2006, 2,13,522 Euros (Rs. 124.5 Lakhs)

EMBO Practical course on DNA Microarray . Funded by European Molecular Biology Organisation, Aug. 11 -16, 2007,, Aug 15-20, 2009 60,000 Euros (Rs. 36 Lakhs). Training programme to be conducted at CMST, Manonmaniam Sundaranar University, Rajakamangalam, K.K.Dist, TN, INDIA

cDNA cloning and sequence analysis of opioid receptor genes from *Carcinus maenas* . Funded by European Molecular Biology Organisation. Nov.2002 to July 2003 , 23,600 Euros (Rs. 12.7 Lakhs)

Purification And Structural Characterization Of Novel Molecules Antagonistic To The Superbug Methicillin Resistant *Staphylococcus aureus* , Department of Science and Technology, Govt. of India 2013 – 2016 (Rs. 42 Lakhs)

## International/National Training Programmes Organised

**1. Aug 2009, Organizer,** European Molecular Biology Organisation (EMBO) World Practical Course on **DNA Microarray-Analysis and Applications** – Aug 16-20, 2009 International Centre for Nanobiotechnology. CMST campus, Manonmaniam Sundaranar University, Rajakamangalam, Tamilandu. India. Total 20 participants from 10 countries.

**2. August 2007, Organizer,** European Molecular Biology Organisation (EMBO) World Practical Course on **DNA Microarray-Analysis and Applications** – Aug 11-16,2007. International Centre for Nanobiotechnology. CMST campus, Manonmaniam Sundaranar University, Rajakamangalam, Tamilandu. India. Total 20 participants from 12 countries.

**3.September 2003: Coordinated** a National Level Workshop on **BIOTECHNIQUES** and gave training to 45 Scientists/Scholars in the different techniques of Recombinant DNA Technology, particularly the cDNA cloning technology in Department of Biotechnology, Malankara Catholic College, Mariagiri, Kaliakavilai, K.K.Dist.

## Selected Publications

### **Novel anti-infectives against 'Superbug'**

1. Kannan, R.R. and **Vincent, S.G.P.** (2011) Molecular Characterization of antagonistic *Streptomyces* isolated from a mangrove swamp. **Asian Journal of Biotechnology** 3(3) 237-245
2. Kannan, R.R., Iniyan, M.A and **Vincent, S.G.P.**(2011) Isolation of a compound with Anti-MRSA activity from a Mangrove symbiont *Streptomyces* sp PVRK-1 and its biomedical studies in Zebrafish embryos. **Asian Pacific Journal of tropical Biomedicine**. 5,341-347 Elsevier
3. Kannan R.R and **Vincent, S.G.P.** (2010) Isolation of a novel bioactive compound from *Rhizophora mucronata* for Methicillin Resistant *Staphylococcus aureus* (MRSA) and compound toxicity assessment in Zebrafish embryos. **Indian Journal of Pharmacy Research**, 3(8) 2000-2003

### **Lectins : Cell Targeting Molecules**

4. Sudhakar G.R.L., Smith, V.R.P., Devi, P.R and **Vincent, S.G.P** (2012) First report on an N-acetylneuraminic acid specific lectin from the marine alpheid shrimp *Alpheus digitalis* Complex De Haan 1844 (Family: Alpheidae). **Italian Journal of Zoology**. 79(4) 482-491
5. Rajan, R.A., Sutha A., Sabitha., **Vincent, S.G.P.**, Sudhakar L. and Lipton A.P. (2007) Isolation and Partial Characterization of Agglutinin from *Neries diversicolor* Mull. **Journal of Theoretical and Experimental Biology** 4(1): 5-8

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### **Nanoparticles**

6. Kannan R.R, Jerly A.J.A, Ranjani M, and **Vincent, S.G.P.** (2011). Antimicrobial silver nanoparticle induces organ deformities in the developing Zebrafish (*Danio rerio*) embryos. **Journal of Biomedical Science and Engineering**, 4, 246-25.

### **Cardio-active Molecule**

7. Kannan, R.R., and **Vincent, S.G.P.** (2012) *Cynodon dactylon* and *Sida acuta* extracts impact on the function of the cardiovascular system in zebrafish embryo. *Journal of Biomedical Research*- 2012, 26(2): 1-8 Elsevier

### **Hematopoietic Molecule**

8. Kannan R.R and **Vincent, S.G.P.** (2012) Screening of Herbal extracts influencing Hematopoiesis and their Chemical Genetic effects in embryonic Zebrafish. *Asian Pacific Journal of Tropical Biomedicine*-Elsevier-in press.

### **Neuroactive Molecule**

9. Kannan R.R and **Vincent, S.G.P.** (2012) Rapid neurobehavior Acetylcholinesterase inhibitor from *Tephrosia purpurea* in Zebrafish. *Annals of Neurosciences*. Official journal of Indian Association for Neurologist Vol 19, No 1 (2012)



Founder & Coordinator of ICN: Dr.S.G.Prakash Vincent

## ICN - International Alumni 2009

1. Dr. Budanov Andrey V., University of California, **United States** 
2. Dr. Boutet Isabelle, Station Biologique de Roscoff.7144 CNRS UPMC, **France** 
3. Mr. Schutte Andre, Johannes Gutenberg-University, **Germany** 
4. Dr. Fernandez Lioris Raquel, URS Scientific Park of Barcelona , **Spain** 
5. Dr. McCully Michelle, School of Medicine, Cardiff University, **UK** 
6. Dr. MV Tejesvi, Novozyme, Copenhagen, **Denmark** 
7. Dr. Ferreira Junior, University of São Paulo, **Brazil** 
8. Dr. Latypov Oleg R., GKS Inst.of Biochemi. & Physioll. of Microorganisms, Pushchino, **Russia** 
9. Dr. Linde Liat, Center of Translational Genetics at the Technion, Haifa, **Israel** 
10. Dr. Yilmaz Remziye, Middle East Technical University, Ankara, **Turkey** 
11. Mr. Joseph Mafofo, University of the Western Cape, Cape Town, **South Africa** 
12. Dr. Gregory Sword, University of Sydney, Sydney, **Australia** 
13. Dr. Falfan-Valencia Ramces, National Institute of Respiratory Diseases , **Mexico** 
14. Dr. Sara Balesaria, University College London, **United Kingdom** 
15. Mr. Jan Rodewald, Austrian Research Centers GmbH-ARC, Vienna, **Austria** 
16. Ms. Serej Delphine Ley, Swiss Tropical Institute, Basel, **Switzerland** 
17. Dr. Esen Ismet Oktay, Bilkent University, Ankara, **Turkey** 
18. Dr. Janardan Lamichhane, Kathmandu University, **Nepal** 
19. Mr. Andor Doszpoly, Hungarian Academy of Science, **Hungary** 



# DNA MICROARRAY

16 - 20 August, 2009

## ANALYSIS AND APPLICATIONS

**Manonmaniam Sundaranar University**

 International Centre for Nanobiotechnology (ICN)  
 CMST Campus, Rajakamangalam-629503.

K.K.Dist, TN

I N D I A

*The aim of this course is to give the participants (doctorates, postdocs, young scientists) a practical introduction into the analysis of gene expression using microarrays. ...*



### Organisers

**Dr. S.G. Prakash Vincent**

Coordinator - ICN, MSU, India

**Dr. Jonathon Blake**

EMBL-Heidelberg, Germany

**Dr. Vladimir Benes**
Head, Genomics Core Facility  
EMBL-Heidelberg, Germany
**Dr. Luis M. Teran**
Head, Dept. of Immunogen. And Allergy  
NER, Mexico
**Dr. Christian Schwager**

DKFZ, Heidelberg, Germany

**Dr. Ute Wirkner**

DKFZ, Heidelberg, Germany

The increasing numbers of whole genome sequences being unraveled, opens the possibility of functional analysis of genes from bacteria to mammals using DNA microarray.

**On line application**
**EMBO Courses and Workshops**
<http://cwp.embo.org/wpc09-10/index.html>

 CP: HOME  
 CP: ORGANISERS  
 CP: INSTRUCTORS  
 CP: PROGRAMME  
 CP: VENUE  
 CP: TRANSPORT  
 CP: REGISTRATION

Submission of Application

APPLY ONLINE HERE

 \*There is no registration fee.  
 The accommodation and food for the

**DNA MICROARRAY -**  
**analysis and applications**

analysis and applications

#### About the Practical Course

Microarray technology is an indispensable tool for rapid gene expression analysis in the Genome sequence era. The increasing numbers of whole genome sequences being unraveled, opens the possibility of functional analysis of genes from bacteria to mammals using DNA microarray.




The aim of this course is to give the participants a practical introduction into the analysis of gene expression using microarrays.

The course takes the participants through the complete process of a microarray analysis, from RNA isolation through to data analysis.

The practical programme of laboratory and blackboard sessions is supported by a series of lectures by visiting scientists presenting their

### Instructors

**Dr. Vladimir Benes** EMBL- Heidelberg, Germany

**Dr. Jonathon Blake** EMBL- Heidelberg, Germany

**Dr. Henner Friedle** Agilent Technologies, Germany

**Dr. Mugasimangalam C. Raja** Genotypic technology, India

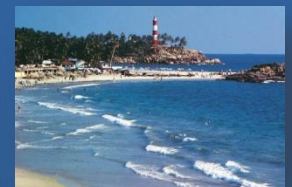
**Dr. George Reid** EMBL - Heidelberg, Germany

**Dr. Parag P. Sadhale** IISc, India

**Dr. Christian Schwager** DKFZ-Heidelberg, Germany

**Dr. Luis Teran** INER, Mexico

**Dr. Ute Wirkner** DKFZ- Heidelberg, Germany

**Dr. S.G. Prakash Vincent** ICN, MSU, India

**Last Date: May 15, 2009**

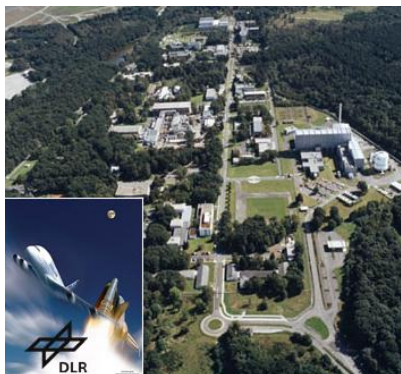
## ***Visits Abroad***

	Countries visited	Purpose	Duration	From	To
1	Germany Switzerland	DAAD Fellow Research	9 months	06.04.1994	04.03. 1995
2	Germany France Belgium	DAAD Fellow Research	7 months	08.07. 1995	24.01. 1996
3	Thailand (Bangkok)	World Aquaculture Conference '96	1 week	28.01. 1996	04.02. 1996
4	Germany Belgium France	DAAD Fellow Research	7 months	19.06. 1996	26.12. 1996
5	England Scotland (Edinburgh)	1 st U.K Marine Biotechnology Conference	1 week	19.08. 1996	26.08. 1996
6	Germany	DAAD Revisit Programme	2 months	04.10.2001	28.11. 2001
7	Italy Austria	UNESCO Fellowship in Biotechnology	1 month	29.11. 2001	24.12. 2001
8	Belgium	European Research 2002 (FP6)	2 weeks	8.11. 2002	24.12. 2002
9	Germany	EMBO Fellow	9 months	25.11. 2002	26.07. 2003
10	France	Indo-French Nanobiotechnology & Genomics Meet	1 week	08.10. 2004	10.10. 2004
11	Greece	Training Programme on Methods in Micro- Nanotechnology and Nanobiotechnology	1 week	06.06.2005	10.06.2005
12	Germany	Mariecurie Fellow	24 months	15.12. 2004	25.11.2006
13	Singapore	Higher Education Summit	2 days	27.10. 2009	29.10. 2009

## Descriptive Biodata of Dr.S.G.Prakash Vincent



**Univ. of Bonn, Germany**



**DLR, German Aerospace Research Centre, Köln**

In 1994, during my Ph.D research at University of Madras, Guindy Campus, I was selected as the topper in field of Biotechnology by Ministry of Human Resources Management, Govt. of India as DAAD Fellow (German Academic Exchange Fellow). I carried out my Ph.D work at University of Bonn, Germany. During my two and half years of Stay in Germany, I had learnt many advanced techniques. For a short time I had worked at the German Aerospace research Centre, Koln. This gave me an opportunity to look at my mother land in a different perspective. After my Ph.D research, I wanted to come back to India and play my role in the development of India. In 1997, I joined as a lecturer in Manonmaniam Sundaranar University.

Tamilnadu has high Intellectual capital and India has high Biodiversity (particularly Kannyakumari District). In 2001, I had



**Univ. of Hamburg, Germany**

written a Department of Biotechnology, Govt of India to establish a Indian Institute of Biotechnology. Again in 2001 I visited Germany in a DAAD revisit programme. During this period I worked at University of Hamburg. During my European visits I used to go around Universities and visit different cities to understand more about their development.

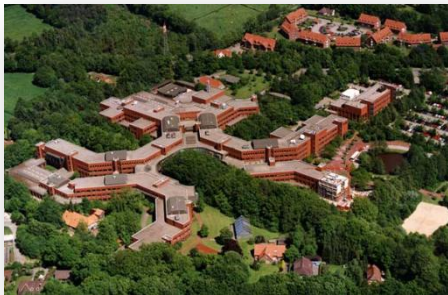




In 2001, I was selected to receive UNESCO Fellowship In Biotechnology. I had training for a month (Nov,2001) in University of Bari, Italy on Mitogenomics. A complete training on sequencing of whole mitochondrial genomes was obtained.

University of Bari, Italy

In Aug 2002, I was selected as an EMBO Fellow, (European Molecular Biology Organisation) to carry out research in



Biotechnology. In a global level competition, I was one among the four young scientist invited to carry out my research at an European University, University of Oldenburg, Germany. I was getting trained at different Universities in Europe.

University of Oldenburg, Germany

In 2002, I was made as the Coordinator of Nanobiotechnology Programme of Manonmaniam Sundaranar University. At this time



EU Office, Brussels

through internet I came to know that the European Union is going to inaugurate one of its high profile research funding programme the Sixth Frame Work Programme (FP6) with a research budget of 17 Billion Euros at EU, Brussels. I decided to participate in the programme to understand the perspective of Research in Europe. Eight thousand scientists from all over the world participated in the three day event. I participated in the programme by self sponsorship. I came in contact with many scientist and after the FP6 programme , I visited the European Commission office three days to have more interaction.



University of Leuven, Belgium

During my stay at Belgium, I was invited to deliver a lecture at University of Leuven, Belgium. This gave a very good boost to my idea. I could understand the different programme of the EU.



In 2004, I competed for the prestigious MARIECURIE FELLOWSHIP of the European Commission Sixth Frame Work Programme (FP6). For young scientist around the globe this is a challenging fellowship with a funding of quarter a million USD. My project got grade 'A' and was funded. Probably I am the first MARIECURIE FELLOW from India.



Sophia-Antipolis Research Park , France

I was invited to delivery a lecture at Sophia-Antipolis Research Park at Niece, France. This gave me an overview of the functionalities of a research park. I was part of a 20 member delegation from India to France.

From 2004 – 2006, I carried my research at European Molecular Biology Laboratory, Heidelberg, Germany. EMBL is the top Institute in Europe with more than 800 scientist from 60 Nationalities. At EMBL



EMBL, Germany

I understood how scientist can mutually collaborate to bring out world class products. I could hit upon the different winning strategies in an European Institute.



DEMOKRITOS, Greece

In 2005, I had undergone a training Methods in Micro-Nanotechnology and Nanobiotechnology at DEMOKRITOS, Athens, Greece, which a premier Research Institute in Greece. In 2006, I finished the project at EMBL, Germany and returned to India.



In 2007, myself with four of European and one Mexican Scientist organised an International training programme on “DNA Microarray analysis and Applications’ in MS University. There were participants from eight countries.



In 2009, I organized the International course on ‘DNA Microarray and its Applications at ICN and trained scientist from 9 countries including many from India. For attending this training programme 1475 applicants from 30 countries had made their application from which 20 were selected.



Founder of International Centre for Nanobiotechnology (ICN), first of its kind in India. Started M.Sc in Nanobiotechnology and M.Tech in Nanobiotechnology as Industry-University Joint programmes in 2008. ICN has Alumni of 17 Nationalities. ICN focuses on Drug Discovery of Infectious diseases as MRSA And therapeutic biomolecules.





Dr. S.G. Prakash Vincent appointed as **FOCAL POINT** for Horizon 2020, the 70 Billion Euro Research funding programme of the European Commission (2014-2020).



In 2013, Dr. S.G. Prakash Vincent started AIC as a Research and educational not-for-profit trust to foster International collaborations.



In Sept 2014, Dr.S.G.Prakash Vincent Appointed at Chairman Associate (India) For BRICS Biomed Cooperation

After 24 years of experience in various research fields and after 18 years of various International experience in Nanotechnology/ Nanobiotechnology including research at premier European Universities and Institutions ,I had developed the concepts to foster International Cooperations.

For further discussions/meeting contact at [prakashvincent.icn@gmail.com](mailto:prakashvincent.icn@gmail.com)

Sept. 10, 2014

Dr.S.G.PrakashVincent  
DAAD Fellow (Germany)  
EMBO Fellow (Germany)  
UNESCO Fellowship Awardee(Italy)  
MARIECURIE Fellow (EC)