

IX International Symposium on Vectors and Vector Borne Diseases

Puri, Orissa (India) ▪ 15-17 February 2008

SCIENTIFIC PROGRAMME AT A GLANCE

Time	Day 1: 15 February 2008		Day 2: 16 February 2008		Day 3: 17 February 2008	
	Hall A	Hall B	Hall A	Hall B	Hall A	Hall B
0900-0930	Registration					
0930-1000			Plenary II (KS Rai)		Plenary III (D Deobhagkar)	
1000-1100	Inaugural Session		Vector Biology & Control	Molecular Biology	Disease Burden & Epidemiology	Management of Vector Borne Diseases
1100-1130			T E A - B R E A K			
1130-1200	TEA-BREAK		Vector Biology & Control	Molecular Biology	Disease Burden & Epidemiology	Management of Vector Borne Diseases
1200-1300	Keynote Address (G Padmanabhan)					
1300-1400	L U N C H - B R E A K					
1400-1430	Plenary I (VS Chauhan)		Vector Biology & Control	Clinical Aspects and Diagnosis	Valedictory Session	
1430-1530	Climate Change and Malaria	Drug Development & Chemotherapy				
1530-1600	T E A - B R E A K					
1600-1700	Climate Change and Malaria	Drug Development & Chemotherapy	Vector Biology & Control	Clinical Aspects and Diagnosis		
1700-1900	P O S T E R P R E S E N T A T I O N S					

IX International Symposium on Vectors and Vector Borne Diseases

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Day 1: Friday, 15 February 2008 (Hall A)

0900-1000	R E G I S T R A T I O N
1000-1130	I N A U G U R A L S E S S I O N
1130-1200	T E A B R E A K

Keynote Address

Chairperson: Samlee Plianbangchange

1200-1300	▪ G Padmanaban	Drugs and drug targets for malarial parasites
1300-1400	L U N C H B R E A K	

Plenary Lecture

Chairperson: RC Mahajan

1400-1430	▪ VS Chauhan	Development of malaria vaccine: Current scenario
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Session-I: C L I M A T E C H A N G E A N D M A L A R I A

Chairperson: Jai P Narain

1430-1530	▪ S Patwardhan	The scientific basis of climate change and use of regional models in impact studies
	▪ Menno Bouma	Early warning of epidemic malaria- past, present and future
	▪ RC Dhiman	Vulnerability assessment of malaria from the viewpoint of climate change in India
1530-1600	T E A B R E A K	
1600-1700	▪ M Kalyansundaram	The impact of climate change on vector population
	▪ A Sharma	Video film on global warming
1700-1900	P O S T E R P R E S E N T A T I O N S	

Day 1: Friday, 15 February 2008 (Hall B)

Session-II: DRUG DEVELOPMENT & CHEMOTHERAPY

Chairperson: S Pattanayak

1430-1530	▪ Jean-Rane Kiechel	FACT (Fixed Dose Artesunate Combination Therapies): from concept to patients
	▪ Mohd Asif	Identification and molecular characterization of novel drug targets for malaria
	▪ PP Singh	Possible extension of the working life of miltefosine by reduction of its curative doses by azithromycin: a rodent visceral leishmaniasis study
	▪ Shoibal Mukherjee	Arterolane: a new drug for malaria, the story so far
1530-1600	T E A B R E A K	
1600-1700	▪ Bhawna Sharma	Drugs for neglected diseases initiative: an innovative approach to the drug R&D
	▪ Farhat Afrin	Development of vaccines against leishmaniasis and immune therapeutics
	▪ MK Mohapatra	Inadequate erythropoietin production in falciparum malaria
	▪ Neena Valecha	ACT for malaria treatment in India : Current status and new developments
1700-1900	P O S T E R P R E S E N T A T I O N S	

Day 2: Saturday, 16 February 2008 (Hall A)

Plenary Lecture

Chairperson: G Smirnov

0930-1000 ▪ **KS Rai** Vector biology and disease epidemiology: Looking back and ahead

Session-III: V E C T O R B I O L O G Y & C O N T R O L

Chairperson: Chusak Prasittisuk

1000-1100 ▪ **SK Subbarao** Biology of malaria vectors in India: Present knowledge and research prospects

▪ **DT Maurya** Japanese encephalitis vectors in India and control strategies

▪ **Rajpal Yadav** Integrated Vector Management : Key elements and future outlook

1100-1130 T E A B R E A K

1130-1300 ▪ **CP Batra** Multicentre field evaluation on mosquito larvicidal action of *Bacillus thuringiensis* var *israelensis* formulations Bacticide WP and DT

▪ **Allan Schapira** The evaluation of global and national policies related to insecticide-treated nets

▪ **RK Seth** Use of nuclear techniques in management of mosquitoes as disease vectors: Indian perspectives

▪ **SS Vasan** Dengue and chikungunya: Can genetically sterile mosquitoes offer a solution?

▪ **SK Gakhar** Mosquito transgenesis to combat malaria

1300-1400 L U N C H B R E A K

Session-IV: V E C T O R B I O L O G Y & C O N T R O L

Chairperson: AK Hati

1400-1530 ▪ **Robert Farlow** Introduction of interceptor with Fendozin (LLIN)

▪ **SM Sadjjadi** In vivo evaluation of methanolic extract of *Alium sativum* (Garlic) and *Alium cepa* (onion) in cutaneous leishmaniasis induced by *Leishmania major*

▪ **A Joshi** Chemical and environmental vector control as a contribution to the elimination of Visceral Leishmaniasis on the Indian Subcontinent: Cluster Randomized Trials in Bangladesh, India and Nepal

▪ **S K Ghosh** Towards a sustainable malaria control programme

▪ **JR Lucas** New approaches in vector control

1530-1600 T E A B R E A K

1600-1700	▪ John Thomas	Challenges in Indoor Residual Spray for the control of insect vectors
	▪ Nutan Nanda	An update on the <i>Anopheles fluviatilis</i> complex
	▪ PK Patanjali	Pesticide formulations for public health and vector control
1700-1900	P O S T E R P R E S E N T A T I O N S	

Day 2: Saturday, 16 February 2008 (Hall B)

Session-V: MOLECULAR BIOLOGY

Chairperson: GC Mishra

1000-1100	<ul style="list-style-type: none">▪ Jane Carlton▪ Raj Bhatnagar▪ YD Sharma	Plasmodium vivax: genetics and genomics of a 'neglected' human malaria Suppression of RNAi by Flock house virus B2 protein in Sf21 insect cell line Molecular epidemiology of drug resistant malaria in India
1100-1130	T E A B R E A K	
1130-1300	<ul style="list-style-type: none">▪ Pawan Malhotra▪ SL Hoti▪ Aparup Das▪ MR Ranjit▪ K Mishra	Tudor domain proteins in <i>Plasmodium falciparum</i> and their role(s) in RNA metabolism and spliceosomal assembly Genetic structure of <i>Wuchereria bancrofti</i> population in main land India and in Nicobar Island Evolutionary genomic perspectives of malaria in India Relationship of drug resistant mutations with pathogenicity of <i>P. falciparum</i> parasites in a malaria hyperendemic area Efficient detection of <i>Brugia malayi</i> and <i>Wuchereria bancrofti</i> in blood and mosquito samples by a single PCR
1300-1400	L U N C H B R E A K	

Session-VI: CLINICAL ASPECTS & DIAGNOSTIC TOOLS

Chairperson: P Das

1400-1530	<ul style="list-style-type: none">▪ G Nagesh Babu▪ S Mohanty▪ A Kumar▪ MM Parida▪ Deepak Bhattacharya	Neurochemical manifestations in Japanese Encephalitis Cerebral oedema in adult cerebral malaria patients Assessment of coverage and compliance of mass drug administration against filariasis in Udupi Taluk, Karnataka Rapid Real-Time and high throughput detection technologies for clinical diagnosis of emerging arboviruses <i>Punicalgin, Punicafolin</i> , Effective Against Drug-Resistant Malaria
1530-1600	T E A B R E A K	
1600-1900	P O S T E R P R E S E N T A T I O N S	

Day 3: Sunday, 17 February 2008 (Hall A)

Plenary Lecture

Chairperson: S Pattanayak

0930-1000	▪ Dilip N Deobhagkar	Prohibitin mediated mechanisms play a central role in epigenetic modulation of vector competence in mosquito
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Session-VII: D I S E A S E B U R D E N & E P I D E M I O L O G Y

Chairperson: Jai P Narain

1000-1100	▪ Nakul Chitnis	Modeling of malaria epidemiology and control
	▪ Ekta Gupta	Current trends in dengue epidemiology in India
	▪ Neeraj Dhingra	Estimation of malaria in India through verbal autopsy

1100-1130 T E A B R E A K

1130-1300	▪ SK Sharma	Development of field site for malaria vaccine trials: Epidemiology of malaria transmission in Sundargarh district, Orissa
	▪ Ashwani Kumar	Burden of malaria attributable mortality in Jharkhand: A case study from some tertiary and secondary care hospitals
	▪ Neeru Singh	The burden of tribal malaria: Where do we stand today?
	▪ Siddhartha Agrawal	Dengue and chikungunya: Emerging public health challenges in urban India
	▪ MM Pradhan	An overview of malaria situation and constraints in controlling the disease in Orissa, India 2007

1300-1400 L U N C H B R E A K

1400-1500 V A L E D I C T O R Y S E S S I O N

Day 3: Sunday, 17 February 2008 (Hall B)

Session-VII: MANAGEMENT OF VECTOR BORNE DISEASES

Chairperson: Shiv Lal

1000-1100	▪ Shyam Sundar	Recent advances in treatment of Kala-azar
	▪ Ruchi Singh	Transcriptome profiling for identification of antimony resistance determinants in <i>Leishmania donovani</i> isolated from Indian patients of Kala azar
	▪ GS Sonal	Drug policy for management of malaria in India
	▪ R Polavarapu	New technology in malaria control
1100-1130	T E A B R E A K	
1130-1300	▪ RS Sharma	Urban malaria control in India
	▪ RK Dasgupta	New initiatives in policy development, planning and programme management for control of vector borne diseases in India
	▪ K Krishnamoorthy	Research needs to support programme to eliminate lymphatic filariasis in India
	▪ VK Raina	Epidemiology of JE in Indian context
	▪ T Tashi	The declining malaria cases in Bhutan during the past ten years: a success story of malaria control programme
1300-1400	L U N C H B R E A K	
1400-1530	V A L E D I C T O R Y S E S S I O N	

International Workshop on Insecticide Resistance

Puri, Orissa (India) ▪ 14 February 2008

PROGRAMME

CHAIRPERSON: MKK Pillai

0930-0940	▪ AP Dash	WELCOME
0940-0945	▪ Rafael Girotto	OPENING REMARKS
0945-1015	▪ GPS Dhillon	▪ Problem of insecticide resistance in the control of malaria and other vector borne diseases
1015-1045	▪ Gerhard Hesse	▪ Insecticide resistance mechanism—a practical approach
1045-1115	T E A - B R E A K	
1115-1145	▪ Shiva Murgasampillay	▪ Impact of insecticide resistance on malaria vector control interventions and opportunities for resistance management
1145-1215	▪ Chia Tio Huat	▪ Management of organophosphate resistance
1215-1245	▪ Ravindra R Abeysinghe	▪ Bendiocarb 80% WP—role in resistance management strategy in Sri Lanka
1245-1315	▪ Helen Pates Jenet	▪ Resistance: The way forward
1315-1415	L U N C H - B R E A K	
1415-1445	▪ K Raghavendra	▪ Insecticide resistance and possible approaches of management
1445-1515	▪ PK Mittal	▪ Insecticide resistance in aquatic stages of malaria vectors
1515-1545	T E A B R E A K	
1545-1615	▪ Daniel Kopf	▪ Insecticide treated nets: impact on health and productivity and determining willingness to pay
1615-1645	▪ K Gunasekaran	▪ Overcoming insecticide resistance: a bioinformatics approach
1645-1715	▪ VP Sharma	▪ Research priorities in insecticide resistance in vectors of malaria and other vector borne diseases
DISCUSSION & RECOMMENDATIONS		

Poster Presentations

Day 1: 15 February 2008

Poster Number	ABSTRACT TITLE AND AUTHORS
P1.1	Laying preference in <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> <u>Acharya UR</u> , Tripathy NK, Behera HN
P1.2	Field evaluation on the larvivorous potential of <i>Aplocheilus parvus</i> (Raj, 1916) in Chennai, India <u>Alex E</u> , Dash AP
P1.3	Evaluation of Adulticidal Activity of Azadirachtin (EC 0.03%) on <i>Anopheles</i>, <i>Culex</i> and <i>Aedes</i> mosquitoes in central gujarat region <u>Annasamudram S</u> , Purohit H, Shivakumar MS, Patel PV
P1.4	<i>In vivo</i> antimalarial activity of an extract from a plant belonged to Garhwal region of Uttarakhand State, India <u>Atul PK</u> , Verma G, Dua VK, Adak T, Dash AP
P1.5	Knowledge and Attitude about Malaria among Accredited Social Health Activists (ASHAs) under National Rural Health Mission (NRHM) – Bhopal, Madhya Pradesh <u>Azhaganathan B</u> , Shrivastava N
P1.6	Larvicidal activity of the extracts from different parts of the plant <i>Solanum xanthocarpum</i> against important mosquito vectors in the arid region <u>Bansal SK</u> , Singh KV, Kumar S, Sharma RC
P1.7	Wild small mammals and their ectoparasites as possible reservoir hosts and vectors of <i>Bartonella</i> genus bacteria in two regions of Russia <u>Bashkirov VN</u> , Manuvera VA, Lopyrev IV, Shirokov DA, Kulikov AM, Kruglov AN, Kovalevsky YuV, Korenberg EI, Smirnov GB, Kosoy M
P1.8	Evaluation of some aspects of national filaria control programme in Nanded District Bhagat VM
P1.9	Phylogenetic analysis of dengue viruses in Delhi: Journey over time <u>Bharaj P</u> , Chahar HS, Dar L, Guleria R, Kabra SK, Broor S
P1.10	An investigation into malaria outbreak in forested villages of Chhattisgarh, Central India <u>Bhatt RM</u> , Sharma SN, Adak T, Dhiman RC, Singh OP, Nanda N, Dash AP
P1.11	Studies on <i>Aedes</i> mosquitoes near an international Border and an international airport in India Bhattacharya S
P1.12	Dengue fever outbreak in Jabalpur city <u>Chand G</u> , Yadav R, Soan V, Kaushal LS, Singh N

- P1.13 **Estimation of *Anopheles fluviatilis* species by light trap in a tribal village of Mandla District of Madhya Pradesh**
Chand SK, Singh N
- P1.14 **Concomitant infection of intestinal helminthes with filariasis in Rajanagar block, Madhya Pradesh, India**
Das D, Kumar S
- P1.15 **Efficacy of three intervention methods for the control of vector of visceral leishmaniasis in Nepal**
Das ML , Rijal S, Roy L, Kroeger A, Boelaert M
- P1.16 **Naturally acquired antibody response to defined *Plasmodium falciparum* antigens in the population of Sundergarh, Orissa**
Das N, Adak T, Parasher H, Sharma SK, Dash AP
- P1.17 **Mosquito fauna of the Chilika Lake, Orissa state**
Dash SP, Hazra RK, Ilango K
- P1.18 **Evaluation of larvicidal activity of *Swertia chirata* leaves against filarial vector mosquito, *Culex quinquefasciatus* say**
Desai RN and Hiradhar PK
- P1.19 **Insecticide-treated nets, the key element for rolling back malaria in north-eastern India: policy and practice**
Dev V
- P1.20 **Mapping the ecological risk of malaria in canal- irrigated area of Northern Karnataka using Remote Sensing**
Dhiman RC, Pahwa S, Ghosh SK, Dash AP
- P1.21 **Landscape and environmental risk factors of Malaria in Assam**
Dhiman RC, Sahu B, Dash AP
- P1.22 **Industrial Malaria Control: Results of 15 years study on malaria control at five major industrial complexes of India**
Dua VK, Dash AP
- P1.23 **Insecticidal properties of *Lantana camara* (Verbenaceae) against mosquitoes**
Dua VK, Pandey AC, Dash AP
- P1.24 **Malaria and anaemia among the pregnant and non-pregnant tribal population in forested areas of Chhattisgarh, Central India**
Dutta GDP , Bhatt RM, Dhiman RC, Dash AP
- P1.25 **Current situation of visceral leishmaniasis in Kohgiluyeh and Boyerahmad, southeast of Iran**
Ebrahimi S, Sarkari B
- P1.26 **Studies on the day biting mosquitoes in Annamalai Nagar, the urban area, chidambaram, Tamil Nadu**
Elangovan A, Selvakumar S, Soundararajan M
- P1.27 **Study of Effectiveness of Electrical Mosquito Hitting Bat (EMHB) as Household mosquito Control Method**
Giri VC, Bhagat VS, Bagdey PS, Khakse GM, Zodpey SP
- P1.28 **In vitro antiplasmodial activity of oxidation products of primaquine**
Gupta NC, Dua VK, Mankotia P, Biswas S, Dash AP

- P1.29 **Distribution of the sandfly *Phlebotomus argentipes* in the Western Ghats and its implication on Visceral Leishmaniasis (Kala-Azar) cases in Kerala and Gujarat states, India**
Ilango K, Ragu K
- P1.30 **The Status of incurrence and the management of Malaria in Central Zone of Surat city**
Jariwala G
- P1.31 **Small scale field trials for evaluation of hilmilin (diflubenzuron-25% wp) against immatures of mosquitoes in rice fields**
John RK, Alex E, Dash AP
- P1.32 **Development of Malaria Early Warning System with reference to Global Climate Change and Mapping Malaria Hotspots**
Kant R
- P1.33 **A Survey on the perception of Malaria from Kolkata, W.B.**
Kar I
- P1.34 **High gametocytaemia in *P. falciparum* malaria: a signal of persistent malaria in an endemic area of India**
Kar PK, Dua VK, Gupta NC, Gupta A, Dash AP
- P1.35 **The problem of Chikunguniya in Erode (Tamil Nadu) and role of community participation in prevention**
Karthikeyan M
- P1.36 **Larvicidal Action of Azadirachtin on the Larval Population of Mosquito genera *Culex*, *Anopheles* and *Aedes* in Vadodara.**
Kataria R, Shivakumar MS, Dollykumar
- P1.37 **Preferred breeding Habitats of *Aedes aegypti* Vector of Dengue/DHF and Chikungunya in Delhi, India**
Katyal R, Saxena VK, Kumar K, Shiv lal
- P1.38 **Inhibition of filarial parasite development (*Wuchereria bancrofti*) in vector mosquito (*Culex quinquefasciatus*) by anti-mosquito midgut antibodies**
Khan S, Qureshi S, Dixit V, Gupta AK, Prasad GBKS
- P1.39 **Significance of external female genitalic attributes in family culicidae**
Kirti JS, Kaur J
- P1.40 **An outbreak of Chikungunya viral disease in Malegaon Municipal areas of Nasik District, Maharashtra (India)**
Kumar K, Chhabra M, Katyal R, Patnaik PK, Saxena VK, Mittal V, Shiv Lal
- P1.41 **Role of *Anopheles subpictus* in malaria transmission in Angul district of Orissa**
Kumari S, Tripathy A, Panda SP, Marai NS, Parida SK, Hazara RK, Mahapatra N
- P1.42 **Effectiveness of plastic net covers in *Aedes aegypti* and *Ae. albopictus* control in ground level cemented water storage tanks in Kandy, Sri Lanka**
Kusumawathie PHD, Yapabandara AMGM, Jayasooriya GAJSK, Walisinghe C
- P1.43 **Susceptibility of the larvae of mosquito vectors to certain synthetic insecticides**
Lalit M, Sharma P, Verma MM, Maurya P, Srivastava CN

- P1.44 **Household surveys in five states of India to assess the malaria control measures**
Malhotra MS, Dash AP
- P1.45 **An eco-friendly approach in combating human vector mosquitoes**
Manimaran A, Mary Jee Jee Cruz, M, Vincent S, Ignacimuthu S
- P1.46 **Diffuse cutaneous leishmaniasis in Southwestern part of Iran**
Maraghi S, Rafiei A, Yaghoobi R, Omidian M
- P1.47 **Preliminary results regarding research of West Nile Virus on Danube Delta Biosphere Reserve and Dobrudjean Tableland – Romania**
Marinov M jr., Kiss JB
- P1.48 **Evaluation of *Momordica charantia* against the larvae of filarial mosquito, *Culex quinquefasciatus* (say)**
Maurya P, Sharma P, Mohan L, Srivastava CN
- P1.49 **Larvicidal activity of leaf extract of *Annona reticulata*: A preliminary study**
Mazumder AH, Gogoi BJ, Nath DR, Srivastava RB
- P1.50 **Distribution of *Anopheles fluviatilis* species complexes in India**
Mehrunnisa A, Nanda N, Singh OP, Dua VK, Sharma SK, Shukla RP, Parasher H, Wajiullah, Adak T
- P1.51 **The weak program management in Mass drug administration (MDA) may delay Lymphatic Filariasis elimination in India**
Mishra A and Lahariya C
- P1.52 **Monitoring of NVBDCP micro action plan to control Pf malaria in Panna district of Madhya Pradesh**
Mishra AK and Singh N
- P1.53 **Increase in malaria associated acute renal failure—experience from Rourkela, Orissa.**
Mishra SK, Mahanta KC, Mohanty S
- P1.54 **Long-lasting efficacy of Olyset® Nets against malaria vectors and impact on disease transmission in a village of Distt. Gautam Budh Nagar, U.P. India**
Mittal PK, Razdan RK, Dash AP
- P1.55 **Dengue: a serious urban threat**
Mukhopadhyay S and Ganguly S
- P1.56 **Philodina sp. in the breeding containers of *Aedes aegypti***
Muniaraj M and Tyagi BK
- P1.57 **Burden of Chikungunya in India**
Nagpal BN
- P1.58 **Effect of Neem Formulation (Azadirachtin EC 0.03%) on Pupae of *Anopheles*, *Culex* and *Aedes* Mosquitoes in Vadodara**
Nair S, Shivakumar MS, Parikh P
- P1.59 **Quality Assurance in Malaria Diagnosis and Treatment: Observation from Chhattisgarh, India**
Pandey A and Sabat RN

- P1.60 **Strong larvicidal activity of three species of *Spilanthes* (Akarkara) against malaria (*Anopheles stephensi* Liston, *Anopheles culicifacies*, species C) and filaria vector (*Culex quinquefasciatus* Say)**
Pandey V, Agrawal V, Raghavendra K, Dash AP
- P1.61 **An analytical review of papers on Dengue: coverage by MEDLINE and Indian Science Abstracts**
Panigrahi BK, Mukherjee T, Srivastava D
- P1.62 **A Longitudinal study of Entomological Inoculation Rate of *An. fluviatilis* in forest area villages of Sundergarh, Orissa**
Parasher H, Sharma SK, Mehrunnisa A, Adak T
- P1.63 **Spontaneous chromosomal aberrations in the somatic and germ line cells of *Aedes aegypti***
Pattnaik S, Choudhury RC, Panigrahy GK, Mishra G
- P1.64 **Epidemiology of malaria outbreak (2006) and targeting interventions in Assam**
Phookan S, Singh SP, Dev V
- P1.65 **Production of mosquitocidal toxins from environmental wastes: A new approach**
Poopathi S and Abidha S
- P1.66 **Outbreak investigation of falciparum malaria in a low transmission area of Orissa, India, 2007**
Pradhan MM, Pattanaik B, Hazra RK
- P1.67 **Evaluation of Malaria Control Programme in Three Selected district of Assam**
Prasad H
- P1.68 **A note on the insecticide resistance in *Anopheles culicifacies* in district Surat, Gujarat subsequent to withdrawal of indoor residual spray**
Raghavendra K, Verma V, Dash AP
- P1.69 **The significance of Topotype collections in mosquito biodiversity studies**
Rajavel AR and Natarajan R
- P1.70 **Use of *Gambusia affinis* in the control of *Anopheles* breeding in slow running streams of the forested eco-system**
Sahu SS
- P1.71 **Larvicidal and chemosterilant active fraction from the leaves of *Argemone mexicana* L.**
Sakthivadivel M, Alex E, Dash AP
- P1.72 **Entomo-serological investigations on Japanese encephalitis in Gorakhpur, Uttar Pradesh (India)**
Samuel PP, Ayyanar K, Kannan M, Thenmozhi V, Paramasivan R, Balasubramanian A, Tyagi BK
- P1.73 **A GIS based malaria surveillance system for Dindigul town, Tamil Nadu**
Saxena R, Srivastava A, Nagpal BN, Dash AP
- P1.74 **Larvicidal activity of Bactocide (WP and DT) against *Aedes* mosquitoes**
Sethi SP, Dua VK, Batra CP, Dash AP
- P1.75 **Dengue and Liver Disease**
Shah I
- P1.76 **Bio-evaluation of certain newly synthesized fatty-acid esters as oviposition deterrents/repellents against malaria and dengue vectors**
Sharma KR, Seenivasagan T, Rao AN, Ganesan K, Malhotra RC, Agrawal OP, Prakash S

- P1.77 **Growth inhibitory action of NSKE against filaria vector, *Culex quinquefasciatus* (Diptera: Culicidae) Say**
Sharma P, Lalit M, Srivastava CN
- P1.78 **Comparative bio-efficacy of indigenous and imported high density polyethylene long lasting insecticidal nets (Olyset® nets) incorporated with 2% permethrin.**
 Sharma SK, Tyagi PK, Upadhyay AK, Haque MA, Raghavendra K, Dash AP
- P1.80 **Evaluation of Long Lasting Insecticidal Nets (Olyset® nets) against malaria vectors and its impact on malaria transmission in tribal area of Sundargarh district, Orissa, India**
Sharma SK, Tyagi PK, Upadhyay AK, Haque MA, Raghavendra K, Dash AP
- P1.81 **Field evaluation of a previously untested strain of biolarvicides (*Bacillus thuringiensis* var. *israelensis* H14) for mosquito control in an urban area of Orissa**
 Sharma SK, Upadhyay AK, Haque MA, Raghavendra K, Dash AP
- P1.82 **Entomological sampling and indicators for dengue and chikungunya vectors in Chhattisgarh, Central India**
Sharma SN, Bhatt RM, Dhiman RC, Dash AP
- P1.83 **Study of malaria out break in the villages of Lamta CHC of Balaghat District of Madhya Pradesh**
Shukla MM, Singh N, Dash AP
- P1.84 **Indoor residual spray and insecticide resistance among malaria vectors in Rajasthan: Current scenario**
Singh KV, Bansal SK, Sharma RC
- P1.85 **A comparative study of the efficacy of allicin against different rodent malarials**
 Singh PP and Debnath K
- P1.86 **Met-enkephalin suppresses disease progression in hamster model of visceral leishmaniasis**
 Singh PP and Das NR
- P1.87 **An entomological investigation during outbreak of dengue in Ranchi, Jharkhand, India.**
Singh RK, Das MK, Kulshrestha AK, Sinha ATS, Dhiman RC, Dash AP
- P1.88 **Evaluating population preference to long lasting insecticidal nets: a pilot study prior to large scale trial in a *Kala-Azar* Endemic Area of Bihar**
Singh SP, Sundar S, Hussain MA, Vanlerberghe V, Boelaert M
- P1.89 **Evaluation of *Cyperus rotundus* (Cyperaceae) hexane extract of tuber of root for repellency against mosquito vectors**
Singh SP, Raghavendra K, Mohanty SS, Dash AP
- P1.90 **Knowledge, attitude, practices and health seeking behaviour related to kala-azar in rural area of Bihar**
 Singh SP, Hussain MA, Agrawal SS
- P1.91 **Myiasis – a review**
 Srinivasan R
- P1.92 **Dengue control: a GIS based approach**
Srivastava A, Nagpal BN, Joshi PL, Yadav NK, Tuli NR, Sharma RS, Dash AP

- P1.93 ***Setaria cervi* HSP70: diagnostic potential in lymphatic filariasis**
Srivastava S, Srikanth E, Rathaur S
- P1.94 **Prevalence of Resistance in Mosquitoes towards insecticides at Air Force Station, Agra**
Sukumaran D, Sharma AK, Tikar SN, Prakash S, Agarwal A
- P1.95 **Variation in life table attributes among geographically isolated strains of *Culex quinquefasciatus* (Say 1823) (Diptera: Culicidae)**
Suman DS, Mendki MJ, Tikar SN, Sukumaran D, Agrawal OP, Parashar BD, Prakash S
- P1.96 **Radio-biological Investigations on Malarial Vector, *Anopheles stephensi* Liston and Filarial Vector *Culex quinquefasciatus* Say (λ -Cyhalothrin resistant)**
Swain V, Yadav K, Zarin M, Zubeda, Raghvendra K, Seth RK
- P1.97 **Insecticide resistance in *Culex quinquefasciatus* mosquitoes from Rajasthan**
Tikar SN, Mendki MJ, Sukumaran D, Sharma AK, Chandel K, Seenivasagan T, Parashar BD, Prakash S
- P1.98 **Prevalence of sibling species complex of *Anopheles culicifacies* in Orissa**
Tripathy A, Kumari S, Panda SP, Marai NS, Parida SK, Hazara RK, Mahapatra N
- P1.99 **Identification of spatial clustering of malaria in epidemic prone areas of eastern Delhi, bordering rural and semi rural areas**
Tyagi P, Malhotra MS
- P1.100 **Larvicidal activity of Fenthion: An organophosphate insecticide against mosquito immature**
Verma MM, Mohan L, Sharma P, Maurya P, Srivastava CN
- P1.101 **Development of oil-in-water emulsion formulations based on essential oils and their adulticidal and larvicidal activity against larvae of *Anopheles stephensi*, *Aedes aegypti* and *Culex quinquefasciatus***
Yadav S, Mittal PK, Dash AP, Saxena PN
- P1.102 **Human behaviour and malaria transmission in desert**
Yadav SP and Sharma RC
- P1.103 **Ixodid tick species infesting sheep and cattle in Kelardasht Part (Chaloos), Iran**
Youssefi MR, Keighobadi M, Asnaashari MY

IX International Symposium on Vectors and Vector Borne Diseases
Puri, Orissa (India), 15-17 February 2008

Poster Presentations

Day 2: 16 February 2008

Poster Number	ABSTRACT TITLE AND AUTHORS
P2.1	<i>Plasmodium vivax</i> Dihydrofolate Reductase (<i>pvdhfr</i>): Characterization of flanking microsatellites and Pyrimethamine Resistance Associated Mutations <u>Alam MT</u> , Bora H, Bharti PK, Dev V, Das MK, Singh N, Dash AP, Sharma YD
P2.2	Clinical and haematological alterations in vector borne Tropical bovine theileriosis in a cattle and its treatment Arunachalam K, Mishra RK, Sharma VK, <u>Sathish KS</u> , Harikrishnan TJ
P2.3	Identifications of novel chloroquine resistance gene(s) in Indian <i>Plasmodium falciparum</i> <u>Awasthi G</u> , Dash AP, Das A
P2.4	Cloning, expression and characterization of envelope (domain III) protein of dengue virus type 3 <u>Babu JP</u> , Attnaik PP, Gupta N, Rao PVL
P2.5	Efficacy of artesunate in combination therapy with china on clearance of <i>Plasmodium berghei</i> infection in balb/c mice <u>Bagai U</u> , Sharma R, Chandel S
P2.6	Genetic analysis of Nitric oxide synthase promoter region and <i>Plasmodium vivax</i> infection of <i>Anopheles stephensi</i> of the Indian subcontinent: Reveals implication in Nitric oxide activation and role in limiting parasite development <u>Bali P</u> , Sohail M, Kaul A, Singh OP, Dash AP, Adak T
P2.7	Homology modeling of E-Protein [Envelope Protein] from <i>Japanese encephalitis Virus</i> for vaccine designing <u>Barai RS</u> , Gupta SK, Shakya JK, Vishwakarma NP
P2.8	High level soluble expression of PvLDH, its biochemical characterization and generation of antibodies <u>Berwal R</u> , Gopalan N, Chandel K, Prasad GBKS, Prakash S
P2.9	Induction of IgG4 antibodies in endemic normals-a risk factor for acquiring filarial infection <u>Beuria MK</u> , Bal MS, Mandal NN, Das MK
P2.10	Production and Characterization of Monoclonal Antibodies against Japanese Encephalitis Virus for Diagnostic Potential <u>Bhargava R</u> , Abhyankar A, Sahini AK, Rao PVL
P2.11	Molecular Epidemiology of <i>Plasmodium falciparum</i> chloroquine resistance transporter (Pfcrt) gene in Central India <u>Bharti PK</u> , Shukla MM, Singh N

- P2.12 **Intranasal administration of mice with peptide antigens of *P.vivax* coentrapped in microparticles alongwith CpG ODN enhances the systemic and mucosal immune responses**
Bhat AA, Seth R K, Kumar S, Sharma SK, Biswas S, Rao DN
- P2.13 **Schizontocidal interactions between twin combination of artemisinin, clotrimazole or triclosan against *Plasmodium falciparum* in vitro**
Bhattacharya A, Mishra LC, Bhasin VK
- P2.14 **Serum cytokine profiles in *Plasmodium vivax* malaria patients**
Biswas S, and Dash AP
- P2.15 **Mitochondrial Genome Comparison of Some *Plasmodium* Species**
Breh R, Tonapi RV, Hegde VM, Koul R, Desai DV
- P2.16 **Role of autoantibodies in immune protection against malaria**
Chand A, Adak T, Singh OP
- P2.17 **Residues of DDT and its metabolite in blood of exposed factory workers and their correlation with ill health symptoms**
Chand Bikram, Dhillon GPS
- P2.18 **Structure and molecular phylogeny of bacterial community in midgut of *Culex quinquefasciatus* (Diptera: Culicidae) from Assam, India**
Chandel K, Mendki MJ, Tikar SN, Sharma AK, Parikh RY, Souche YS, Prasad GBKS, Vijay V, Prakash S
- P2.19 **Monoclonal antibodies AC-43 and AC-29 against midgut proteins block the malaria parasite *P. vivax* development in *An. culicifacies* (Diptera: Culicidae) and reduce its fecundity**
Chugh M, Gulati BR, Gakhar SK
- P2.20 **Comparative evaluations of Quantitative Buffy Coat (QBC) technique and parasite Lactate Dehydrogenase (pLDH) based immunochromatographic test (optiMAL) against conventional microscopy in the diagnosis of malaria**
Dash M, Parida B, Panda PL, Pattnaik D
- P2.21 **Genetic variability of diurnally sub-periodic *Wuchereria bancrofti* in Nicobarese tribe of Nicobar group of Islands, Andaman and Nicobar Islands, India**
Dhamodharan R, Das MK, Hoti SL, Dash AP
- P2.22 **Development and characterization of nuclear DNA markers in *Anopheles minimus* and *An. culicifacies***
Dixit J, Srivastava H, Dash AP, Das A
- P2.23 ***In Silico* Functional Analysis of Different Proteins of Japanese Encephalitis Virus**
Dixit MR, Sahoo GC, Singh D, Das P
- P2.24 **Phylogenetic Relationships of Nine Palaearctic Members of the *Anopheles maculipennis* Complex Interpreted from ITS2 rDNA Sequence Analysis**
Ghavami MB, Haniloo A, Dinparast DN
- P2.25 **Comparison of a dipstick ELISA with commercial assays for detection of Japanese Encephalitis virus specific IgM antibodies**
Gupta N, Shrivastva A, Tripathi NK, Parida MM, Rao PVL
- P2.26 **Direct Agglutination Test and Enzyme Linked Immunosorbent Assay with Urine Samples for the Diagnosis of Visceral Leishmaniasis**

Hatam GR, Mikaeili F, Sadjjadi SM, Sarkari B

- P2.27 **Polymerase chain reaction diagnosis of malaria vectors, malaria epidemiology and reemergence of *Anopheles minimus* and *Anopheles philippinensis* in Baudh district of Orissa**
Hazra RK, Swain S, Marai NS, Tripathy HK, Mahapatra N, Kar SK
- P2.28 **Apoptotic and Angiogenic Growth Factors Mediate Cerebral Malaria Severity in Central India**
Jain V, Armah H, Wilson N, Tongren E, Ned R, Nagpal AC, Joel PK, Singh MP, Shukla MM, Udhayakumar V, Stiles JK, Singh N
- P2.29 **Polymorphism study of Rhoptry Associated Membrane Antigen (RAMA) gene of *Plasmodium falciparum* – a putative vaccine candidate.**
Kar P, Supakar PC, Dash AP
- P2.30 **CIIMS approach for the development of diagnostic method (s) for diagnosis of Chikungunya infection**
Kashyap RS, Ramteke SS, Chandak NH, Deshpande PS, Chourasia SR, Rajan AN, Nayak AR, Barokar JR, Purohit HJ, Taori GM, Dagianwala HF
- P2.31 **Membrane antigen of *Leishmania donovani* in combination with adjuvant affords partial protection against murine visceral leishmaniasis**
Kaur S, Kumar S, Nagill R, Kaur T, Raina P
- P2.32 **Immune responses in Balb/c mice immunized with different doses of parasite with or without adjuvant**
Kaur T, Athokpam VD, Kaur S
- P2.33 **Cloning and Expression of *P. falciparum* specific L-lactate dehydrogenase gene**
Keluskar PP, Karthik R, Ingle SS
- P2.34 **Cloning and expression of 42 kDa fragment of *P. cynomolgi* B merozoite surface protein-1**
Kumar N, Kaushal NA, Kaushal DC
- P2.35 **Effect of anti-mosquito haemolymph antibodies on the fecundity of malaria vector *An. culicifacies***
Kumari A, Chugh M, Gakhar SK
- P2.36 **Clinical significance of molecular determinants of drug resistance in *P. falciparum* isolates**
Mallick PK, Valecha N, Sharma SK, Yadav RS, Eapen A, Bhat RM, Bhasin VK, Dash AP, Joshi H
- P2.37 **Selection of suitable Random Amplified Polymorphic DNA marker to Study Genetic Diversity among Different Mosquito Species**
Mendki MJ, Sharma AK, Tikar SN, Parashar BD, Vijay V, Prakash S
- P2.38 **Low serum zinc levels in Bihar: Associated with kala-azar endemicity**
Mishra J, Carpenter S, Singh S,
- P2.39 ***In vitro* interactions between artemisinin, triclosan or ketoconazole combinations against blood stages of *Plasmodium falciparum***
Mishra LC, Bhattacharya A, Bhasin VK
- P2.40 **Antimalarial drug prescribing practices in two districts of Jharkhand state, India: Changed Drug Policy status**
Mishra N, Valecha N, Shahi B, Sharma S, Dash AP
- P2.41 **Polymorphism studies of *Anopheles* genes modulating defense response during *Plasmodium* invasion inside the mosquito**

Mohanty A, Singh DV, Dash AP, Hazra RK

- P2.42 **Induction of programmed cell death of embryogenic stages in filarial nematodes: a novel approach for anti helminthic chemotherapy**
Mohapatra AD, Satapathy AK, Sahu BR, Ravindran B
- P2.43 **A transient receptor potential channel homologue in *Anopheles* identified by screening a cDNA library with an antiserum against midgut glycoproteins**
Moorthy SAV, Ramasamy R
- P2.44 **Analysis of D3 domain of 28S ribosomal DNA of *Anopheles fluviatilis* specimens from Iran reveals two Taxa**
Naddaf SR, Razavi MR, Assmar M, Ghazinezhad B
- P2.45 **Protective efficacy of heat-killed and autoclaved antigen against murine *visceral leishmaniasis***
Nagill R, Mahajan R, Kaur T, Kaur S
- P2.46 **TLR-2, TLR-4 and CD14 polymorphism in Human Filariasis and *P. falciparum* Malaria**
Panda AK, Satapathy AK, Sahoo PK, Sharma S, Ravindran B
- P2.47 **A Filarial glycoprotein interacts with TLR4**
Panda SK, Satapathy AK, Rath S, Bal V, Ravindran B
- P2.48 **In silico 3D structure prediction of “matrix protein 1 of influenza a (h5n1) virus”, responsible for the bird flu disease**
Patel A, Rishi V, Smita S, Sarangi AN
- P2.49 **Immuno-epidemiology of pregnancy-associated malaria in central India: determination of antibodies in maternal and cord blood against different stage specific peptide**
Patel R, Jain V, Silawat N, Singh PP, Udhayakumar V, Biswas S, Singh N
- P2.50 **Minisatellites: A useful marker for population genetic studies of *Plasmodium vivax* in India**
Prajapati SK, Eapen A, Bhatt RM, Singh N, Adak T, Yadav RS, Dev V, Rizvi MA, Dash AP, Joshi H
- P2.51 **Distribution of *Plasmodium vivax* ‘Old world’ and ‘New world’ sub-type in India**
Prajapati SK, Shalini S, Singh R, Valecha N, Sharma SK, Yadav RS, Eapen A, Dev V, Kumar A, Bhatt RM, Das MK, Shukla MM, Dash AP and Joshi H
- P2.52 **Effect of Chloroquine Preventive Intermittent Treatment (PIT) for Malaria among the pregnant women**
Purohit B, Mahapatra A, Hansdah DP
- P2.53 **Impairment of stimulation dependent induction of CD26 compromises T cell recruitment in human visceral leishmaniasis**
Rai AK, Srivastva SK, Singh A, Thakur CP, Mitra DK
- P2.54 **Organochlorine Insecticide Residues in Human Milk and Blood samples of Uttarakhand state, India.**
Rai S, Dua VK, Chopra AK, Dash AP
- P2.55 **Generation of a CD4⁺ Th1 type of immune response through subcutaneous route of immunization against murine *visceral leishmaniasis***
Raina P, Kaur T, Mukherjee S, Garg N, Kaur S
- P2.56 **Biochemical and Immunochemical characterization of filarial acid phosphatases**
Rathaur S, Singh A, Yadav M, Rai R

- P2.57 **Lymphatic filariasis: Immune response to an immunoprotective antigen from *Setaria cervi***
Rathaur S, Rai R, Srivastava S, Srikanth E
- P2.58 **Functional Diversity of Different Proteins of Dengue viruses**
Sahoo AK, Panda CK, Mohanty R, Pattnaik S, Panigrahi J, Sahoo GC
- P2.59 **Transcuticular uptake of host immune molecules and cells by endocytosis in filarial nematodes**
Sahu BR, Mohapatra AD, Satapathy AK, Ravindran B
- P2.60 **Role of microparticles in pathogenesis of cerebral malaria**
Sahu U, and Ranjit MR
- P2.61 **Polymerase Chain Reaction based investigation of *kdr* mutation in a population of *Culex quinquefasciatus* in Tezpur, Assam**
Sarkar M, Bhattacharyay IK, Baruah I, Srivastava RB
- P2.62 **Evaluation of a noninvasive antigen-based ELISA for diagnosis of visceral leishmaniasis**
Sarkari B, Hatam GR, Mikaeili F, Sadeghi H
- P2.63 **Serological investigations of West Nile virus in horses in the east of Romania**
Savuța Gh, Moroșan ȘZ, Aniță D, Aniță A, Ludu L, Tănase O, Ionescu A, Kiss BJ, Marinov M jr., Răileanu Ș
- P2.64 **Electrophysiological and behavioural response of *Anopheles stephensi* to synthetic fatty-acid esters**
Seenivasagan T, Sharma Kavita R, Rao AN, Ganesan K, Malhotra RC, Agrawal OP, Prakash S
- P2.65 **Production and Partial Characterization of Monoclonal Antibodies Against Erythrocytic Stages of *Plasmodium vivax***
Seth RK, Sharma G, Bhat AA, Prasad GBKS, Rao DN, Dash AP, Biswas S
- P2.66 **Simultaneous determination of curcumin and piperine in plasma using high performance liquid chromatography**
Sethi P, Dua VK, Gupta NC, Valecha N, Dash AP
- P2.67 **Molecular analysis of *P. vivax*-refractory *Anopheles culicifacies* mosquito**
Sharma A, Adak T, Rodrigues J, Agrawal N, Kajla M, Chauhan VS, Bhatnagar RK
- P2.68 **Molecular characterization of nitric oxide synthase in *Anopheles culicifacies*: a novel putative *Plasmodium vivax* immune responsive mechanism for refractoriness**
Sharma A, Ray S, Sharma JK, Raghavendra K, Adak T, Dash AP
- P2.69 **Molecular Phylogenetic Study of *Culex quinquefasciatus* Mosquitoes from Different Geographical Regions of India Using 16S rRNA Sequences**
Sharma AK, Mendki MJ, Tikar SN, Chandel K, Parikh RY, Shouche YS, Parashar BD, Vijay V, Prakash S
- P2.70 **Prevalence of point mutations in the *pfprt*, *dhfr* and *dhps* genes of *Plasmodium falciparum*: molecular surveillance of antimalarial drug resistance in northeastern India**
Sharma G, Seth RK, Dev V, Joshi H, Bhattacharya PR, Valecha N, Dash AP, Biswas S
- P2.71 **Genome similarities and differences between *Plasmodium falciparum* and *P. vivax***
Sharma M, Dash AP, Das A
- P2.72 **Studies on the immunodiagnostic potential of 63kDa antigen of *Leishmania donovani* in Balb/c mice**
Sharma M, Kaur T, Kaur S

- P2.73 **Leishmanicidal activity and therapeutic potential of some medicinal plants**
Sharma U and Singh S,
- P2.74 **Cytogenetic studies in malaria mosquito, Anopheles stephensi Liston**
 Shetty NJ
- P2.75 **Synthesis and biological evaluation of Mannich bases of indole derivatives against the cysteine protease falcipain-2 and a chloroquine resistant strain of *Plasmodium falciparum***
Shukla G, Kumar N, Chandra H, Mishra AK
- P2.76 **Investigation on the response of *P. falciparum* malaria to chloroquine in Haldwani area of district Nainital, Uttaranchal**
Shukla RP, Sharma SN, Arya OP, Valech N, Dhiman RC, Dash AP
- P2.77 **Role of CR1 Knops polymorphism in the pathophysiology of malaria: Indian Scenario**
Singh A and Gandhi M
- P2.78 **Sequence variation in T-helper cell epitopes (Th2R and Th3R) of Circumsporozoite protein of *Plasmodium falciparum* isolates from India.**
Singh JPN, Verma S, Srivastava N, Bhattacharya PR
- P2.79 **Allelic Variation and Immunogenicity of Synthetic Peptides of T-helper Cell Epitopic Regions of Circumsporozoite Protein of Plasmodium falciparum Isolates from India**
 Singh JPN, Verma S, Bhattacharya PR
- P2.80 **The efficacy of novel benzimidazoles drugs against *Plasmodium falciparum* in vitro**
Singh S, Tiwari AK, Mishra AK
- P2.81 **Characterization and phylogenetic analysis of the *vir* gene family in *Plasmodium vivax***
 Singh V, Gupta B, Kumari P, Das A
- P2.82 **In silico 3d structure prediction of “matrix protein 1 of influenza a (h5n1) virus”, responsible for the bird flu disease**
 Singh VP, Rishi V, Smita S, Sarangi AN, Patel A
- P2.83 **Alleles -308A and -1031C in the TNF- α Gene Promoter Do Not Increase the Risk but Associated with Circulating levels of TNF- α and Clinical Features of Vivax Malaria in Indian Patients**
Sohail M, Kaul A, Bali P, Raziuddin M, Singh MP, Singh OP, Dash AP, Adak T
- P2.84 **Multilocus nuclear DNA markers reveal phylogenetic status of malaria and dengue vectors**
Srivastava H, Dixit J, Kar P, Raghavendra K, Singh OP, Dash AP, Das A
- P2.85 **Discrimination of members of the Anopheles annularis complex in Orissa by PCR, PCR-RFLP and SSCP method**
Swain S, Mahapatra N, Parida SK, Marai NS, Tripathy HK, Hazra RK
- P2.86 **RAPD based DNA amplification in temephos resistant and susceptible *Aedes aegypti***
 Tikar SN, Kumar A, Mendki MJ, Sharma AK, Prasad GBKS, Prakash S
- P2.87 **Ant malarial activity of 1,2,4 triaminoazole derivatives and their pre-radio studies with ^{99m}Tc**
Tiwari AK, Singh VK, Shukla G, Mishra AK
- P2.88 **Current and Previous Mass Drug Administration (MDA) assessment impact was observed in lymphatic filariasis Control Programme in Surat city, India**
Vaishnav KG and Patel IC

- P2.89 **A need to change Drug Policy for antimalarials against uncomplicated *P. falciparum* malaria in highly endemic area of Jharkhand.**
Valecha N, Shahi B, Srivastava P, Das MK, Dash AP
- P2.90 **Assessment of therapeutic efficacy of Artemether/Lumefantrine (Coartem) -An Artemisinin-based Combination Therapy in the treatment of un-complicated *P. falciparum* malaria in Assam**
Valecha N, Padhan K, Srivastava P, Phookan S, Dev V, Dash AP
- P2.91 ***In vitro* sensitivity of Indian *Plasmodium falciparum* strains to antimalarial agents**
Valecha N, Anvikar AR, Mohanty SS, Singh V, Dash AP
- P2.92 **Malaria treatment practices in public and private health sectors in Orissa**
Valecha N, Reetha AM, Tyagi PK, Haque MA, Sharma SK, Dash AP
- P2.93 **Therapeutic efficacy of artesunate plus sulphadoxine/pyrimethamine and artemether-lumefantrine for the treatment of uncomplicated *Plasmodium falciparum* malaria in Orissa**
Valecha N, Mohanty SS, Tyagi PK, Sharma SK, Dash AP
- P2.94 **Anti-malarial Properties of some plants from Garhwal Region of North- west Himalaya**
Verma G, Dua VK, Atul PK, Adak T, Dash AP
- P2.95 **Regionally unbiased restricted polymorphism and Immunogenicity of T-helper cell epitopic regions of Circumsporozoite protein of *Plasmodium falciparum* isolates from India**
Verma S, Singh JPN, Srivastava N, Bhattacharya PR
- P2.96 **Recombinant refolded envelope protein (domain III) of Japanese Encephalitis virus expressed in *E. coli* binds heparan sulfate**
Verma SK, Babu JP, Gupta N, Bansal I, Pattnaik P, Rao PV
- P2.97 **Systemic immune response of rabbits to mucosal immunization with *Lactococcus lactis* expressing a malaria parasite protein.**
Yasawardene SG, Leenhouts K, Ramasamy MS, Ramasamy R