

INDIAN SOCIETY FOR ATHEROSCLEROSIS RESEARCH NEWSBULLETIN

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MESSAGE FROM THE PRESIDENT ISAR

Dear Colleagues,

It is a privilege and honour to serve ISAR as a president for the 2nd consecutive year.

I would like to thank all of you for the success of the ISAR, specially ISARCON in Nov 2012 and making it a highly productive and creative year for ISAR. As you are aware that the world is struggling with the inevitable process of atherosclerosis taking a toll on several lives every year, there is a constant need to keep abreast of latest developments in this field, so that we can be empowered to meet this challenge effectively.

ISAR Annual Scientific Conference provides a wonderful opportunity to all of us, to meet and interact with each other and share our research, knowledge and clinical experience in all facets of atherosclerosis and care.

ISARCON-2013 is scheduled to be held on November 22-23, 2013 at Amala Institute of Medical Sciences, Thrissur, Kerala will be yet another enriching scientific experience, where we shall strive hard to meet the expectations of clinicians and researchers alike. Please join this scientific feast through which we will attempt to bridge the gap between contemporary knowledge and exciting new vistas that would help translate all recent advances in atherosclerosis research to provide better understanding of disease, diagnostic and therapeutic modalities. Comprehensive details about this prestigious conference are available on the conference website, www.isar.co.in.

I look forward to welcome you and your families to ISARCON-2013, Kerala.

Thanks for your support for these two years of my presidentship period of ISAR.

With Best Wishes

**Dr. Jayashree
Bhattacharjee**
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MESSAGE FROM THE SECRETARY ISAR

Dear Members .

Greetings from ISAR Secretariat , Delhi

It has been a pleasure and honor to work as Secretary ISAR for the past four years.

I have tried to evolve this prestigious society further with transparency and sincerity

I thank all office/executive members particularly **Dr J. Bhattacharjee** and **Dr Anupam Prakash** , as also ALL members for their enthusiastic response to my endeavours. Some highlights -

1. **New Award** Besides the Existing Awards we are privileged to **start** the **Lord SREENIVASA of Seven Hills Gold Medal for the best original Research Paper** w.e.f. ISARCON 2013.
2. **Isar Commentaries** : I am happy to note that the response to ISAR commentaries at the ISAR website, an informal way of sharing your research work/ conferences attended/awards received has increased. Do check the current as well as archives
3. **Awards to ISAR members in International Conferences** : It is heartening to note that our members , **Dr Kamna Singh (LM-303)** and **Dr Surajeet Kumar Patra (LM 323)**Both received YOUNG INVESTIGATOR AWARDS, at **APSAVD .Phuket ,Thailand, Oct, 2012** .ISAR. secretariat congratulates them and encourages young members to participate in ISAR as well as related conferences in India as well as Globally
4. **News updates** are being regularly sent to all members. If you are not receiving yours, possible erroneous email id in our records must be checked. For this, please communicate to secretaryisar@gmail.com along with your Life membership number .
5. **ISARCON 2013** on "Innovations in Atherosclerosis and cardiac disease " will be held on November 22-23 , 2013 at Amala Institute of Medical Sciences, Thrissur, Kerala. The brochure is uploaded at the conference/current section of website .Organizing Secretary : Dr Jose Padikkala (jpadikkala@rediffmail.com)
6. **This Newsletter ISAR 2013** is also uploaded at the current section of Newsletters at www.isar.co.in
7. **Elections ISAR**.The newsletter has the Nomination Form for the National ISAR Elections to be held at ISARCON 2013 at Thrissur . The Last date of sending your nominations is 15th October 2013 and they are to be sent to our very senior ISAR member and Past President **Dr D.K.Srivastava** who has kindly consented to be Election Officer , at his email dksrivastava@jamiahamdard.ac.in

I feel happy to be able to contribute to a forum dedicated to solving the enigma of Atherosclerosis.

With best wishes to all.

Dr (Prof.) **RITU SINGH,**
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MESSAGE FROM THE JOINT SECRETARY ISAR

Dear Members, It is a grand contentment to be in touch to my colleagues and members of the ISAR through this newsletter. This is my second communication after assuming the post of Joint Secretary of ISAR. I am honored by the confidence of the members that they have laid on me and I am obliged to them for their shore up. Current reports articulate that India will befall the world's capital of heart diseases by 2015 and the number of doctors available then will be hideously derisory to cater to the increasing number of heart patients. Two echelons of research into early-onset atherosclerosis are indispensable: (i) Basic research to identify novel and emerging factors that augment the risk of heart disease and (ii) Clinical research to develop new treatments that come within reach of reducing the risk of heart attack and other medical dilemmas caused by atherosclerosis. Making lifestyle changes is an exceedingly valuable way of thwarting or overturning the process of atherosclerosis, as well as reducing the risk of developing a cardiovascular disease (CVD), such as coronary heart disease, heart attack, or stroke. As the data are foreboding about the increasing rate of CADs, it is the need of the hour to stamp out heart disease to a nominal amount. I indubitably hope that the ISAR will lend a needy helping hand to accomplish better in achieving this goal.

**With my best wishes,
Dr P.Subramaniam
Professor of Biochemistry
Department of Biochemistry and Biotechnology
Annamalai University, Chidambaram
&
Convenor ISARCON 2012**



MESSAGE FROM THE TREASURER, ISAR

It is my privilege to communicate with the ISAR fraternity in the capacity of Treasurer, ISAR.

The ISAR has been consistently progressing over the years and the financial status of the society is stable. As per the decision of the last GBM (2011), I will request all the members to ensure that they have made the one-time contribution of Rupees One Thousand and five hundred only by way of DD in name of Treasurer, ISAR, which will obviate the earlier need to pay Rs. 150/- every year towards contribution of IAS (International Atherosclerosis Society) annual fees. As we are aware the current membership fee has been updated to 3000/-, with no yearly payment of IAS fee, hence the requirement from older members. I will also request all the ISAR members to encourage and coax their friends and colleagues to make new LifeMembers of the ISAR. It is very encouraging to note that another Oration Award is being added to the ISAR, and this indicates that ISAR is progressing well. I am glad to have been bestowed the honour and trust of ISAR members to work on the Executive Board of the ISAR. I am sure that the upcoming conference at Thrissur, ISARCON 2013 will be a grand success. Wishing all members a great year ahead.

**Dr Anupam Prakash ,
Assoc. Professor of Medicine
Lady Hardinge Medical College
and S.S.K. Hospital
New Delhi
&**

Treasurer ISAR



Report of the 25th Annual Conference of the ISAR (ISARCON 2012)

The International Conference on “**Recent Trends in Atherosclerosis and 25th Annual Conference of The Indian Society for Atherosclerosis Research (ISARCON-2012)**” was organized by the Department of Biochemistry and Biotechnology in collaboration with the “**Center of Advanced studies in Marine Sciences**”, from September 01st - 03rd, 2012 at Annamalai University, Annamalainagar. The honourable **Vice Chancellor** of Annamalai University, **Dr. M. Ramanathan** inaugurated the function and delivered the inaugural address at Libra Hall, Annamalai University. The Chairperson and Convener of the conference, Dr. N. Nalini, Professor, Department of Biochemistry and Biotechnology welcomed the gathering. The Souvenir of the conference was released by the honourable Vice Chancellor of Annamalai University and the first copy was received by Dr. Jayashree Bhattacharjee, President of the “Indian Society for Atherosclerosis Research (ISAR)”. Dr. Ritu Singh (Secretary, ISAR), Dr. R. Panneerselvam (Dean, Faculty of Science), Dr. T. Balasubramanian (Dean, Faculty of Marine Sciences), Dr. L. Pari (HOD, Dept. of Biochemistry & Biotechnology) and other members of the society also graced the function. Dr. M. Shenbagam (Organising Secretary, ISARCON 2012) proposed the vote of thanks.

Dr **P.A. Kurup Oration** award was conferred on **Dr. N. Nalini**, Professor, Department of Biochemistry and Biotechnology and also the Chairperson & Convener of the conference. After the inaugural function on 1st September 2012, the academic deliberations started with the **key note address** delivered by **Dr. Naranjan S. Dhalla** from USA where he highlighted the role of antiplatelet agents in the prevention of atherosclerosis, myocardial infarction and arrhythmias.

The next session was chaired by **Dr. Kailash Prasad** from Canada and **Dr. Venugopal P. Menon** from India in which **Dr. Nilanjana Maulik** from USA delivered a plenary lecture on “Inhibition of prolyl hydroxylases: a novel therapy for peripheral arterial and cardiovascular diseases”. The subsequent session was followed by young investigator award programme in which seven students from various Universities presented their paper. In the afternoon, parallel sessions were conducted in two halls where scientists from various Universities delivered invited lectures and the student participants presented their paper. The poster sessions were also conducted where students displayed their posters. The **executive committee meeting of ISAR** was held at 6 p.m. that day. On day 2, the first session started with the presentation by **Dr. N. Nalini**, Professor, Dept of Biochemistry & Biotechnology for **Dr. P. A. Kurup oration award**. The next session was chaired by **Dr. Naranjan S. Dhalla** from Canada and **Dr. P. R. Sudhakaran** from India in which **Dr. Kailash Prasad** from USA delivered a plenary lecture on “Beneficial effects of statins in reduction of restenosis following percutaneous coronary intervention (PCI)”. The next plenary lecture was delivered by **Dr. P. Kuppusamy** from USA on “Sense & Sensibility” of Oxygen in Myocardial Infarction and Therapy. The subsequent parallel sessions were followed by invited lectures by eminent professors and presentations by student participants. The annual general body meeting of ISAR was held on the evening of 2nd September, 2012 followed by a cultural programme.

The 3rd day of the conference was organized at the “Center of Advanced studies in Marine Sciences”, [Parangipettai](#). The first session started by the invited lecture delivered by **Dr. Maria Pikoula** from UK on “Investigating the interaction of an endothelial glycocalyx model with simulated water flow in the atomic scale” followed by scientific sessions. **At the end of the day, valedictory function was held at the “Auditorium”, “Center of Advanced studies in Marine Sciences”, [Parangipettai](#). The Dean, Faculty of Marine Science, Prof. Dr. T. Balasubramanian, welcomed the gathering. The honourable Registrar of Annamalai University “Dr. R. Meenakshisundaram” delivered the valedictory address. The prize winners of the “Young Investigator award programme” and “oral/poster” presentations were announced by the Chairperson and convener of the conference, Dr. N. Nalini. The honourable Registrar of Annamalai University, “Dr. R. Meenakshisundaram” distributed the prizes to the winners.**

Totally there were about twelve scientific sessions and two poster sessions. Over 150 delegates from national and overseas participated in the conference. The conference dealt with the recent trends and development in the field of Atherosclerosis Research. The Conference laid a platform to the students and budding researches to share their ideas and knowledge with eminent Scientists from all over the world.

Hypercoagulability in atherosclerosis: missing piece in the jigsaw puzzle?

Dr Binita Goswami ,MD, DNB, MNAMS

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With the advent of this century, non communicable diseases have steadily gone on the rise and acute coronary syndrome aka ACS alleged as the kingpin of non-communicable diseases is a significant cause of morbidity and mortality in the modern day community. Acute coronary syndrome is characterized by a ruptured, vulnerable plaque and subsequent intraluminal thrombus formation. Changes in vessel wall architecture and composition during atheroma formation ultimately lead to plaque rupture, with most coronary occlusive events occurring in the setting of fulminant intraluminal thrombosis.

Besides local hypercoagulability, a number of studies have shown a profound systemic imbalance of the hemostatic system with a shift towards increased pro-coagulation and decreased fibrinolysis. The hemostatic system not only seems to play an important role during the acute event but may also be important in the initiation and progression of the chronic event underlying the acute event, atherosclerosis. Thrombosis and atherosclerosis are closely related phenomena as thrombosis of a disrupted atherosclerotic plaque triggers most ischemic cardiovascular events. Because thrombi are resolved through the action of the fibrinolytic system, researchers have hypothesized that impaired fibrinolytic function may be a risk factor for ischemic events. It has been hypothesized that endogenous markers of fibrinolytic function may identify certain otherwise healthy individuals predisposed to clinically pathologic thrombosis.

Recent consensus and current literature brings to the fore the less understood but more significant role of inflammation and inflammatory factors in the disease per se that underlines the importance of the association of circulating biomarkers of inflammation, endothelial dysfunction, coagulation and fibrinolysis with risk of incident major CAD events (MI or CAD death), after adjustment for traditional CAD risk factors.

Fibrinogen, an acute phase protein and a clotting factor, appears to be an independent risk factor for cardiovascular disease, but the mechanism(s) are still uncertain. Fibrinogen controls plasma and red cell viscosity, so elevated levels of fibrinogen may decrease blood flow, particularly through stenotic vessels. Through conversion to fibrin, fibrinogen may promote thrombus formation. A study in Framingham offspring population observed that fibrinogen was associated with traditional cardiovascular risk factors. Elevation of fibrinogen may provide a mechanism for risk factors to exert their effect.

Recently, fibrin D-dimer, the degradation product of cross-linked fibrin, has garnered increasing interest for several reasons. First, it can be considered as a global marker of the turnover of cross-linked fibrin and activation of the hemostatic system. Second, in contrast to several other markers of haemostasis, elevated D-dimer levels have been found to predict the risk of future coronary events independent of conventional risk factors in initially healthy, middle-aged male and female subjects, in elderly men and women, as well as in patients with known peripheral arterial occlusive disease and after myocardial infarction. Also modestly elevated circulating D-dimer values reflect minor increases in blood coagulation, thrombin formation, and turnover of cross-linked intravascular fibrin (which is partly intra-arterial in origin) and that these increases may be relevant to coronary heart disease.

It has also been demonstrated that plasma homocysteine level increases after tissue damage and elevated plasma levels of homocysteine promote endothelial damage and adhesion of leukocytes to the endothelial surface. So, a high plasma homocysteine level would be an indicator of continuing tissue damage and an enhancer of inflammatory vascular wall thickening rather than an initiator of atherosclerosis.

The molecular mechanisms behind the etiopathogenetic role of the coagulation cascade in atherosclerosis need to be understood implicitly so as to evaluate the diagnostic and prognostic implications of the various thrombotic biomarkers as potential tools for CAD research and subsequent clinical applicability.

Angiotensin Converting Enzyme and its Association with Cardiovascular Diseases

Khemchandra and M. Zahid Ashraf

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During the past three decades, it has been well established that vascular endothelium plays a pivotal role in maintaining vascular tone. The initial discovery of endothelial-dependent vasodilation by Furchgott and Zawadzki in 1980, followed by identification of endothelial nitric oxide strongly corroborated the role of endothelial cells in physiology and pathophysiology (1). Angiotensin converting enzyme is an enzyme (EC 3.4.15.1.) produced by endothelial cells to help regulate blood pressure. It catalyzes the conversion of angiotensin-I, an inactive protein (dipeptidylcarboxypeptidase) in plasma and tissues to angiotensin-II, in a substrate concentration dependent manner (2). Angiotensin-II functions as a strong vasopressure and causes arteries to contract, making them temporarily narrower, thus increasing the pressure of blood flowing through these arteries. ACE produce

throughout the body but especially concentrated in the lungs. Action of ACE is restricted by a penultimate prolyl residue and angiotensin-II is therefore not hydrolysed by the converting enzyme. ACE is located on the luminal surface of vascular endothelial cells throughout the circulation. It is a most important component of Renin Angiotensin System (RAS) and inactivates bradikinin (3). The principal steps in renin angiotensin system include enzymatic cleavage of angiotensin- I from angiotensinogen by renin, conversion of angiotensinogen- I to angiotensinogen –II by ACE and degradation of angiotensin- II by peptidases (Figure-1) (4). Angiotensinogen is a circulatory protein substrate for renin. It is a glycoprotein with a mol. Wt. 57000 KDa and is synthesized in liver. Angiotensinogen production is increased by glucocorticoids and estrogens. Thus the plasma angiotensinogen concentration is increased in patients treated with estrogens and glucocorticoids. It is also increased in pregnant women taking oral contraceptives. The increased angiotensinogen concentration is thought to contribute to the hypertension that occurs in these situations.

Angiotensin-I contains the peptide sequences necessary for all of the action of the renin angiotensin system. Angiotensin-I may also be cleaved by plasma or tissue aminopeptidases to form (des-Asp⁻¹) angiotensin-I.. This is converted to angiotensin-II by angiotensin converting enzyme (ACE). Angiotensin –II is a hormone that circulates in blood and has many effects on the cardiovascular system. Its main role is to constrict blood vessels. This constriction can cause high blood pressure and increase the work required for the heart to pump blood into the kidneys main arteries. This causes a problem for the heart muscles if it has been weakened by a heart attack or heart failure. Blocking productions of angiotensin-II with ACE inhibitors prevents constriction of blood vessels, lowers blood pressure and loosens the energy the heart has to expand from beat to beat (8). In many cardiovascular diseases, angiotensin-II is present in abnormally high quantities. The importance of decreasing the damage caused by high levels of angiotensin-II is increasingly being recognized. In addition to the role it plays in constricting arteries and raising blood pressure, angiotensin-II is also ‘‘growth promoting’’ in a negative way, in that it causes increase in size or thickness of several cardiovascular structures. High levels of circulating angiotensin-II lead to thickening of the heart, a condition known as hypertrophy. Hypertrophy of the heart has long been recognized as a marker for high risk of death caused by heart disease. In the presence of high level of angiotensin-II, walls of blood vessels become thicker and stiffer, in addition to constricting and this is thought to predispose to cholesterol deposits and blockage in the arteries which can lead to heart attacks and strokes. Hypertension (HTN), is a chronic medical condition in which the blood pressure in the arteries is elevated (9). The most common form of human hypertension is essential hypertension, the causes of which are still unknown. Other forms of hypertension are secondary hypertension caused by endocrine and renal disease (10). Few of them involve over activity of RAS is usually caused by increased secretion of renin with an increase in plasma angiotensin-II concentration. The ACE inhibitors are prescribed to prevent or reverse the hypertrophy of the heart and vessels walls. ARB-1(angiotensin receptor blocker-1) is one of them used for hypertrophy (figure.2)

ACE Polymorphism and Cardiovascular Diseases

Several studies have reported its genetic association with cardiovascular diseases. ACE gene is one of the most intensely studied genes because of the key role in the renin- angiotensin system (RAS). Inappropriate activation of the RAS may play a part in the development of many cardiovascular diseases including presclampsia (11-12). ACE is located on chromosome 17q23 and consist of 26 exons and 25 introns. Insertion deletion (I/D) polymorphism in this gene refers to an *alu* repetitive sequence 287 bp long in intron 16 resulting in three genotypes. The DD and II homozygous and ID heterozygous. The I/D polymorphism is reported to determine circulating and tissue ACE levels, such that individuals homozygous to D allele have higher tissue and plasma ACE concentration than hetrozygotes and II homozygotes. The I/D polymorphism is associated with cardiovascular diseases in many reports. (13-17).

The effects of genetic polymorphisms were investigated in the prognosis of coronary artery disease (CAD) by Ai Yuan Zhang et al in 2010 (18). One hundred and fifty five patients of CAD were prospectively recruited; they were sub grouped as single vessel disease (SVD) and multiple vessel disease (MVD). All patient were detected I/D polymorphism of ACE gene. The patients were followed for 10 to 65 months. End points were major adverse cardiovascular events (MACE) including angina, myocardial infarction and cardiac sudden death. During the follow up period, MACE developed in 81 patients (73 patients with angina, 7 with myocardial infarction and one with cardiac sudden death). The MVD patients were more probable to developing MACE during follow up. The frequencies of DD genotype of ACE in patients with MACE were significantly higher ($p < 0.001$).

Many studies have demonstrated the genetic association between ACE gene and blood pressure variations (19-24). In Indian context, Badaruddoza, et al (25) investigated the association of I/D polymorphism of ACE gene with hypertension in Bania community of Punjab. The 50 hypertensive patients and equal number of control were selected for study. The frequencies of II, ID and DD genotype among the control group were 26% , 54% and 20% respectively, whereas, in hypertensive group the same were found to be 22%, 32% and 46% respectively. Thus ACE, DD genotype was higher in hypertensive group ($p < 0.05$) (26-27).

Overall studies indicate that ACE level in blood and polymorphism (I/D) may be used as marker for cardiovascular diseases. The ultimate goal of these genetic studies is to deliver personalized medicine. In the future, one could envision an individualized therapeutic approach based on genotyping for specific sets of polymorphisms.

Some Relevant conferences

XVII International Symposium on Atherosclerosis

Amsterdam, The Netherlands May 24-27, 2015

<http://www.isa-2015.com/home-isa-2015>

Cardiometabolic Health Congress

(Boston, MA, USA, October 2-5, 2013)

US\$100 Discount for IAS members

congress website: <http://www.cardiometabolichealth.org/index.asp>

82nd European Atherosclerosis Society Congress (EAS 2014)

<http://www.eas-society.org/>

20th ASEAN Federation Of Cardiology Congress 2014(AFCC 2014)

<http://www.nham-conference.com/?event=3&cmd=home>

ORATION AWARDS

Nominations were invited for **Dr. R.N Chakraverty Oration (Clinical Research in Atherosclerosis)** .. The awardee has been selected and will deliver the Oration in the forthcoming Annual Conference of the ISAR, ISARCON 2013 at Thrissur. The last date for receipt of the nominations was 15th Sept 2013

Scientists who have contributed significantly to atherosclerosis research may be nominated by life members of the society for the oration award..Every year the nominations are invited by the **Secretary, ISAR by e-mail** (secretaryisar@gmail.com) and last date of receiving informed thru website and emails. Required is

1. Bio-data of the nominee
2. Abstract of oration (about 250 words)
3. ISAR membership status of the nominee
4. Recommendations from the ISAR life member who is proposing the nomination.

The selected nominee will be required to provide in triplicate a full oration manuscript before the Conference. The oration awardee will receive in appreciation of his/her contribution a plaque and a certificate. His/her local hospitality will be borne by the ISAR Conference Committee.

The P.A.Kurup Oration Award will be awarded in ISARCON 2014 , as the oration Awards alternate yearly

BEST PAPERS (Awards for Research papers presented during the conference).

Three medals for best papers in the following will be awarded at the ISARCON 2013, after presentation and evaluation by the judges of scientific committee. Every year the nominations are invited by the **Secretary, ISAR** by e-mail (secretaryisar@gmail.com) and last date of receiving informed thru website and emails.

- 1. Balaji Endowment Medal for Basic experimental research in atherosclerosis**
- 2. Sri Venkateswara cardiac research medal for Clinical research on atherosclerosis and allied aspects**
- 3. Lord Sreenivasa of Seven Hills Gold Medal for best original research paper**

Criteria for Awards-

1. He/she should be the first author of the paper.
2. The work should have been carried out in India and should be original in content.
3. The author should indicate whether his work should be considered for award on basic research or clinical research.
4. The awarded should be 35 years of age or less,
5. He/she should obtain a certificate from the head of the Institute/Department that the work was primarily carried out by the applicant. The paper should not have been already been published in any scientific journal. However, the authors will be free to publish the paper elsewhere after presentation, provided that it is acknowledged that the paper was presented at the Annual meeting of the ISAR. Only the abstract of the paper will be prepared in the proceedings of the Society.
6. A member who has won the medal against a particular award will not be eligible for a second time, although such a member can be a co-author of a paper for the subsequent award.
7. No member can present more than one paper for the award.
8. The abstract of not more than 200 words indicating the name of the medal/award for which it is submitted at the top of the paper should be sent to the Secretary, ISAR by e-mail only
9. The paper submitted for the award will be screened and judged by a panel of three judges.
10. The decision of the panel of judges will be final and binding on all concerned.
11. The papers so selected for the awards will be presented at the Annual meeting of the Society and 15 minutes will be given to each paper for presentation.
12. In case an award is not given to the paper after presentation, then a certificate of merit will be given.
13. A paper, if selected but not presented at the conference will not be considered for the award.
14. The last date for receipt of the abstracts/applications was 15thSept 2013

Organizing Committee

Chief Patron

Dr. Mohandas K

Patrons

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Dr. Achuthan C R

Dr. Ajith T A

P.R.O.

Mr. Joseph Varghese

26th Annual Symposium of Indian Society for Atherosclerosis Research

Innovations in atherosclerosis and cardiac diseases

November 22-23



ISARCON 2013



Amala
Cancer Research Centre

&



Cardiac Centre
Thrissur - 680 555, Kerala



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ISARCON 2013

Dear Colleagues,

On behalf of the Organizing Committee, we invite you with immense pleasure to attend the 26th Annual Conference, 'ISARCON 2013' of Indian Society for Atherosclerosis Research which will be held at Amala Institute of Medical Sciences, Thrissur, Kerala on November 22-23, 2013. The theme of the symposium is 'Innovations in atherosclerosis and cardiac diseases'. The Committee plans to give an exciting scientific programme including a comprehensive state-of-the-art overview of the current understanding of the origin, progression, treatment and prevention of atherosclerosis. The programme consists of lectures, oral presentations and poster sessions focusing on the key emerging areas of clinical as well as basic sciences of atherosclerosis. The symposium offers unique opportunities for interaction between clinicians and scientists. Expecting your active participation.

Dr. Jose Padikkala
Organizing Secretary

Dr. Ramadasan Kuttan
Organizing Chair Person

Call for Papers

Short lectures and posters related to above mentioned topics are welcome. Abstracts (max. 300 words) should be submitted as word documents to isarcon2013@gmail.com on or before Sep. 30, 2013. All abstracts will be reviewed by a scientific committee and the notification of acceptance or rejection will be informed.

Awards: Oration and best paper awards will be given during the conference. For further details visit www.isar.co.in/awards

Registration

Completed registration form should be sent along with DD September 30, 2013.

Draft Details: In favour of The Organizing Secretary, ISARCON 2013, Payable at Thrissur, Kerala

Registration Fees

	Upto 30th Sep. 2013	1st Oct. 2013 - 31st Oct. 2013	Spot registration
Students	Rs. 1000	Rs. 2000	Rs. 2500
Faculty	Rs. 2000	Rs. 2500	Rs. 3000
Foreign delegates	US \$ 250	US \$ 250	US \$ 250
Accompanying persons	Rs. 1500	Rs. 1500	Rs. 1500

Focus Areas

- Epidemiology
- Risk factors in cardiovascular diseases
- Genetic basis of atherosclerosis
- Vascular biology
- Lipoprotein metabolism
- Inflammation and atherosclerosis
- Anti-coagulant therapy
- Diet and drug in the management of cardiovascular diseases
- Natural products in prevention of atherosclerosis
- Imaging

Reaching Amala

- By Air - 60 Km from Cochin International Airport
- By Rail - 10 Km from Thrissur Railway station
- By Road - Amala is located at Thrissur - Guruvayoor road 11 Km from K S R T C and Sakthan Thampuran bus stand

Invited Speakers

- Dr. Sampath Parthasarathy**, University of Central Florida, College of Medicine, Florida, USA
Dr. Rosalind Marita A, Hoffkine Institute for Training, Research and Testing, Mumbai
Dr. Ritu Singh, Lady Hardinge Medical College, New Delhi
Dr. Sudhakaran P R, University of Kerala, Thiruvananthapuram
Dr. Anupam Prakash, Lady Hardinge Medical College and Smt. Sucheta Kriplani Hospital, New Delhi
Dr. Nibriti Das, All India Institute of Medical Sciences, New Delhi
Dr. Govindan Unni T, Jubilee Medical College, Thrissur, Kerala
Dr. Jayashree Bhattachargee, Lady Hardinge Medical College, New Delhi
Dr. Vijayakumar T, Educare Institute of Dental Sciences, Malappuram, Kerala
Dr. Sherief P M, Rtd. Professor, College of Fisheries Panangad, Cochin, Kerala
Dr. Cibu Mathew, Govt. Medical College, Thrissur, Kerala
Dr. Menon V P, Former Dean, Faculty of Sciences, Annamalai University, Tamil Nadu
Dr. Gupta S R, Cardiologist, Amrutha Heart Care Centre, Tirupathy, AP
Dr. Subrahmanyam, Narayana Medical College and Hospital, Nellore, AP
Dr. Nalini N, Annamalai University, Tamil Nadu

About Amala

Amala Institute of Medical Sciences (AIMS) is a multidisciplinary system of academic, therapeutic research and outreach programmes in medicine. The Institution has a Medical college, General hospital, Ayurvedic and Homoeopathic hospitals and Research Centre. The Institution is well known for oncological and cardiological treatment and its research. The Research Centre has remarkable facility and expertise in cancer and cardiac research and has shown its excellence since the last 20 years. The Institution is located in the valley of Vilangan Hills near Thrissur city towards Guruvayoor. It is well connected by road, rail and air.

General Information

Thrissur, the "Cultural Capital of Kerala" is almost in the centre of Kerala state and is bounded by Arabian Sea in the west and Western Ghats in the east. It houses the Kerala Sangeetha Natak Academy, Kerala Lalita Kala Academy, Kerala Kalamandalam and Kerala Sahitya Academy. The city has a large number of well-known temples including the Thiruvambadi, Vadakkumthandan and Paramekkavu, as well as two famous churches, Lourdes Metropolitan Cathedral and Basilica of Our Lady. Guruvayoor, the abode of Lord Sree Guruvayoorappan and Punnathurkotta, the largest elephant sanctuary in the world is located 23 KM away from Amala. The country's first mosque, Cherama Juma Masjid is situated at Kodungallur near Thrissur. Thrissur Pooram, the most colourful and spectacular temple festival in Kerala is held during April or May. The city is also a big centre for shopping for gold jewellery. The district offers a wide choice of natural places including Athirapally and Vazhachal waterfalls, Peechi and Chimmini dams, beaches, etc. The city has several good hotels to serve the delegates with a range of budget options. For more details visit www.thrissurkerala.com. As you know, Kerala, the "God's Own Country" is one of the most scenic places in India with lush greenery abound by coconut palms, water ways and thick mountains. The district has a tropical humid climate. The hot season from March to May is followed by the South West Monsoon season from June to September. The period from November to February is generally pleasant. The minimum and maximum temperature is expected in the range of 25-32°C. It is our pleasure to invite you to this beautiful part of India to attend the conference.

Accommodation

Accommodation will be arranged in Thrissur city. Daily tariff will be between Rs. 1,500 - 3,000. Arrangements will be made to make cheaper accommodation to students on first come first served basis.

MEMBERSHIP > FORM

Membership > Form

INDIAN SOCIETY FOR ATHEROSCLEROSIS RESEARCH APPLICATION FORM FOR MEMBERSHIP

Name: Dr. /Mr./Mrs.:-

Designation :-

Office Address :-

Phone No. :-

E-mail :-

Academic Qualifications and area of research :-

Type of Membership applied for :-

Nominated by

His/Her Life membership no:

Patron / NRI Rs. 10,000/- Annual/Student Rs. 500/-

Life member of ISAR And IAS Rs.3000/-

One time IAS membership for members before Sept 2011 Rs. 1500/-

Note : DD should be made in name of "Treasurer, ISAR" payable at Delhi.

Dr. Ritu Singh
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Shaheed Bhagat Singh Marg,
New Delhi - 110001
Mobile :- +91 - 09811173213
E-Mail :- drritisingh@rediffmail.com
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Assoc. Professor., Deptt. of Medicine,
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Shaheed Bhagat Singh Marg,
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Phone :- +91-11- 9868329333
E-Mail :- prakashanupam@hotmail.com

ANNOUNCEMENT FOR ELECTIONS

Elections for office bearers and the Executive Council of the ISAR
will be held at

Thrissur , Kerala, 22-23rd Nov 2013

during the Annual Conference of the ISAR (ISARCON 2013).

Applications of nominations/withdrawal should be sent to

Election Officer : Prof (**Dr**) **D.K.Srivastava**
email dkrivastava@jamiahamdard.ac.in

Last date of filing nomination : 15th October 2013
Last date of withdrawal of nomination : 20th October 2013

Nomination Form

To

The Election Officer

Indian Society of Atherosclerosis Research

Elections ISAR 2013

Dear Sir

Herewith I wish to submit my candidature for the forthcoming elections of the Indian Society of Atherosclerosis Research

- | | |
|----------------------------------|--------------------------|
| 1. President Elect | <input type="checkbox"/> |
| 2. Vice-President | <input type="checkbox"/> |
| 3. Secretary | <input type="checkbox"/> |
| 4. Joint Secretary | <input type="checkbox"/> |
| 5. Treasurer | <input type="checkbox"/> |
| 6. Member of Executive Committee | <input type="checkbox"/> |
| 7. State Representative | <input type="checkbox"/> |

My name has been sponsored by

- | | |
|----|------------|
| 1. | (Proposer) |
| 2. | (Secunder) |

Date
Place

Yours Faithfully
Name
Designation

Certified that I have paid the membership fee of the society and that no dues are pending clearance.

(Verification by Treasurer)

Signature of candidate



ISAR Official Website: www.isar.co.in

Secretariat email : secretaryisar@gmail.com

Current Secretariat: NewDelhi

Annual Conferences: ISARCON

This Newsletter Compilation by Dr Binita Goswami & Prof (Dr) Ritu Singh