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ISAR OFFICE BEARERS (2012-2013)

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MESSAGE FROM THE PRESIDENT ISAR

It is my proud Privilege to be associated with the Indian Society for Atherosclerosis Research for the Past 25 yrs. In my capacity as Secretary and now as President, I have tried to contribute to the growth of this prestigious society.

I have personally been working on inflammatory aspects of Atherosclerosis for the last decades and have national and international awards appreciating my research. As Principal of the 1200 bedded Safdarjung Hospital now, I see the widespread impact of this uncontrolled endemic disease and its widely prevalent complications like heart attacks and stroke on a daily basis. It brings me back to the yet unsolved research issues of relative risk, reliable biomarkers and effective management strategies of Atherosclerosis.

ISAR promotes Atherosclerosis research by bringing together members from different fields varying from basic scientist to cardiologist involved in Atherosclerosis Research at a common forum of Conferences and meetings as well as now sharing our Research by our re-modelled website through ISAR Commentaries and Updates on Recent Advances in Atherosclerosis. ISAR encourages young scientists through various Medals and Scholarships.

ISAR promotes integration of basic and clinical research with a focus on understanding of Atherosclerosis translating to development of biomarkers, patient care and management of risk factors guidelines. I am sure the society will make a significant contribution to this end.

With best wishes to all members and looking forward to meeting all at Chidambaram ISARCON-2012

Dr. Jayashree Bhattacharjee

Dir. Professor & Principal

Vardhman Mahavir Medical College & Safdarjung Hospital

New Delhi – 110029

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MESSAGE FROM THE SECRETARY ISAR

Dear Members . .

Greetings from ISAR Secretariat , Delhi. It is a pleasure and honour to be Secretary , ISAR , elected for the second time , at ISARCON -2011 , by this prestigious society .

My thanks are due to all members for their participation in ISAR activities , The President Dr Jayashree Bhattacharjee for her guidance ,Dr Anupam Prakash ex-Secretary and current Treasurer for his efficiency and support in ISAR matters , Dr Subramaniam , Jt Secretary for help in compiling the Newsletter , and Dr J. Gambhir , Vice President for her encouragement and support always. I would also like to thank Our Website operator Mr Rakesh Sharma for his flawless website .

1)The ISAR website www.isar.co.in has been totally remodelled this year and made very informative and interactive. All members are requested to periodically look up the site for ISAR activities , though I email members from the **official continuing email secretaryisar@gmail.com**

2.) **ISARCON 2012** - I hope all our members are planning to participate in the ISAR Annual Conference at Chidambaram Sept 1-3, 2012 , which i am sure will be a grand success under the able organization of **Prof. N. Nalini and Prof. Subramaniam**

3) **ISAR COMMENTARIES , Recent Updates and Newsletter : are forums where members can send in their contributions** Please use this website forum to share your research work (may be Published already) with other members working in similiar fields.

4) **IAS one-time MEMBERSHIP FEE** : Members prior to sept 2011 **must** send Rs 1500/- for a one time contribution to IAS membership . (This excludes the need of the yearly Rs 150/-) .to the Treasurer) , at your earliest convenience.

6) **Participation in International Conferences** : It is heartening to note that our members , are actively participating in IAS conferences (Prof. S.K.Verma- **IAS , Sydney Australia ,2011**) and its member societies (Dr Surajeet Kumar Patra and Dr Kamna Singh , **APSAVD .,Thailand, 2012**) . ISAR Secretariat is pleased to issue membership and representation letters as applicable .

7) It is my great pleasure to inform that **Dr S.R.Gupta** , Former Pofessor of Medicine and I/C Cardiology , S.V.Medical College, Tirupati and a very senior member of ISAR has given donation to ISAR for starting **LORD SREENIVASA OF SEVEN HILLS Gold Medal** for the best original Research Paper .This Award will start at the time of ISARCON 2013

With best wishes to all.

Dr (Prof.) **RITU SINGH,**
Professor of Biochemistry,
Lady Hardinge Medical College and S.S.K.Hospital
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MESSAGE FROM THE JOINT SECRETARY ISAR

Dear Members,

It is a great pleasure to communicate to my colleagues and members of the ISAR through this newsletter. This is my first communication after assuming the post of Joint Secretary of ISAR. I am privileged by the confidence of the members that they have laid on me and I am grateful to them for their support. This is the first newsletter, which I worked in bringing it and I am deeply touched by the liberty that the Secretary, Prof. Ritu Singh has bestowed on me in preparing the earlier draft of the newsletter, who has improved the web site of ISAR to the standards of any International society in a comprehensible way and with full of information. We have had pleasant memories of ISARCON 2011, the annual conference of ISAR, held at JIPMER, Puducherry which was a thriving one and well-attended. I congratulate Prof. S.K. Verma for organizing this conference successfully.

As convener of ISARCON-2012, I also take this opportunity to welcome you all to Annamalai University, Chidambaram to join in the conference. The conference will be held from September 01 to 03, 2012. Prof. N. Nalini, the President-elect of the Society is the Chair Person of the conference. With her valuable proficiency and sincere efforts, I certainly hope that we will make your stay in Chidambaram academically fruitful and enjoyable. Hope to see you at Chidambaram, With 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 Life Members of the ISAR. It is very encouraging to note that another Oration Award is being added to the ISAR fold, 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 Chidambaram, ISARCON 2012 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 24th Annual Conference of the ISAR (ISARCON 2011)

CME on Atherosclerosis was held in JIPMER, Puducherry, An Institution of National Importance Under the Ministry of Health and Family Welfare Government of India on the 24th and 25th of September 2011 during the 24th Annual Conference of Indian Society for Atherosclerosis Conference. Summary of lectures of important speakers is presented below.

Dr. Surendra Kumar Verma, Head of the Department of Pathology JIPMER was the Organizing Secretary for the Conference and the Conference was presided over by Dr. NK Ganguly, the President of JIPMER. Dr. NK Ganguly delivered the Chief Guest's Address and he touched upon the recent scientific advances in the field of atherosclerosis research.

Professor Dr. Rama Gopalan, President of Indian Society for Atherosclerosis Research and Director of Dr. ALMPGIBMS, University of Madras and Head of the Department of the Pathology, delivered the presidential address on the "Role of Nf-KB in Atherosclerosis. Professor Dr. Jayashree Bhattacharjee, Vice president of Indian Society for Atherosclerosis Research and Head, Department of Biochemistry, Lady Hardinge Medical College, New Delhi, delivered the R.N.Chakravarti Oration on "Endothelial dysfunction and C150t iNOS gene polymorphism in stable ischemic heart disease. These orations were of the highest quality and were highly appreciated by all the National and International delegates who participated in the Conference. These sessions will also be the nidus for future research work for numerous research scholars who participated in the event.

Professor Dr. S.Viswanathan, Medical Superintendent of Raja Muthiah Medical College, Annamalai University and Head, Department of Obstetrics and Gynaecology, delivered a guest lecture on "GarbhaVidhya". He narrated his experience in starting and officiating as the Director of Centre for Yoga Studies in Annamalai University. His talk highlighted the ancient method of education of fetuses from the womb. His was an inspirational talk on a novel field which was highly motivating for the delegates.

Professor Dr. M. Jayabalan, from Polymer Science Division, BMT wing of SreeChitraTirunal Institute for Medical Sciences and Technology, Trivandrum delivered a lecture on "Injectable Biosynthetic Hydrogels for the treatment of Cardiac diseases". His lecture highlighted his experience on the research on development of newer polymers in the treatment of post ischemic complications in damaged cardiac tissue.

Professor P. Subramanian, Department of Biochemistry and Biotechnology, Annamalai University delivered a guest lecture on, "Hyperlipidemia and atherosclerosis: *Allium* compounds modulate lipid profile under various experimental conditions" in which he highlighted the systematic reduction of lipid profile under various experimental conditions promising these compounds in diet could play a good protective role. He threw light on the circadian patterns of lipid

profile variables which were also consistently decreased when *Allium* compounds were administered. Professor Namasivayam Nalini, Faculty of Science, Department of Biochemistry and Biotechnology, Annamalai University, delivered a guest lecture on "Protective effects of Naringenin and Rutin against ethanol induced steatosis and atherosclerosis in male albino wistar rats". Her work highlighted the protective effect of natural products, naringenin and rutin against the lipids and inflammatory markers induced steatosis and atherosclerosis in alcohol induced liver injury.

Professor Dr. SH Pawar, Vice Chancellor, DY Patil University, Kolhapur, presented his work on "The role of Nanotechnology in Atherosclerosis" from Centre for Interdisciplinary Research of DY Patil University. He discussed the role of nano particles in drug delivery as in the case of the drug Fumagillin and the ability of nanoparticles to concentrate the drug at disease site. It was particularly liked by PhD scholars and research workers who attended the CME.

Professor Dr. KV Pugalendi, Head Department of Biochemistry and Biotechnology, Annamalai University, presented a synopsis of his life time work on the "Role of ursolic acid as an anti-atherogenic factor". He emphasized the anti-atherogenic role of Ursolic acid which is a major component of traditional medicinal plants such as apple, basil, bilberries, peppermint and lavender etc. He presented the entire gamut of technological studies including High performance liquid chromatography, DNA studies and lipid studies conducted in his numerous experiments in proving the anti-atherogenic property of ursolic acid. It was appreciated by all the delegates.

Professor Dr. Vivekanand Jha, Department of Nephrology, PGIMER Chandigarh, presented his work on "Atherosclerosis as risk factor for chronic renal disease". He emphasized on the role of state of art technology in translational laboratory research. The talk was appreciated by Clinicians from various departments.

Cytokines mediated inflammatory process in stable ischemic heart disease

Dr. Jayashree Bhattacharjee
Dir. Professor & Principal
VMMC & Safdarjung Hospital
New Delhi – 110029

The denudation of endothelium and the accumulation of inflammatory cells following an injury evolve gradually into a state of chronic inflammation which characterizes atherosclerosis and its acute manifestation-Myocardial Infarction. Even though inflammation has a major role along the entire spectrum of the atherosclerotic process, i.e. its initiation, progression, plaque destabilization, yet its role has largely been studied only in acute manifestations of atherosclerosis.

Several cells typical for the atherosclerotic plaque, like monocyte-derived macrophages and T-lymphocytes are able to produce and secrete mediator molecules, like cytokines which lead to activation of endothelial cells, proliferation of smooth muscle cells, lesion progression, and finally to the weakening of a vulnerable plaque by matrix degradation of its fibrous cap. Although the degree of active inflammation is increased in activated plaques of patients with acute coronary syndromes, smouldering inflammation characterizes silent plaques as well. Such lesions may also release inflammatory mediators into the systemic circulation.

Cytokines like IL-2, IL-6, TNF- α and several others are released by activated inflammatory cells or an agitated endothelium into circulation. Acting synergistically, these cytokines instigate the production of large amounts of inflammatory and cytotoxic molecules downstream in the cytokines cascade. In this way, the activation of a limited number of immune cells can initiate a potent inflammatory cascade, both in the forming lesion and systemically. Increased levels of these inflammatory biomarkers are found in patients with established ischemic heart disease and during acute coronary syndromes. But even in patients of stable ischemic heart disease levels of these inflammatory biomarkers may predict future cardiovascular events.

Currently, we are conducting two projects in the department of Biochemistry, LHMC

(1) "Study of inducible nitric oxide synthase mutant and promoter variant along with pro-inflammatory markers in patients with CAD" Ph.D. Thesis project of Richa Dixit.

(2) "The study of pro-inflammatory cytokines and iNOS gene polymorphism in stable ischemic heart disease" M.D Thesis project of Dr Shilpa Hasija, Department of Biochemistry, Lady Harding Medical College. The work is being conducted in collaboration with Department of Medicine, LHMC & Department of Cardiology, GB Pant Hospital, New Delhi with the aim to establish the significance of cytokines in patients of stable ischemic heart disease. Cytokines have a definite role to play in acute episodes of ischemic heart disease but in stable patients if cytokines can modulate the course of disease remains disputed and hence, are our effort to put some light on this issue.

High-Fat Diet Disrupts Behavioral and Molecular Circadian Rhythms in Mice

Cell Metabolism 2007; 6, 414–421

The circadian clock programs daily rhythms and coordinates multiple behavioral and physiological processes, including activity, sleep, feeding, and fuel homeostasis. Recent studies indicate that genetic alteration in the core molecular clock machinery can have pronounced effects on both peripheral and central metabolic regulatory signals. Many metabolic systems also cycle and may in turn affect function of clock genes and circadian systems. However, little is known about how alterations in energy balance affect the clock. Here we show that a high-fat diet in mice leads to changes in the period of the locomotor activity rhythm and alterations in the expression and cycling of canonical circadian clock genes, nuclear receptors that regulate clock transcription factors, and clock-controlled genes involved in fuel utilization in the hypothalamus, liver, and adipose tissue. These results indicate that consumption of a high-calorie diet alters the function of the mammalian circadian clock.

High fat diet without excess calories induces metabolic disorders and enhanced atherosclerosis in rabbits

Atherosclerosis 2010; 213: 148-155

Objective: Excess intake of a high-fat diet (HFD) is associated with obesity and metabolic syndrome, which are major risk factors for cardiovascular disease. However, it is unclear whether consumption of an HFD at a normal calorific range would be detrimental to metabolism or affect the development of atherosclerosis. Here, we tested the hypothesis that

consumption of a normal-calorie HFD would impair lipid metabolism, insulin sensitivity, and blood pressure.

Methods and results: Rabbits fed with an HFD containing either 3% (15% kcal from fat) or 10% (25.8% kcal from fat) coconut oil were compared with control rabbits fed with a standard chow diet (9.3% kcal from fat). All rabbits consumed an equal amount of calories of their respective food. However, HFD feeding induced marked metabolic disorders including increased plasma levels of free fatty acids, insulin resistance, and hypertension compared with control rabbits. Metabolic disorders were more pronounced in 10%-HFD-fed rabbits than 3%-HFD-fed rabbits. To examine whether these disorders affected the development of atherosclerosis, two HFD groups were further fed with a diet containing 0.3% cholesterol for another 18 weeks. We found that 10%-HFD group showed a prominent accumulation of adipose tissue and developed 2-fold greater aortic atherosclerosis than 3%-HFD group.

Conclusions: These results suggest that consuming an HFD containing even a normal number of calories can cause insulin resistance, hypertension, and adipose accumulation even without obesity. High amounts of fat in diets apparently accelerate the development of atherosclerosis.

Association between aortic calcification and stable obstructive coronary artery disease

Int J Cardiol 2011, 153: 192-195

Background: Coronary artery calcification (CAC) is correlated with aortic calcification (AC) and predicts coronary atherosclerosis as well as obstructive coronary artery disease (OCAD). This study aims to investigate whether AC predicts OCAD independent of CAC and its incremental value in predicting OCAD with CAC.

Methods: Among the consecutive patients who underwent 64-slice multidetector CT (MDCT), we enrolled 120 stable OCAD (luminal narrowing $\geq 50\%$) patients and 120 controls without OCAD, matched for cardiovascular risk factors. CAC, thoracic AC, and OCAD were determined by MDCT.

Results: The prevalence of AC and CAC were significantly higher in OCAD patients than in controls (64% vs. 48%, $p = 0.019$; 57% vs. 32%, $p < 0.001$, respectively). There is a significant correlation between AC and CAC scores in the overall study population ($r = 0.528$, $p < 0.001$). In univariate analysis, the odds ratios (ORs) of AC and CAC in predicting OCAD were 1.91 (95% CI, 1.14–3.21) and 2.82 (95% CI, 1.67–4.78), respectively. When an adjustment was made for each other, AC did not maintain a significant association with OCAD, whereas CAC persisted the association (OR, 2.52; 95% CI, 1.42–4.47). Both AC and CAC present as compared to both absent was found to be a more potent predictor for OCAD (OR, 3.37; 95% CI 1.78–6.36, $p < 0.001$) than CAC alone.

Conclusions: The presence of AC was associated with stable OCAD independently from cardiovascular risk factors, but the association seemed to be based on the close correlation

between AC and CAC. However, AC might have an incremental value with CAC for predicting OCAD.

Coronary revascularization in patients with coronary artery disease and chronic kidney disease

Adv Chronic Kidney Disease 2011, 11: 254-260

There is a remarkable lack of randomized trial data on optimal management of coronary artery disease (CAD) in patients with chronic kidney disease (CKD). In fact, patients with CKD are often excluded from randomized trials that compare different treatment strategies for CAD. Because the most common cause of death in CKD patients is cardiovascular disease, it is crucial that studies are designed to determine the best therapy for CAD in this high-risk group. This article discusses the available data on coronary revascularization outcomes in CKD patients.

Coronary artery disease, coronary revascularization, and outcomes in chronic advanced systolic heart failure

Int J Cardiol 2011, 151: 69-75

Background: Associations between coronary artery disease (CAD) and outcomes in systolic heart failure (HF) and that between coronary artery bypass graft (CABG) surgery and outcomes in patients with HF and CAD have not been examined using propensity-matched designs.

Methods: Of the 2707 patients with advanced chronic systolic HF in the Beta-Blocker Evaluation of Survival Trial (BEST), 1593 had a history of CAD, of whom 782 had prior CABG. Using propensity scores for CAD we assembled a cohort of 458 pairs of CAD and no-CAD patients. Propensity scores for prior CABG in those with CAD were used to assemble 500 pairs of patients with and without CABG. Matched patients were balanced on 68 baseline characteristics.

Results: All-cause mortality occurred in 33% and 24% of matched patients with and without CAD respectively, during 26 months of median follow-up (hazard ratio {HR} when CAD was compared with no-CAD, 1.41; 95% confidence interval {CI}, 1.11–1.81; P=0.006). HR's (95% CIs) for CAD-associated cardiovascular mortality, HF mortality, and sudden cardiac death (SCD) were 1.53 (1.17–2.00; P=0.002), 1.44 (0.92–2.25; P=0.114) and 1.76 (1.21–2.57; P=0.003) respectively. CAD had no association with hospitalization. Among matched patients with HF and CAD, all-cause mortality occurred in 32% and 39% of those with and without prior CABG respectively (HR for CABG, 0.77; 95% CI, 0.62–0.95; P=0.015).

Conclusions: In patients with advanced chronic systolic HF, CAD is associated with increased mortality, and in those with CAD, prior CABG seems to be associated with reduced all-cause mortality but not S

ORATION/ AWARDS

Nominations were invited for **Dr. P.A. Kurup Oration (Basic Research in Atherosclerosis)** which will be awarded. The awardee so selected will have to deliver the Oration in the forthcoming Annual Conference of the ISAR, ISARCON 2012 at Annamalai University, Chidambaram.

Scientists who have contributed significantly to atherosclerosis research may be nominated by life members of the society for the oration award. The scientist nominated must have been a member of ISAR for a continuous period of 5 years. It was important to send the following information to the **Secretary, ISAR by e-mail (secretaryisar@gmail.com) before 30 July, 2012 (This information was displayed on website throught the year as well as emailed to all.**

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

Two medals for best papers in the following will be awarded at the 25th Annual Conference of the ISAR, ISARCON 2012., if applications have been received before 30th July 2012.

1. **Balaji Endowment Medal for Basic experimental research in atherosclerosis**
2. **Sri Venkateswara cardiac research medal for Clinical research on atherosclerosis and allied aspects**

Criteria for Awards-

1. The candidate should be a member of the society for at least two years.
2. He/she should be the first author of the paper.
3. The work should have been carried out in India and should be original in content. 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, and working in an organisation for a minimum period of 3 years.
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 July 30, 2

ISARCON-2012

**International Conference on Recent Trends in Atherosclerosis and 25th
Annual Conference of The Indian Society for Atherosclerosis Research**

(ISARCON-2012)

September 01 – 03, 2012

Organised by

Department of Biochemistry and Biotechnology

in collaboration with

CAS in Marine Biology

Annamalai University

Chidambaram, Tamil Nadu, INDIA

INVITATION

Dear Colleague,

The Department of Biochemistry and Biotechnology, Annamalai University is organising 'International Conference on Recent Trends in Atherosclerosis and 25th Annual Conference of the Indian Society for Atherosclerosis Research (ISARCON-2012) from September 01 – 03, 2012. Cardiovascular diseases (CVDs) remain the biggest cause of death worldwide, and have increased at an astonishingly fast rate in low- and middle-income countries. The percentage of premature deaths due to cardiovascular diseases range from 4% in high-income countries to 42% in low-income countries. The World Health Organisation report '*Global atlas on cardiovascular disease prevention and control*' states that CVDs are the leading cause of death and disability in the world. Although CVDs are preventable, they continue to rise mainly because preventive measures are inadequate. It is estimated that by the year 2030, almost 23.6 million people will be affected from CVDs, mainly from heart disease and stroke. Hence, there is an obligation to prevent this catastrophe in point of fact by tailoring effective treatment strategies.

This conference will provide a forum for discussing the epidemiology, biochemistry, experimental medicine, clinical and interventional cardiology. Further, this conference will provide a platform for discussing the medicinal properties of phytochemicals and their applications in interventional cardiology. Large number of delegates from India and abroad are expected to attend this meet. We request you to take this opportunity and participate in the conference and visit the temple city of Chidambaram. Your active participation is highly solicited. We will make our best efforts to make your stay in Chidambaram academically fruitful and enjoyable. Kindly, make a note of the dates for registration, abstract submission and accommodation and we request to circulate this information to your friends, colleagues and students who may be interested in attending the conference.

Hope to see you at Chidambaram.

Yours sincerely,

Dr. N. Nalini

(Chair Person)

Host Department Department of Biochemistry and Biotechnology

The Department of Biochemistry in Annamalai University was established in the year 1994. The Department has made rapid strides in both teaching and research activities in the last 18 years. M.Sc., Biochemistry and M. Sc., Biotechnology (2 year programmes) and a 5-year Integrated M.Sc., Biotechnology programme are offered by the department. In addition, M.Phil., and Ph.D., programmes are offered. The major areas of research include free radicals and antioxidant defence systems, analysis of medicinal utilities of natural products and development of molecular markers and preventive strategies for diabetes, heart disease and cancer, radioprotection, chronopharmacology, chronotherapy and molecular chronobiology. The members of the teaching staff have earned academic distinctions and awards and have received research grants from several national as well as international funding agencies. The Department has signed memoranda of understanding with Johns Hopkins University, USA and National University of Singapore, Singapore. The Department has been recognised by the DST for funding under the FIST programme and by the UGC under the SAP-DRS programme.

Arriving at Chidambaram

Chidambaram is located 240 km South of Chennai in Tamil Nadu. Chennai is connected to all major Indian cities and a number of International cities by air and also to all major Indian cities by rail and road. Both the rail and road connect Chennai to Chidambaram. The rail connection from Chennai is from Egmore, which is located 12 km from Chennai airport. Pre-paid taxis are available from the airport to Chennai Egmore railway station. The road connection from Chennai to Chidambaram is also good. The main bus terminal is located at Koyambedu which is 15 km from Chennai airport and 12 km from Chennai Central/Egmore railway station. For local transportation, taxis and autorickshaws are available. The state Government buses run from Chennai to Chidambaram every half an hour from Koyambedu. The traveling time from Koyambedu/Egmore (Chennai) to Chidambaram is around 5 hours. During September, the temperature at Chidambaram will be around 25-30°C. Accommodation will be arranged to all delegates in the University Guest House and nearby hotels at Chidambaram.

Places of Interest

Nataraja Temple (2 kms from University)

The Nataraja temple built during the eleventh century is one of the most celebrated of the South Indian shaivite temples. The temple located in the middle of the Chidambaram town sprawls an area of 40 acres. Inside the walls are four Gopurams (Towers) embellished with numerous sculptures presenting various religious scenes and parables. The presiding deity of the temple is represented by air, one of the five elements and is known as Akasa Lingam.

Poompuhar (30 kms from Chidambaram)

Poompuhar, once the biggest port on the East coast, was at its peak of glory under the earlier Chola kings. The Kaveri, merging with the bellowing sea, was known as Puhar but due to the exquisite beauty of the port town, it came to be called 'Poompuhar'.

Pichavaram (16 kms from Chidambaram)

Pichavaram ranks among the most exquisite scenic spots with abundant and varied tourism resources. The backwaters which are interconnected by the Vellar and Coleroon offer abundant scope for water sports- rowing, kayak and canoeing. The Pichavaram forest not only offers waterscape and backwater cruises but combines another very rare occurrence, the mangrove forest trees permanently rooted in a few feet of water. The Pichavaram mangroves are considered among the healthiest mangrove occurrence in the world. Pichavaram consists of a number of islands interspersing a vast expanse of water covered with green trees.

Puducherry (70 kms from Chidambaram)

Puducherry, which is 70 kms from Chidambaram was a French establishment. There are a number of tourist spots of interest. Aurobindo Ashram, the place where Shri Aurobindo lived and gave discourses is situated in Puducherry.

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Dr. Naranjan S. Dhalla, University of Manitoba, Winnipeg, Canada
Dr. Nilanjana Maulik, University of Connecticut, Connecticut, USA
Dr. Kailash Prasad, University of Saskatchewan, Saskatoon, Canada
Dr. Chuanfu Li, Nanjing Medical University, Nanjing, China
Dr. Fabio Coppede, University of Pisa, Pisa, Italy
Dr. Jamal Mustafa, East Carolina University, Greenville, USA
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Dr. Sampath Parthasarathy, The Ohio State University, Ohio, USA
Dr. Parinandi, The Ohio State University, Ohio, USA
Dr. Nihal Ahamed, University of Wisconsin, Madison, USA
Dr. Lucia Migliore, University of Pisa, Pisa, Italy
Dr. Paul K. Ganguly, Alfaisal University, Riyadh, Kingdom of Saudi Arabia
Dr. Shaw-Fang Yet, Institute of Cellular and System Medicine, Zhunan Town, Taiwan
Dr. Yuan-Xiang Pan, University of Illinois, Urbana-Champaign, USA
Dr. Igor Pogribny, National Center for Toxicological Research, Jefferson, USA
Dr. Guo-Chang Fan, University of Cincinnati, Cincinnati, USA
Dr. A. R. Jayakumar, University of Miami, Miami, USA
Dr. Vicente Andres, Spanish National Cardiovascular Center, Madrid, Spain
Dr. Minoo Shahidi, Tehran University of Medical Sciences, Tehran, Iran
Dr. R. Sivakanesan, University of Peradeniya, Peradeniya, Sri Lanka
Dr. Mohammad A. Rashid, University of Dhaka, Bangladesh
Dr. M. Balasundaram, AIMST University, Malaysia

List of probable speakers from India

Dr. Jayshree Bhattacharjee, Lady Hardinge Medical College, New Delhi
Dr. Ritu Singh, Lady Hardinge Medical College, New Delhi
Dr. M. E. Yeolekar, NEIGIHMS, Shillong
Dr. Niranjali Devaraj, University of Madras, Chennai
Dr. S. R. Gupta, Amrutha Health Care Centre, Tirupati
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Dr. S. Dwivedi, University of Delhi, Delhi
Dr. M. G. Sridhar, JIPMER, Pondicherry
Dr. Yogeshwar Shukla, Indian Institute of Toxicology Research, Lucknow
Dr. M. K. Unnikrishnan, Manipal University, Manipal
Dr. C. Rajamanickam, OSHO Biotech, Madurai
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Dr. A. Geetha, Bharathi Women's College, Chennai
Dr. D. Brindha, PSG College of Arts and Science, Coimbatore
Dr. R. Parvatham, Avinashilingam University, Coimbatore
Dr. P. R. Padma, Avinashilingam University, Coimbatore
Dr. Subir Kumar Das, West Bengal University of Health Sciences, Kolkata
Dr. R. Kokilavani, Kongunadu Arts and Science College, Coimbatore
Dr. Rosalind Marita, Nicolas Piramal Pvt. Ltd. Mumbai

Focus areas of the conference

- Role of phytochemicals in cardiovascular diseases
- Recent trends in epidemiology, biochemistry and experimental medicine in cardiovascular diseases
- Recent trends in clinical and interventional cardiology
- Relationship between diabetes/hypertension/renal complications and cardiovascular diseases
- Inflammation and atherosclerosis
- Angiogenesis and vascular remodeling
- Experimental trends in atherosclerosis
- Phytochemical analogs, drug designing and drug delivery systems in heart diseases

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Abstract submission

Abstracts for oral/poster presentations are invited in MS Word File in the following format:

Title: 14 point bold, capitals and centered.

Author(s) : Name and address in 12 point, normal, centered, followed by e-mail ID of the presenting author in 10 point, normal and centered. Name of presenting author should be underlined.

Text: 12 point, single space, normal and justified.

Abstracts should be typed in Times New Roman style font only and text of the abstract should not exceed 300 words. References and acknowledgements in the abstract must be avoided. Properly checked abstracts should be submitted to the conference e-mail ID: isarcon2012@rediffmail.com

In addition, two hard copies of the abstract should be submitted to the corresponding address (to the Convener) of the conference. Student delegates (presenting authors) need to attach an authorization letter from research supervisor/head of the department with hard copies of abstract. Poster presentation will be through posters not exceeding 1 m ×1 m size.

LCD facility will be available for oral presentation.

Registration Fee

	Before	After
	July 10, 2012	
ISAR Members	Rs. 1,500/-	Rs. 2,500/-
Student ISAR Members	Rs. 800/-	Rs. 1,200/-
Delegates	Rs. 2,000/-	Rs. 2,500/-
Student Delegates	Rs. 1,200/-	Rs. 1,400/-
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Indian Delegates	Rs. 1,000/-	Rs. 1,500/-
Foreign Delegates	US\$ 100/-	US\$ 150/-
Accommodation		
Delegates	Rs. 300/- per day	-----
Students	Rs. 200/- per day	-----

Dates to remember (last dates):

Submission of Abstract	:	July 10, 2012
Registration	:	July 10, 2012
Request for Accommodation	:	July 10, 2012

Corresponding address:

Dr. N. NALINI

Chair Person

Dr. P. SUBRAMANIAN

Convener

ISARCON-2012

Department of Biochemistry and Biotechnology

Faculty of Science

Annamalai University

Chidambaram – 608 002, Tamil Nadu, INDIA

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Registration Form (ISARCON-2012)

(Photocopy of this form may also be used)

Name:

Designation:.....

Mailing Address :

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City: Pin Code:

State: Country:

Phone: (Res.)..... (Off.)

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e-mail:

Presentation: Oral () Poster ()

Registration fee in the form of demand draft should be drawn in favor of **"The Registrar, Annamalai University"** payable at **Chidambaram, 608 001, Tamil Nadu, India.**

Name and address of accompanying person:.....

.....

Accommodation: Required () Not Required ()

Accommodation: Number of days ()

Member of ISAR/Non-Member

Amount: Rs./US\$ Demand Draft No.:

Bank and Place:

Arrival Details:

Date: Time:

Departure details:

Date: Time:

Signature

ISARCON - 2012
BEST ORAL PRESETATION AND BEST POSTER AWARDS

In order to encourage young scientists (especially the student participants) and to recognize their meritorious and significant contributions by way of their presentations and deliberations, the following number of awards will be proffered at the time of ISARCON 2012 to be held at Chidambaram

For research scholars

Young Investigator awards - 2
Oral Presentation awards - 3
Poster awards - 5

In addition, the following number of travel awards is also instituted to embolden student participation:

Travel awards - 5

For PG students

Poster awards - 3

A maximum of 10 abstracts received from the PG students will be selected by the selection committee for display in the poster session and THREE of the best posters will be selected and awarded in the conference.

Some relevant Conferences :

Fourth Annual Joint Scientific Meeting of the Heart Valve Society of America and Society for Heart Valve Disease

Conference :10th to 12th January 2013

Dubai, United Arab Emirates

Website: <http://www.cardiovascular-uae.com>

Contact person: Karishma Whabi

Keystone Symposia: New Frontiers in Cardiovascular Genetics Beyond GWAS

Conference :13th to 18th January 2013

Tahoe City, California, United States of America

Website: <http://www.keystonesymposia.org/13A2>

Contact person: Keystone Symposia Attendee Services

Research in the areas of DNA and RNA sequencing and bioinformatics, as it relates to heart failure, sudden cardiac death, and coronary artery disease, will be presented from the perspectives of academia and industry around the world.

Deadline for abstracts/proposals: 12th September 2012

Check the [event website](#) for more details.

Mayo Clinic's Case Studies in Structural Heart Disease and Intervention

Continuing professional development event

24th to 27th January 2013

Sunny Isles, Florida, United States of America

Website: <http://www.mayo.edu/cme/cardiovascular-diseases-2013r055>

Contact person: CME Staff

This multidisciplinary, clinical course highlights developments in structural heart disease. The case-based course reviews innovative treatments for aortic stenosis, mitral regurg, hypertrophic cardiomyopathy, PFO/ASD & uncommon clinical problems.

Organized by: Mayo Clinic

Check the [event website](#) for more details

Internal Medicine: Cardiology for the Primary Care Physicians

Conference :26th January to 2nd February 2013

Depart Ft. Lauderdale, Florida, United States of America

Website:

http://www.continuingeducation.net/coursedescription.php?topic=Cardiology_Internal_Medicine_CME_Cruise_Caribbean_January_2013

Contact person: Continuing Education, Inc. 1 800 422 0711

This is a Live Lecture 7-Night Eastern Caribbean Cruise Conference Round-trip Ft. Lauderdale, Florida and is held aboard Holland America's ms Eurodam. Please go to our website for course details.

Organized by: Continuing Education, Inc.

Check the [event website](#) for more details.

Arrhythmias and the Heart: A Cardiovascular Update

Conference :28th January to 1st February 2013

Maui, Hawaii, United States of America

Website: <http://www.mayo.edu/cme/cardiovascular-diseases-2013r997>

Contact person: Deborah Feils

Will review the diagnosis, management, and prevention of common rhythm disorders, AF, ventricular arrhythmias, as well as challenging aspects of congestive heart failure, CAD, valvular heart disease, pulmonary hypertension, and preventive cardiology.

Organized by: Mayo Clinic

Check the [event website](#) for more details.

The 2nd International Conference on Prehypertension and CardioMetabolic Syndrome

Conference :31st January to 3rd February 2013

Barcelona, Spain

Website: <http://www.prehypertension.org>

Contact person: Sarah Krein

Come to discover the latest research on the links between Prehypertension and Cardio Metabolic Syndrome. Stay on for the world famous Carnival festivities that mark February as the most exciting month to be in Spain!

Organized by: paragon conventions

Deadline for abstracts/proposals: 13th September 2012

Check the [event website](#) for more details.

MEMBERSHIP > FORM

Membership > Form

**INDIAN SOCIETY FOR ATHEROSCLEROSIS RESEARCH
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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.

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Annual Conferences : ISARCON

This Newsletter Compilation by Prof. P. Subramaniam (mainly) and Prof. Ritu Singh