Malaria is the fifth cause of death from infectious diseases worldwide (after respiratory infections, HIV/AIDS, diarrhoeal diseases, and tuberculosis) and the second in Africa, after HIV/AIDS. It is caused by unicellular, protozoan parasites of the genus Plasmodium. About 41% of the world’s population lives in areas where malaria is transmitted (e.g., parts of Africa, Asia, the Middle East, Central and South America, Hispaniola, and Oceania) (WHO: http://www.who.int/mediacentre/factsheets/). The serious problem of malaria parasite is drug resistance to currently used antimalarials has led to an urgent need to develop new and effective antimalarial molecules. There are 10 main groups of antimalarial drugs in use. Most of these drugs are primarily active against the blood forms of the parasite. Prior to the Second World War, Quinine, Primaquine, ChloroQuine and Mepacrine were developed. These were followed by Proguanil and AtovaQuone (in the 1940s), Primaquine and Pyrimethamine (1950s), Sulfadoxine/Pyrimethamine (1960s), Artemisinin (1970s, in China) and then a spurt of drugs in the 1980s: MefloQuine, Halofantrine and various Chinese compounds - Pyronaridine (PRN), Piperaquine (PPQ) and the Artemisinin derivatives-Artemether, Artesunate and Dihydroartemisinin (DHA). Parasite resistance to the new agents by combination therapy may be reduced and highly effective. The concept of combination therapy is based on the synergistic or additive potential of two or more drugs, to improve therapeutic efficacy and also delay the development of resistance to the individual components of the combination. A safe and effective vaccine would have been the easiest way to control this disease, but even after decades of search, that vaccine is still elusive. It is due to the complex life cycle of the parasite involving human and vector mosquitoes as well as its allelic diversity and antigenic variations makes the development and implementation of effective malaria control intervention problematic.

National Conference cum Workshop will cover the following topics:

- Malaria Genomics/Proteomics
- Malaria Vaccine Development
- Current scenario of Malaria Drug Development
- Drug Target Validation and Prioritization
- Structural Bioinformatics/chemoinformatics
- Malaria Drug Target Database Development
- Target Based Drug Designing
- Target-drug interaction mapping
- 3DQSAR and Pharmacophore Design
- Antimalarial Database Development

Last date for submission of copy of Poster Presentation in A4 size is 15/4/2012
Last date for submission of Registration Form is 15/4/2012

All correspondence for the National Conference cum workshop should be addressed to:

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School of Computational and Integrative Sciences
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New JNU Campus, New Delhi 110 067
Email:nsrao@mail.jnu.ac.in / nsrao.jnu@gmail.com
Eligibility Criteria

Applicants must be Research Scholars pursing Ph.D/Faculty working in Malaria at least for one year. Preference will be given to researchers in the field of drug designing in Malaria.

Conference Poster Presentation

- Abstracts & printed A4 size copy of poster are invited to submit in advance for Poster Presentation
- Last Date for submission of Poster Presentation : 15.4.2012
- The Number of Posters to be limited to 10.
- Participants will be informed for acceptance of Posters by : 16.4.2012
  (via e-mail or ref. web site http://ccbb.jnu.ac.in/antim/index.html)

Submission of Registration Form

- Registration form can be downloaded from the website-
  http://ccbb.jnu.ac.in/antim/index.html
- Filled forms should be forwarded by the Head of the Institution / Department / Research Supervisor with specific recommendation.
- The selection of participants will be based on proven background knowledge of the applicant in the subject area and on the content of the concept note.
- Last Date for submission of Registration form : 15.4.2012
- Selected Participants will be informed by: 16.4.2012
  (via e-mail or ref. web site http://ccbb.jnu.ac.in/antim/index.html)
- The number of participants for the National Conference cum Workshop is limited to 20.
- Filled registration forms may be sent to the Convener either by post or by email.
- Registration includes breakfast & lunch Only.

Registration Fee(s)

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<tr>
<th>Category</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Participants from Academia</td>
<td>Rs 2,000/-</td>
</tr>
<tr>
<td>Participants from Industry</td>
<td>Rs 7,500/-</td>
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</tbody>
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- Mode of Payment : Cash or DD only.
- DD(s) are to be drawn in favour of Finance Officer, Jawaharlal Nehru University payable at New Delhi.
- Registration fees should be send only after the selection.

Note : No Accommodation will be provided to Participants.

Convener(s)
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School of Computational & Integrative Sciences (SC&IS)
Jawaharlal Nehru University,
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