Seminar Report

Bharathidasan University
Tiruchirappalli – 620 024

National Seminar on Microbes in Women Health

Organised by

Department of Microbiology, Bharathidasan University

In collaboration with
Trichy Obstetric and Gynecological society (TRIOGS)
Tiruchirappalli – 620 018, Tamil Nadu, India

July 11-12, 2019

Sponsored by

The International Society for Microbial Ecology, the Netherlands
Seminar Inauguration Ceremony

The inaugural ceremony was held at University Auditorium at 10.00 am as per schedule. Dr. V. Rajesh Kannan, Associate Professor and Head delivered the welcome address and Dr. T. Ramani devi, Convenor delivered about the seminar. The presidential address was delivered by Prof. P. Manisankar Hon’ble Vice-Chancellor, Bharathidasan University, Tiruchirappalli. He described the importance of microorganism in healthy baby development; mother child microbial transfer is a key determinant in infant and women health. Microbiome plays an essential role in not only in health and dysbiosis, but also potentially in successful fertilization and healthy pregnancies. Prof. N. Thajuddin, Organizing Chairman and Dr. S. Chitra delivered the felicitation address. Dr. D. Dhanasekaran, Organizing Secretary delivered the vote of thanks.
Inauguration

Abstract Release
Seminar Brochure
RIOGS (TRICHY OBSTETRIC AND GYNAECOLOGICAL SOCIETY)

The Federation of Obstetric and Gynaecological Societies of India (FOGSI) is the professional organization representing practitioners of obstetrics and gynaecology in India. FOGSI exists to encourage and disseminate knowledge, education and research in the field of Obstetrics and Gynaecology, to pilot and promote preventive and therapeutic services related to the practice of Obstetrics and Gynaecology for betterment of the health of women and children in particular.

Trichy Obstetrics and Gynaecological Society (TRIOGS) as established in 1992 and has been very active since its inception. It has more than 220 members who are in active practice at the ‘Rock town’ Trichy and its suburbs. Since then the society is conducting continuing medical education, workshop, and seminars. It has conducted many national and zonal conferences. TRIOGS also participates in social activities and health care awareness for public of Trichy. Few members of TRIOGS are in limelight of FOGSI as its Vice President and Chairperson. It has received best society award at the national level and few members have received national awards for academics as well as social activities.

About the Seminar

Women play an undeniable role in the health of future generations partly through the maternal microbes. The microbial inheritance that occurs pre-, peri-, and post-natal has been linked to various consequences for both mother and child. As more evidence accumulates, the relevance of this unique scientific conference in bridging the science with medical and industry communities becomes all the more essential.

A community of microbiota has been associated with numerous health outcomes and while much emphasis has been placed on the gastrointestinal niche, there is growing interest in the microbiome specific for female reproductive health and the health of their offsprings. The vaginal microbiome plays an essential role not only in health and dysbiosis, but also potentially in successful fertilization and healthy pregnancies. In addition, microbial communities have been isolated from formerly forbidden sterile niches such as the placenta, breast, uterus, and Fallopian tubes, strongly suggesting an additional microbial role in women's health. A combination of maternally linked prenatal, birth, and post-natal factors, together with environmental and medical interventions, influence early and later life through the microbiome.

Here, we review the role of microbes in female health focusing on the vaginal tract and discuss
how male and female reproductive microbiomes are intertwined with conception and how mother-child microbial transfer is a key determinant in infant health, and thus the next generation.

**Theme of Seminar**

The theme of the NSMWH 2019 seminar will be “Microbiota Management in Pregnancy”. It will open with a clinical half-day that focusing on practice-changing microbiome science. This seminar will cover the microbiome in women health, a full research day with top level academics and clinicians presenting their cutting edge science. Research will be presented in several formats such as keynote lectures, plenary lectures, student presentations and panel discussions.

- Understanding and identifying more relevant biomarkers will be a step forward in diagnosing and treating dysbiosis in women’s health.
- Vaginal microbiome of reproductive-age women.
- cervicovaginal microbiomes threats and possibilities.
- Influence of probiotic vaginal lactobacilli on *in vitro* adhesion of urogenital pathogens to vaginal epithelial cells and microbes in reproductive tract.
- This NSMWH 2019 seminar discusses the vaccination, menstrual hygiene, bacterial, fungal, viral infections, pelvic inflammatorily disease, anemia, nutrition in women. It also describes the role of microbes in female health focusing on the vaginal tract and discusses how male and female reproductive microbiomes are intertwined with conception and how mother-child microbial transfer is a key determinant in infant and women health.

**Participants**

Totally 293 participants are participated in National Seminar. The participants from under graduates, post graduates, Research scholars, and faculty members from different discipline of College, University and Research institutions.
Registration

Registration and Reception

Organizing Committees

Patron
Prof. P. Manisankar, Hon’ble Vice Chancellor
Bharathidasan University

President
Prof. G. Gopinath, Registrar
Bharathidasan University

Convener
Dr. T. Ramani Devi MD, DGO
Vice President
South Zone elect, FOGSI 2020
Consultant, Ramakrishna Medical Centre, Trichy
Organizing Chairman
Prof. N. THAJUDDIN
Professor and Head
Department of Microbiology, Bharathidasan University
Tiruchirappalli – 620 024, Mobile: 9842379719
Email: nthaju2002@yahoo.com

Dr. S. CHITRA MD, DGO
President
Trichy Obstetric and Gynecological Society (TRIOGS)
Lalitha Nursing Home, Trichy

Organizing Secretaries
Dr. D. DHANASEKARAN
Assistant Professor
Department of Microbiology
Bharathidasan University, Tiruchirappalli – 620 024

Dr. PUNITHA RAJESH MD (OG)
Secretary
Trichy Obstetric and Gynecological Society (TRIOGS)
Sree Devi Hospital, Srirangam

Dr. N. PUSHPA
Associate Professor
Department of Microbiology
Cauvery College for Women, Tiruchirappalli- 620 018
Mobile: 9345774391, Email: ttpushpa11@gmail.com

Members
Dr. V. RAJESH KANNAN,
Associate Professor, Department of Microbiology

Dr. G. MURALIDARAN
Assistant Professor, Department of Microbiology

Dr. P. THIYAGARAJAN,
Assistant Professor, Department of Microbiology

Dr. C. NITHIYA
DST-INSPIRE Faculty, Department of Microbiology
INVITATION

NATIONAL SEMINAR ON
“MICROBES IN WOMEN HEALTH”
(NSMWH - 2019)

Sponsored by
International Society for Microbial Ecology(ISME), The Netherlands

Date: 11-12th July 2019
Venue: AC Auditorium, Bharathidasan University

To

ORGANIZED BY
Department of Microbiology
Bharathidasan University, Tiruchirappalli - 620 024
IN COLLABORATION WITH
Trichy Obstetric and Gynaecological Society (TRIOGS),
Tamil Nadu, India

Invitation cover page
NATIONAL SEMINAR ON MICROBES IN WOMEN HEALTH
JULY 11-12, 2019

Organized by
Department of Microbiology
Bharathidasan University, Tiruchirappalli - 620 024
In Collaboration with
Trichy Obstetric and Gynaecological Society (TRIOGS)
Tamil Nadu, India

INVITATION

Cordially invite you for the Inaugural function of the ISME sponsored
NSMWH-2019 to be held on 11th July 2019, 10.30 a.m.
Venue: AC Auditorium, Bharathidasan University
Palkalaiperur, Tiruchirappalli

Welcome Address
Dr. V. Rajesh kannan
Associate Professor and Head, Department of Microbiology
Bharathidasan University, Tiruchirappalli

About the Seminar
Dr. T. Ramani Devi, MD., DGO., Convenor
Vice President
South Zone elect, FOGSI 2020

Presedential & Inaugural Address
Prof. P. Manisankar
Hon’ble Vice Chancellor
Bharathidasan University, Tiruchirappalli

Felicitation
Prof. Dr. N. Thajuddin, Organizing Chairman
Professor
Department of Microbiology, Bharathidasan University, Tiruchirappalli
Dr. Mrs. V. Sujatha
Principal
Cauvery College for Women(Autonomous), Tiruchirappalli
Dr. S. Chitra, MD., DGO President
Trichy Obstetric and Gynecological Society (TRIOGS)

Vote of Thanks
Dr. D. Dhanasekaran, Organizing Secretary
Department of Microbiology, Bharathidasan University, Tiruchirappalli

Invitations
NATIONAL SEMINAR ON MICROBES IN WOMEN HEALTH
JULY 11-12, 2019

Organized by
Department of Microbiology
Bharathidasan University, Tiruchirappalli - 620 024
In Collaboration with
Trichy Obstetric and Gynaecological Society (TRIOGS)
Tamil Nadu, India

INVITATION

Cordially invite you for the Valediction of the ISME sponsored NSMWH-2019 to be held on 12th July 2019, 4.00 p.m.
Venue: AC Auditorium, Bharathidasan University
Palkalaiperur, Tiruchirappalli

Welcome Address
Prof. Dr. N. Thajuddin, Organizing Chairman
Professor, Department of Microbiology, Bharathidasan University

Seminar Report
Dr. D. Dhanasekaran, Organizing Secretary
Department of Microbiology, Bharathidasan University

Presidential Address
Prof. E. Ramganesh
Director
Institute of Entrepreneurship and Career Development (IECD)
Bharathidasan University, Khajamalai Campus
Tiruchirappalli - 620 023

Felicitation
Dr. T. Ramani Devi, MD., DGO., Convenor
Vice President
South Zone elect, FOGSI 2020

Dr. Punitha Rajesh
Secretary, Trichy Obstetric and Gynaecological Society (TRIOGS)

Valedictory Address
Prof. G. Subramanian
Founder Director, National Facility for Marine Cyanobacteria
Former Head, Department of Microbiology
Bharathidasan University, Tiruchirappalli

Vote of Thanks
Dr. N. Pushpa, Organizing Secretary
Associate Professor, Department of Microbiology
Cauvery College for Women (Autonomous), Tiruchirappalli- 620 018

Invitations
# Programme Schedule

**July 11, 2019, Thursday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09.00 am</td>
<td>Registration at AC Auditorium, Bharathidasan University</td>
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<tr>
<td>10.30 a.m.</td>
<td>Inauguration</td>
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<td></td>
<td><strong>Venue</strong> AL Auditorium, Bharathidasan University</td>
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</tbody>
</table>
| Welcome Address | **Dr. V. Rajesh Kannan**  
Associate Professor and Head, Department of Microbiology  
Bharathidasan University, Tiruchirappalli |
| About the Seminar | **Dr. T. Ramani Devi**, MD., DGO., Convenor  
Vice President  
South Zone elect, FOGSI 2020 |
| Presidential and Inaugural Address | **Prof. P. Manisankar**, Hon’ble Vice Chancellor, Bharathidasan University, Tiruchirappalli |
| Felicitation | **Prof. Dr. N. Thajuddin**, Organizing Chairman, Professor, Department of Microbiology, Bharathidasan University, Tiruchirappalli |
|              | **Dr. Mrs. V. Sujatha**  
Principal, Cauvery College for Women (Autonomous), Tiruchirappalli |
|              | **Dr. S. Chitra**, MD., DGO President, Trichy Obstetric and Gynecological Society (TRIOGS) |
| Vote of Thanks | **Dr. D. Dhanasekaran**, Organizing Secretary  
Assistant Professor, Department of Microbiology, Bharathidasan University, Tiruchirappalli |

**SESSION – I**

| Chairperson                                      |  
| Dr. A. Panneerselvam, Associate Professor (former), Department of Botany and Microbiology, AVVM Sri Pushpam College (Autonomous), Poondi, Thanjavur |
| Co-Chairperson                                   |  
| Dr. V. Ambikapathy, Associate Professor, Dept. of Botany and Microbiology, A.V.V.M Sri Pushpam College (Autonomous), Poondi, Thanjavur |
| 11.30-12.0 Noon                                  | Plenary Lecture - 1:  
Dr. S. Chitra MD., DGO President, Trichy O & G Society  
Consultant, Lalitha Nursing Home, Tiruchirappalli  
Topic: Pre conceptional Counseling and Vaccination |
| 12.00-12.30 noon                                 | Plenary Lecture – 2:  
Dr. T. Ramani Devi MD., DGO Vice President |
12.30-1.00 p.m. : Plenary Lecture – 3: Dr. Punitha Rajesh MD (OG)
Secretary, Trichy O & G Society
Sree Devi Hospital, Srirangam
Topic: Vaccination in Women

1.00-2.00 p.m : Lunch

**SESSION – II**

**Chairperson** : Dr. G. Archunan, UGC-BSR Faculty Fellow,
Department of Animal Science, Bharathidasan University

**Co-Chairperson** : Dr. M. Muthuselvam. Assistant Professor
Department of Biotechnology, Bharathidasan University

2.00-2.30 p.m. : Plenary Lecture – 4: Dr. S. Lakshmi Praba MBBS, DGO
Rana Hospital, Tiruchirappalli
Topic: Viral Infection during Pregnancy

2.30-3.00 p.m : Plenary Lecture – 5: Dr. R. Mahalakshmi MD (OG)
Consultant, Jeyam Nursing Home, Tiruchirappalli
Topic: Fungal Infection in Women

3.30 p.m. : Tea and Poster presentation

**SESSION – III**

**Chairperson** : Dr. S. Achiraman, Associate Professor
Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli

**Co-Chairperson** : Dr. G. Kanimozhi, Department of Botany and Microbiology,
AVVM Sri Pushpam College (Autonomous),, Poondi, Thanjavur

3.45-4.15 p.m. : Plenary Lecture – 6: Dr. R. Abirami Karpagam, MD
Consultant, Meenakshi Multi Specialty Hospital, Pudukottai
**Topic: Rubella and Pregnancy**

4.15-4.45 p.m. : Plenary Lecture – 7: Dr. M. Suresh
Department of Biology, College of Science, Al-Zulfi-., Majmaah University, Majmaah- 11952, Riyadh, Kingdom of Saudi Arabia
**Topic: Endometrial Tuberculosis and Female Infertility**

*July 12, 2019, Friday*

**SESSION – IV**

**Chairperson** : Dr. G. Muralitharan, Assistant Professor, Department of Microbiology, Bharathidasan University, Tiruchirappalli

**Co-Chairperson** : Dr. R. Krishnaveni, Department of Microbiology, Idaya College
<table>
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<tr>
<th>Time</th>
<th>Event</th>
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| 10.30-11.00 a.m | Plenary Lecture – 8: **Dr. C. Anchana Devi**  
Assistant Professor,  
Department of Biotechnology,  
Women’s Christian College, Chennai  
**Topic: Microbial Diversity in Reproductive Health** |
| 11.00-11.30 a.m | Plenary Lecture – 9: **Dr. Kavitha Senthil** MD (OG)  
Pankajam Nursing Home, Srirangam  
**Topic: Menstrual Hygiene** |
| 11.30 a.m.    | Tea                                                                   |

**SESSION – V**

**Chairperson**: **Dr. A. Antony Joseph Velanganni**  
Department of Biochemistry, Bharathidasan university, Tiruchirappalli

**Co-Chairperson**: **Dr. P. Shanthi**, Assistant Professor, Holycross College, Tiruchirappalli

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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| 4.00 PM      | **Valediction**  
Venue: AC Auditorium, Bharathidasan University |
|              | **Welcome Address**: **Dr. N. Thajuddin**, Organizing Chairman,  
Professor, Department of Microbiology, Bharathidasan University, Tiruchirappalli |
|              | **Seminar Report**: **Dr. D. Dhanasekaran**, Organizing Secretary  
Assistant Professor, Department of Microbiology, Bharathidasan University, Tiruchirappalli |
|              | **Presidential Address**: **Prof. E. Ramganesh**, Institute of Entrepreneurship and Career Development (IECD), Bharathidasan University  
Khajamalai Campus, Tiruchirappalli - 620 023 |
|              | **Felicitation**: **Dr. T. Ramani Devi**, MD., DGO., Convenor  
Vice President  
South Zone elect, FOGSI 2020  
**Dr. Punitha Rajesh**, Secretary, Trichy Obstetric and Gynecological Society (TRIOGS) |
Valedictory Address
:
Prof. G. Subramanian,
Founder Director, National Facility for Marine Cyanaobacteria
Former Head, Department of Microbiology,
Bharathidasan University, Tiruchirappalli

Vote of Thanks
:
Dr. N. Pushpa, Organizing Secretary
Associate Professor, Department of Microbiology
Cauvery College for Women, Tiruchirappalli- 620 018

National Anthem

Seminar banner
Lectures on Microbes in Women's Health
Lectures on Microbes in Women's Health

Interactions during the Lectures
Interactions during the Lectures

Gathering during the Lectures
Participants are Interested to Interacted during Yoga Lecture

Participants are discussing during Lunch
Special Lectures on Microbial Ecology
Prof. G. Subramanian. Founder Director, National Facility for Marine Cyanobacteria, Former Head, Department of Microbiology, Bharathidasan University, Tiruchirappalli. He narrated microbiome of vaginal fluid and their significance in women health. He explains vaginal fluid microbial population contains $10^6$ bacteria in health women. The vaginal microbiome is a specific compartment of the human microbiome. Unique conditions of the vagina are characterized by a few microbial species, usually lactobacilli, which are able to utilize glycogen, which is under control of estrogens. Lactobacilli and other fermentative bacteria together with vaginal epithelial cells produce lactic acid and are responsible for acidifying vaginal milieu. Lactic acid occurs in two isomeric forms, and their relative ratio is likely to give the vaginal microbiota a certain degree of stability and ability to withstand some infections. This microbiota is manifested by a low degree of diversity and by the high dynamics of changes of its composition under the influence of various exogenous and endogenous factors. Increase in diversity can be paradoxically associated with a dysbiosis such as bacterial vaginosis. Individual species of lactobacilli mainly *Lactobacillus* crispatus characterize the main community state types in the vagina. Apart from lactobacilli, healthy women may be colonized with a non-lactobacillary microbiota whose rate is dependent on ethnicity. Dr. C. Anchana Devi delivered lecture on microbiome analysis in healthy and diseased individual. She also narrated the importance of microbiome analysis from the metagenomic sequence and microbiome variations, distribution in reproductive system.
Participants Discussions during Lunch Time
Poster session interactions

Participants Feedbacks
Group Photos for Remembers
Bharathidasan University, Tiruchirappalli - 620 024
Department of Microbiology
In Collaboration with
Trichy Obstetric and Gynecological Society (TRIOGS), Tamil Nadu, India
Sponsored by
International Society for Microbial Ecology (ISME), The Netherlands

CERTIFICATE

This is to certify that Mr / Ms / Mrs .................................................................

has attended the National Seminar on Microbes in Women Health
Organized by the Department of Microbiology, Bharathidasan University, Tiruchirappalli
in Collaboration with Trichy Obstetric and Gynecological Society (TRIOGS), Tamil Nadu,
India during 11 - 12th July, 2019

Dr. D. Dhanasekaran Dr. T. Ramani Devi Dr. S. Chitra Prof. N. Thajuddin Prof. G. Gopinath
Organizing Secretary Convenor President -TRIOGS Organizing Chairman Registrar

Bharathidasan University, Tiruchirappalli - 620 024
Department of Microbiology
In Collaboration with
Trichy Obstetric and Gynecological Society (TRIOGS), Tamil Nadu, India
Sponsored by
International Society for Microbial Ecology (ISME), The Netherlands

CERTIFICATE OF APPRECIATION

This is to certify that Mr / Ms / Mrs .................................................................

has Presented a Research Paper entitled ............................................................

was adjusted for Best Poster award in the National Seminar on Microbes in
Women Health Organized by the Department of Microbiology, Bharathidasan
University, Tiruchirappalli in Collaboration with Trichy Obstetric and
Gynecological Society (TRIOGS), Tamil Nadu, India during 11 - 12th July,
2019.

Dr. D. Dhanasekaran Dr. T. Ramani Devi Dr. S. Chitra Prof. N. Thajuddin
Organizing Secretary Convenor President -TRIOGS Organizing Chairman

Certificates copy
Valedictory function on second day was held at 4.00 pm. The programme started **Prof. N. Thajuddin**, Organizing Chairman delivered the welcome address and **Dr. D. Dhanasekaran**, Organizing secretary delivered the seminar report. **Prof. E. Mamganesh**, Director IECD, BDU delivered the presidential address. **Dr. T. Ramani Devi**, Convenor delivered the Felicitation address. In the valedictory session **Prof. G. Subramanian**, Founder Director, National Facility for MarineCyanobacteria, Former Head, Department of Microbiology, Bharathidasan University, Tiruchirappalli appreciated the organizing committee for conducting such intellectual programme for the benefit of young faculty, scholars and students and also congratulated the participants. He narrated microbiome of vaginal fluid and their significance in women health. **Dr. N. Pushpa**, Organizing secretary delivered the vote of thanks followed by **National Anthem**. After the valedictory function, participants were distributed with their participation certificates.

**Valedictorian**
Valedictorian

News paper clips
ISME seminar grant Utilization

The ISME sponsored funds **EURO 1000/-** is utilized for the travel and other expenses was used in part to support Early Career Scientists in India.

**Statement of expenditure**

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<thead>
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<td>Indian Rupee (INR)</td>
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