



APFCB News

The Newsletter of the Asia-Pacific Federation for Clinical Biochemistry
and Laboratory Medicine for circulation among APFCB and IFCC members only

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2019

Issue 2



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Association for Clinical Biochemistry, Sri Lanka (ACBSL)
Chinese Society of Laboratory Medicine (CSLM)
Chinese Association for Clinical Biochemistry, Taiwan (CACB)
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Of Committees, Elected December, 2017

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Submissions

The APFCB News welcomes suitable contributions for publication. These should be sent electronically to the Chief Editor. Statements of opinions are those of the contributors and are not to be construed as official statements, evaluations or endorsements by the APFCB or its official bodies.

Cover page: “Houses-on-Stilts at a Coastal Mangrove Swamp in Singapore”.

Contributed by Tan It Koon

Founding and Past President APFCB

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From the desk of Chief Editor

Dear Friends,

Greetings from India!!!!

It is with great exhilaration that I present to you the second issue of APFCB News 2019. I am extremely thankful for the consistent support that myself and my team has received in the successful publishing of this newsletter regularly.

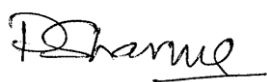
This second issue of APFCB News 2019 is a short issue as it compiles the member societies activities during the summertime and I am grateful to the member societies for sharing their regional activities at this platform.

The current issue is an important one as it comes just about two months in advance of the 15th APFCB Congress 2019 at Jaipur. As the organizing chairman I take this opportunity to welcome all the members of APFCB to this grand scientific event. We have received an overwhelming response from all the members in the form of symposium participation and almost all member societies' have their own unique symposium. I would request the member societies for encouraging their members for participation. To facilitate maximal participation, we have offered bulk registration and that can be availed.

I would also like to applaud and thank our corporate members for their great support to the APFCB Congress 2019. The corporate members have extended a superb response in the form of corporate lectures as well as workshops and travel bursaries. I highly appreciate them for this.

Continuing with the tradition of APFCB News, the cover-page of this issue has once again been graciously provided by Prof Tan It Koon, founder and past president APFCB. I thank him for his unfailing support. His talent is truly inspirational.

I once again welcome all the members of APFCB to Jaipur for the grand scientific event APFCB Congress 2019 and I promise it to be an extra-ordinary experience for one and all.



Praveen Sharma
Chief Editor



Message from APFCB President

Dear friends and colleagues, greetings and thank you for reading our latest edition of the APFCB Newsletter.

The world of laboratory medicine will soon converge in Jaipur, India. The APFCB Congress is less than two months away and it promises to be an unforgettable event. The APFCB community is the largest laboratory medicine regional grouping in the world. Apart from this, the IFCC is supporting numerous events and has scheduled a regular IFCCC Executive Board meeting in Jaipur, immediately following our Congress. In addition, our scientific activities will benefit richly from the strong support of major partners societies such as the EFLM, WASPaLM and AACC.

I am also delighted with the support shown by our vendor partners. We will have a wide range of the latest diagnostic showcase from our major regional and global diagnostic vendors. Overall, it promises to be an exciting 4 days from 17–20 November 2019 and I do encourage everyone to attend and take advantage of the many aspects available. Remember also to cater some time for the world famous tourist attractions of India's Pink City.

Do make plans for attending the APFCB Congress and I look forward to welcoming and meeting up with friends and colleagues in Jaipur.

As is customary, allow me to thank the hardworking APFCB Newsletter and editorial team for yet another edition of this newsletter. I am certain that you will find this edition entertaining and informative.

With best wishes,

SK Sethi

Sunil Sethi

President, APFCB





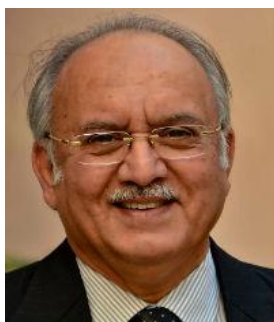
IFCC-TFYS at APFCB (Asia-Pacific Congress of Clinical Biochemistry) 2019 November 17 to 20, 2019 Jaipur, India

Report By: Dr Pradeep Kumar Dabla, Chair IFCC-TFYS

On behalf of Organizing Committee APFCB 2019, it is our immense pleasure to invite you all to join exciting and informative scientific programme encompassing plenary lectures, symposia and workshops related to themes close to heart of laboratory medicine & clinical chemistry to be delivered by hundreds of world renowned experts. Congress is being organized at state – of – the – art Jaipur Exhibition & Convention Centre. Jaipur is popular as “Pink City” and situated in the royal deserts of the Rajasthan state. This beautiful city of Monuments and forts was discovered by Maharaja Sawai Jai Singh II in the year of 1727 AD.

IFCC-TFYS is able to continue education programmes with continuous support of senior members APFCB & IFCC, with special mention to Organising Chairperson APFCB 2019 Prof Praveen Sharma. **IFCC-CCLM & IFCC-TFYS is organizing pre-congress joint workshop** titled “Building Tomorrow's leaders by the young generation” delivering informative & encouraging talks by Prof Praveen Sharma, Prof Edward Randell, Prof Pradeep K Dabla & Prof Sedef Yenice to be held on November 17, 2019. Further, **IFCC-TFYS is organizing symposia** 26, November 19, 2019 titled “Clinical Chemistry to Clinical Laboratory Science – Future Challenges” to be Chaired by Prof Maurizio Ferrari, President IFCC & Prof Pradeep K Dabla, Chair IFCC TFYS. The symposia includes refreshing & distinguished talks by Core Members Dr Guilaine Boursier, Dr Santiago Fares Taie, Dr Giulia Sancesario & Dr Joe El-Khoury. APFCB 2019 is coming with numerous Awards & Bursaries for young scientists to join congress from different countries. IFCC is awarding 8 Roche Scholarships, APFCB is awarding 12 Scholarships, ACBI is supporting 20 Bursaries & awards. Promoting education & research for young colleagues, IFCC TFYS is able to provide “IFCC TFYS Snibe Travel Awards” with generous support by Snibe to present research work at APFCB 2019. “3 Young Scientists” will be selected for travel awards and each Award will consist of a certificate & amount value of the sum SGD-1000. Young Scientists from IFCC member countries were encouraged to apply. IFCC-TFYS is thankful to all senior members and authorities for this grand support to young scientists to join this academic feast.

For more information visit: <http://www.apfcbcongress2019.org/welcome-message>



*Prof. Praveen Sharma
Chairman, Organizing
Committee*



*Prof. Pradeep K Dabla
Chair IFCC-TFYS Convener Scientific Committee,
APFCB 2019*



ASIA-PACIFIC FEDERATION FOR CLINICAL BIOCHEMISTRY AND LABORATORY MEDICINE PROGRESS REPORT OF 15th APFCB 2019

APFCB Progress Report for 2019



We are pleased to inform you about the latest updates of the upcoming 15th Asia Pacific Federation for Clinical Biochemistry and Laboratory Medicine Congress to be held at Jaipur Exhibition and Convention Centre, Jaipur, India from 17th– 20th November 2019. The organising committee will arrange scientific and social activities to enrich the knowledge, skills and networks.

- **The preparations being made:**
- APFCB congress committee members which included President APFCB, Corporate representative have done a site inspection on February 9th & 10th 2019 and seen all the preparations being made.
- The conference website is live with the details of the venue, city and organising committee, online registration module is also integrated on the same. <http://apfcbcongress2019.org>
- Abstract submission has now closed and there are more than 400 submissions for oral/ poster presentations.
- The conference registration fee has been finalized and an online link <http://in.eregnow.com/ticketing/register/default/apfcbcongress2019.com?cc=y=I> NR is integrated on the website and app for online registration. Registration fees for neighbouring countries (Srilanka, Pakistan & Nepal) is same as for Indian delegates with the permission from APFCB EB.
- As per the discussion with EB delegates from Mongolia are also been registered with reduced registration fees.



- The registration link – <http://www.apfcbcongress2019.org/registration-fee>
- Early bird registration – 30th September 2019.
- Tremendous response from all over the world for participation at 15th APFCB Congress 2019. Delegates from European Union, Africa, Latin America hve also registered.
- Expected attendees are more than 700.
- Four plenary lectures have been planned. Speakers are as under –
- Prof S. K. Acharya (Executive Director, Gastroenterology and Hepatology, Fortis, New Delhi, India)
- Prof Maurizio Ferrari (President IFCC, Full Professor of Clinical Pathology, Vita-Salute San Raffaele University, Director of Clinical Molecular Biology and Cytogenetics Laboratory, and Head of Genomic Unit for the Diagnosis of Human Pathologies, IRCCS, San Raffaele Hospital, Milan, Italy.),
- Prof Sampath Parthasarthy (Florida Hospital Chair in Cardiovascular Sciences Professor of Medicine, Florida, USA.)
- Prof David Kinniburgh (Adjunct Professor with the Department of Physiology and Pharmacology, Alberta Centre For Toxicology, University of Calgary, Canada).
- Six pre-conference workshops on various themes extending from leadership in laboratory medicine to mass spectroscopy and liquid biopsy have been planned. 6 workshops that are finalized are–
- AACC Global Lab Quality Initiative: Adding value to patient care using quality control (AACC)
- Alzheimer's Workshop (IFCC – ETD)
- Mass Spectrometry in the clinical laboratory (AACB)
- Building Tomorrow's leaders by the young generation (IFCC-CCLM / IFCC-TFYS)
- Requirement for High Quality liquid profiling for cancer diagnostics in clinical laboratory practice (IFCC – EB)
- Multi-dimensional perspectives of Laboratory (ACBI – Roche)
- There are total 40 symposium with 7 Indian and 33 from a spectra of international associations including 5 IFCC symposium, 2 AACC symposium, 1 EFLM, 1 WASPaLM, 1 AFCC symposium, 1 COLABIOCLI symposium and from APFCB member societies. Ten symposia are offered by APFCB Member societies. Besides this, there are seven industrial symposia from corporate members.

Conference Venue

- The **venue of the congress is finalized as JECC** (Jaipur Exhibition and Convention Centre). It's a state of art structure with 60,000 Sq. Ft. convention facility. It can accommodate 1200 delegates in plenary and has 20 meeting rooms with large pre-function area, registration area, interpretation rooms and lawns for outdoor events.
- **Pre-conference workshops and functional meetings** venue has been finalised as **Hotel Mariott, Jaipur.**



- An advanced mobile application is designed for APFCB 2019 with features like online registration, real time push notifications for any update, Session and Speaker bookmark with various other unique features.
<https://play.google.com/store/apps/details?id=app.APFCB>

Corporate Support

- Our corporate members have been very supportive and I heartily acknowledge their participation both in the exhibition and the scientific program where they have supported by organizing workshops and industrial lectures.
- Diamond Sponsors –
 - Roche Dignostics
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 - Snibe Diagnostics
 - Beckman Coulter
- Platinum Sponsors
 - Ortho Clinical Diagnostics
 - Randox Laboratories
 - Agappe Diagnosstics
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- Gold
 - Abbott Diagnostics
 - Bio–Rad
 - POCT
 - Binding Site
 - Becton Dickinson
 - Diasys
 - Techno
 - Sekisui
 - Kopran
- Silver/ Individual stalls
 - Thermofisher
 - Beijing hotgen
 - Arkray
 - Premas Life science
 - Perkin Elmer
 - Diasorin
 - Sysmex
 - Granier



Detailed scientific program and sponsorship layout is available on the APFCB 2019 website.

- **Conference event manager** – Mike Hospitality has been finalised.
- MIKE has successfully managed various National & International conferences and has skilled team members to manage the conference of the APFCB repute, moreover, they have successfully managed various National conferences of ACBI.
- The organizing committee arranged various promotional activities for the conference at international forums viz.
- 14th APFCB Congress, Taipei 2016
- Euromed Lab, Athens 2017
- IFCC World Lab, Durban, 2017
- Annual conference of the college of chemical pathologist of Sri Lanka, 2018
- EFLM, Barcelona, Spain, May 2019
- AACC, Anaheim, San Francisco, USA, 2019

Among the travel scholarships–

- IFCC Roche has awarded to 8 delegates for travel scholarships.
- IFCC TFYS–Snibe has awarded to 3 delegates for travel scholarships
- APFCB Seimens has awarded to 3 delegates for travel scholarships
- RCPAQAP has awarded one scholarship
- APFCB Organizing committee has awarded 5
- APFCB has awarded 3 young scientists
- Delhi ACBICON has awarded 5 delegates for travel award

Annual functional meetings of IFCC–EB, TFYS, IFCC ETD and IFCC–CPD.

- The congress is organised by ACBI and is supported by AMBI.
- The organizing committee looks forward to the participation of all the members from the Asia pacific region in great numbers and make this conference a great success.

Praveen Sharma
Chairman, Organizing Committee
APFCB congress 2019





Australasian Association of Clinical Biochemists (AACB)

It has been another busy year for the AACB.

In September 2018, the AACB and AIMS (Australian Institute of Medical Scientists) jointly hosted the annual scientific conference at the newly built International Conference Centre (ICC) located at Darling Harbour in the Sydney CBD. This is the venue of the 2022 APFCB conference. There were 539 delegates at the three day conference which had a theme of 'Diagnosis to Cure'. Most disciplines of laboratory medicine were part of the joint program and typically 5 sessions were run concurrently. Highlights in the biochemistry discipline included the David Curnow Plenary Lecture presented by Prof Maria Craig entitled "Unravelling the heterogeneity of diabetes in youth – can 'omics' help?" and the David Rothfield Memorial Oration presented by Prof Andy Hoofnagle entitled "Using mass spectrometry to measure proteins for the care of patients". The conference was followed by a very successful and well attended two day mass spectrometry workshop.



Professor Maria Craig delivers the David Curnow Plenary Lecture



ASC Scholarship winners at the conference dinner.



Professor Andy Hoofnagel presenting the David Rothfield Memorial Oration



Closing reception of the AACB-AIMS ASC held at the Sydney ICC



CPC held on the Gold Coast in February



Eighth Harmonisation Workshop, May 2019



Professor Leslie Burnett presents his Roman Lecture in Sydney



Chinese Association for Clinical Biochemistry (CACB)

Contributed by Dr. Woei-horng Fang, Executive Director and National Representative. This brief report summarizes some of the highlights of activities for CACB during the Year of 2019.

1. CACB was the organizer of the 34th Joint Annual Conference of Biomedical Science (JACBS) at the National Defense Medical University Campus, Taipei on 23–24th March 2019. The theme of the Conference was set as “Translating Science into Health Care” and a competition of oral presentation of “From Molecules and Cells to Human Health” was held. CACB was honored to invite the Minister of Ministry of Science and Technology (MOST), Prof. Liang-Gee Chen for the opening remarks (Figs.1&2). Prof. Pan-Chyr Yang, Academician of Academia Sinica, as invited as the Plenary Lecturer to deliver a speech entitled: “Global Rising Health Threat: Lung Cancer in Never Smokers” (Fig. 3). The Conference was concluded with nearly 2500 attendees, 980 posters and 96 vendors.

In addition, CACB also held its annual meeting during the 34th JACBS. We invited Dr. Tjin-Shing Jap, Professor in the School of Medicine, National Yang Ming University and Physician in the Division of Endocrinology and Metabolism, Taipei-Veterans General Hospital, to deliver a special lecture on “Epigenetic Related Endocrinology”. Dr. Jap shared recent research advances on how epigenetic regulation impacts the pathogenesis of metabolic diseases. CACB also organized a symposium in concert with the main theme of the JACBS “Translating Science into Health Care”.

Three speakers shared the experiences in recent development and the implementation of mass spectrometry technology in the clinical laboratories. Jun-Jen Liu, Associate Professor of School of Medical Laboratory Science and Biotechnology, Taipei Medical University, presented “When ‘high-tech’ meets routine needs: strategy of application Mass Spectrometry in clinical lab of Taiwan.” Dr. Kang-Yi Su, Assistant Professor of Department of Clinical Laboratory Sciences and Medical Biotechnology, National Taiwan University, presented “Lung Cancer Molecular Diagnostic Development from Laboratory Site to Clinical Site.” Dr. Chia-Ni Lin from the Department of Laboratory Medicine, Chang Gung Memorial Hospital, presented “Mass Spectrometry Applications in the Clinical Laboratory”. Following the symposium, student’s research oral presentation competition and poster contest were also held. (Fig. 4) Overall, the two-day conference was very successful and truly an enjoyable academic gathering for the attending members of CACB.



Figure 1 Chairs from the 9 Associations and the Minister of Ministry of Science and Technology, Prof. Liang-Gee Chen at the opening ceremony of 34th JACBS.



Figure 2 CACB board members, Chairs from the 9 Associations and the Minister of Ministry of Science and Technology, Prof. Liang-Gee Chen at the opening ceremony of 34th JACBS.



Figure 3 Plenary Lecturer of the 34th JACBS: Prof. Pan-Chyr Yang.



Figure 4 CACB Award presenting for oral presentation contest at 34th JACBS.

2. CACB in conjunction with Taiwan Society of Clinical Pathology and Laboratory Medicine (TSCPLM) to hold a symposium at the 30th Anniversary and Joint Conference of TSCPLM at Taipei International Conference Center on 12/15–16 2018. Dr. Kang-Yi Su, Assistant Professor of Department of Clinical Laboratory Sciences and Medical Biotechnology, National Taiwan University, presented “Clinical Application of Laboratory Developed Tests for Molecular Diagnostics” Dr. Chia-Ni Lin from the Department of Laboratory Medicine, Chang Gung Memorial Hospital, presented “Clinical Application of Liquid Chromatography–Tandem Mass Spectrometry” (Fig. 5).



Figure 5 CACB symposium at 30th Anniversary and Joint Conference of Taiwan Society of Clinical Pathology and Laboratory Medicine (TSCPLM).

3. CACB is planning a symposium for the 2019 APFCB congress, which will be held in Jaipur, India on 11/17–20, 2019. The symposium will discuss about the recent advances in mass spectrometry that have been applied to the areas of toxicology, biochemistry, endocrinology and genetics. We will present the applications of mass spectrometry in the clinical laboratories in Taiwan, including the current methods for preparing patient samples before analysis by mass spectrometry, utilization of nucleotide mass spectrometry for achieving cancer precision medicine and monitoring of antiepileptic therapeutics. The challenges and opportunities of clinical application of mass spectrometry will also be discussed and we wish to see more clinical adoption of mass spectrometry-based tests in the near future.





Hong Kong Society of Clinical Chemistry (HKSCC)

This year started with the Annual Scientific Meeting (ASM) and Annual General Meeting (AGM) of the Hong Kong Society of Clinical Chemistry held on 19 January 2019. The theme of our scientific meeting was "Latest Advances in Laboratory Medicine". There were two presentations by invited speakers from the Chinese University of Hong Kong: "Fecal Microbiota Transplantation: The Science behind A Revolution" by Professor Siew C NG, Department of Medicine & Therapeutics and "Deep Learning for Large-scale Histopathology Image Analysis" by Dr Hao CHEN, Department of Computer Science & Engineering. These were followed with four presentations from the industries including Agilent, Shimadzu, Roche and Waters.

Education activities for the year carried on with presentations by distinguished academia and scientists. One scientific meeting was organized in the first half year of 2019. Professor Allan S Jaffe, External Examiner for Chemical Pathology, Chinese University of Hong Kong delivered a dinner lecturer at the Holiday Inn Golden Mile Hong Kong on 9th May 2019. The title of his talk was "Natriuretic Peptides: New and Old Uses". The dinner lecture was well attended by 154 members and guests.



ASM 2019 (19 Jan 2019): Professor Siew C NG, Dr Hao CHEN and Industrial Exhibition





Dinner lecture (09 May 2019): Professor Allan S Jaffe







Korean Society of Clinical Chemistry (KSCC)

2019 KSCC Spring Meeting

KSCC held a Spring meeting at Baekbeom Kim Koo Museum & Library on May 9 (Thu) 2019. A total of 322 people attended the event, including 135 clinical pathologists, 25 resident doctors, and 82 certified laboratory technologies, and 26 in vitro diagnostic companies participated in the exhibition.

We have provided information on the latest laboratory tests and instruments in the field of clinical chemistry. In addition, through the publication of Research Highlight, Evaluation Brief, and General Posters, the recent research activities have been shared.

The meeting included four symposiums and two review courses.

Symposium 1 is a series of "real practices in laboratory quality management" that cover laboratory accreditation and practical matters that help to operate the clinical laboratory. We used a real-time interactive survey to respond to questions prepared by the speaker concerning the management of water and reagents, document management, and laboratory developed test on the real time base.

Symposium 2 covers recently highlighted topic on the concept of laboratory test utilization management, quality indicators for managing appropriateness of laboratory test utilization, and the use of clinical decision support systems, and was a time to consider how to prepare for the future in a more efficient approach to the entire laboratory testing process.

In the Symposium 3, we discussed the latest trends in vitamin D related metabolic diseases and measurement methods, and in Symposium 4, we could discuss the latest guidelines for clinical chemistry testing.

Starting from this conference, the "clinical chemical review course" workshop was held concurrently for the participants who wanted to learn the basics for the clinical chemistry tests.

The workshop consisted of lectures on general clinical chemistry topics (cost-price estimation, actual practice of internal quality control) and specific clinical chemistry test items (diabetes, kidney function test, neonatal screening test and hereditary metabolic disease).

Symposium



| Time | Description | Speaker |
|-----------------|---|---|
| 09:00 ~09:20 | Registration / Opening Address / Congratulatory Address / Awards and Recognition Ceremony | |
| | Opening Address | Jeong-Ho Kim (President, Korean Society of Clinical Chemistry: KSCC) |
| | Congratulatory Address | Jang Su Seo (President, Korean Society for Laboratory Medicine: KSLM) |
| | Announcement of Awards (best papers) and Recognition of Appreciation | |
| 09:20 ~10:50 | S1 Current State of Laboratory Quality Management III | |
| | Chair: Won-Ki Min (Univ. of Ulsan College of Medicine), Eun Hee Lee (Green Cross Laboratories) | |
| | Reagent Water and Reagents | Eun-Jung Cho (Hallym Univ. Dongtan Sacred Heart Hospital) |
| | Management of Laboratory Documents | Jae-Woo Chung (Dongguk Univ. Ilsan Hospital) |
| 10:50 ~11:10 | Management of Lab-developed Tests (LDT) | Seungman Park (Green Cross Laboratories) |
| | Photo Opportunity and Exhibitions | |
| 11:10 ~12:40 | S2 Test Utilization Management | |
| | Chair: Gye Cheol Kwon (Chungnam National Univ. College of Medicine), Yeo-Min Yun (Konkuk Univ. School of Medicine) | |
| | Laboratory Test Utilization Management: Value-based Strategies for Quality Improvement of Health Care | Minje Han (Hallym Univ. Kangdong Sacred Heart Hospital) |
| | Improving Test Utilization by Applying a Clinical Decision Support System | Sang Hoon Song (Seoul National Univ. College of Medicine) |
| 12:40 ~13:50 | Quality Indicators for Managing Laboratory Test Utilization | Sun Min Lee (Pusan National Univ. Yangsan Hospital) |
| | Industry Workshop & Lunch | |
| | Chair: DoHoon Lee (National Cancer Center), Jehoon Lee (The Catholic Univ. of Korea Eunpyeong St. Mary's Hospital) | |
| | Cobas Pro Integrated Solutions | Jinhyung Kim (Roche Diagnostics Korea) |
| 12:40 ~13:50 | Urinary Microalbumin, Creatinine Semi-quantitative Test using a Urine-analyzer | Hyung Chul Kim (SIEMENS Healthineers) |
| | Introduction of Abbott New Brand Solution (ALINITY, AlinIQ) | Chaeyoung Lee (Abbott Korea Diagnostics Division) |
| | Introduction of workflow strategy in the mass spectrometry analysis of Thermo Fisher Scientific | Debadeep Bhattacharyya (Thermo Fisher Scientific) |



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| S3 Vitamin D Testing | | |
| Chair: Kyung-Eun Song (Kyungpook National Univ. Chilgok Hospital), Junghan Song (Seoul National Univ. Bundang Hospital) | | |
| 13:50 ~15:20 | Vitamin D and Related Disorders | Soo Lim (Seoul National Univ. Bundang Hospital) |
| | Standardization of Vitamin D Tests | Sung-Eun Cho (Lab Genomics) |
| | Recent Trends in Vitamin D testing | Kyunghoon Lee (Seoul National Univ. College of Medicine) |
| 15:20 ~15:40 | Exhibitions | |
| S4 Up-to-date Laboratory Guidelines | | |
| Chair: Kyung Dong Kim (Yeungnam Univ. Hospital), Ille-Kyu Park (Hanyang Univ. Medical Center Guri Hospital) | | |
| 15:40 ~17:10 | Body Fluid Testing in Chemistry | Seung Gyu Yun (Korea Univ. Anam Hospital) |
| | Interference Testing in Clinical Chemistry | Hyunwoong Park (Boramae Medical Center) |
| | Verification of Extended Measurement Range by Sample Dilution | Jooyoung Cho (Yonsei Univ. Wonju College of Medicine) |
| 17:10 ~17:30 | General Assembly and Closing Address | |

Review Course

| Time | Description | Speaker |
|-----------------|---|---|
| 11:10 ~12:30 | RC1 Clinical Chemistry General 1 | |
| | Chair: Dal Sik Kim (Chonbuk National University Hospital), Yong-Wha Lee (Soonchunhyang University College of Medicine) | |
| | Cost-price Estimation based on Relative Value Scale | Sang Gon Lee (Green Cross Laboratories) |
| | Practical Approach to Internal Quality Control | Sollip Kim (Inje Univ. College of Medicine) |
| 13:50 ~15:20 | RC2 Clinical Chemistry Special 1 | |
| | Chair: Hwan Sub Lim (Seoul Clinical Laboratories), Pil Whan Park (Gachon University Gil Medical Center) | |
| | Diagnostic and Monitoring Tests for Diabetes | Sang-Guk Lee (Yonsei Univ. College of Medicine) |
| | Kidney Function Tests | Tae-Dong Jeong (Ewha Womans Univ. Seoul Hospital) |
| | Newborn Screening Tests and Inherited Metabolic Diseases | Hyung-Doo Park (Samsung Medical Center Sungkyunkwan Univ. School of Medicine) |





IFCC WorldLab Seoul 2020 News



Overview

As a member of the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC), the Korean Society of Clinical Chemistry (KSCC) will hold the IFCC WorldLab Seoul 2020 at Coex, Seoul, Korea from 24th– 28th May 2020, and there are only 9 months left. We are pleased to inform you about the latest updates of the upcoming IFCC WorldLab Seoul 2020. The organizing committee is gearing up for an exciting and informative symposium program including plenary lectures, educational workshops, satellite meetings and poster sessions.

| | |
|---------|---|
| Title | 24th International Congress of Clinical Chemistry and Laboratory Medicine (IFCC WorldLab Seoul 2020) |
| Date | May 24–28, 2020 |
| Venue | Coex, Seoul, Korea |
| Hosts | IFCC, KSCC |
| Theme | Value-Based Laboratory Medicine |
| Website | www.seoul2020.org |
| Scale | over 4,000 participants |
| Program | Plenary lectures, Symposia, Education workshops, Satellite meetings, etc. |

Scientific program highlights

Theme: Value-based Laboratory Medicine

The aim of the scientific program will be to provide attendees with the most up-to-date information on a wide variety of topics related to Laboratory Medicine and its clinical applications. The program will include an **Opening Lecture, 4 Plenary Lectures, 33 Symposia** (28 organized by the Scientific Program Committee, “SPC” and 5 by IFCC), **42 Education Workshops and 3 Poster Sessions**.

- **Plenary lectures** will cover innovative and value-based Laboratory Medicine which will be useful to all attendees.
- **The 28 symposia** coordinated by SPC will cover a wide spectrum of important topics, including the current status of LM, new areas of service, research and development. They will consist of four invited lectures.
- A substantial part of the program will be devoted to poster viewing and discussion.
- **Education workshops** will be organized with the active support of the IVD industry, which will be reviewed by the SPC in order to be fully integrated in to the IFCC WorldLab Seoul 2020.
- A number of **satellite meetings** will be organized either before or after the main Congress in collaboration with other related organizations.

Week agenda

| | | |
|-------------|------------------|----------------------|
| | | SUNDAY 24 MAY |
| 17:30-19:30 | OPENING CEREMONY | |
| 19:30-21:30 | WELCOME PARTY | |

10:00-17:30

EXHIBITION OPEN

MONDAY 25 MAY

| AUDITORIUM | ROOM 103 | ROOM 101 | ROOM 102 | ROOM 104 | ROOM 105 |
|-------------|-----------------------------|----------|----------|----------|-------------------------|
| 09:00-11:00 | SYM1 | SYM2 | SYM3 | SYM4 | SYM5 |
| 11:00-11:45 | BREAK | | | | |
| 11:45-12:30 | PL 1 | | | | |
| 12:30-13:00 | POSTER / LUNCH | | | | |
| 13:00-14:00 | LW 1 | LW 2 | LW 3 | LW 4 | LW 5 |
| 14:30-15:30 | IFCC SYM 2 (15:00-17:00) | EDUW2 | EDUW5 | EDUW8 | EDUW11 |
| 16:00-17:00 | | EDUW3 | EDUW6 | EDUW9 | EDUW12 (15:30-16:30) |
| 17:30-18:30 | EDUW1 | EDUW4 | EDUW7 | EDUW10 | SYM6 (16:30-18:30) |
| | | | | | SYM7 (16:30-18:30) |

TUESDAY 26 MAY

10:00-17:30

EXHIBITION OPEN

| AUDITORIUM | ROOM 103 | ROOM 101 | ROOM 102 | ROOM 104 | ROOM 105 |
|----------------|-----------------------------|----------|----------|------------------------|-------------------------|
| 09:00-11:00 | SYM8 | SYM9 | SYM1 | SYM11 | SYM12 |
| 11:00-11:45 | IFCC SYM3 | | | | |
| BREAK | | | | | |
| 11:45-12:30 | PL 2 | | | | |
| POSTER / LUNCH | | | | | |
| 12:30-13:00 | | | | | |
| 13:00-14:00 | | LW 6 | LW 7 | LW 8 | LW 9 |
| 14:30-15:30 | IFCC SYM 4 (15:00-17:00) | EDUW16 | EDUW19 | EDUW22 | EDUW25 |
| 16:00-17:00 | | EDUW17 | EDUW20 | EDUW23 | EDUW26 (15:30-16:30) |
| 17:30-18:30 | EDUW15 | EDUW18 | EDUW21 | EDUW24 | EDUW27 |
| | | | | SYM13 (16:30-18:30) | SYM14 (16:30-18:30) |

10:00-17:30

EXHIBITION OPEN

WEDNESDAY 27 MAY

| | AUDITORIUM | ROOM 103 | ROOM 101 | ROOM 102 | ROOM 104 | ROOM 105 |
|-------------|-----------------------------|----------|----------|----------|-------------------------|-------------------------|
| 09:00-11:00 | SYM15 | SYM16 | SYM17 | SYM18 | SYM19 | SYM20 |
| 11:00-11:45 | BREAK | | | | | |
| 11:45-12:30 | PL 3 | | | | | |
| 12:30-13:00 | POSTER / LUNCH | | | | | |
| 13:00-14:00 | | LW | LW 12 | LW 13 | LW 14 | LW 15 |
| 14:30-15:30 | IFCC SYM 5 (15:00-17:00) | EDUW30 | EDUW33 | EDUW36 | EDUW39 | EDUW41 |
| 16:00-17:00 | | EDUW31 | EDUW34 | EDUW37 | EDUW40 (15:30-16:30) | EDUW42 (15:30-16:30) |
| 17:30-18:30 | EDUW29 | EDUW32 | EDUW35 | EDUW38 | SYM21 (16:30-18:30) | SYM22 (16:30-18:30) |

THURSDAY 28 MAY

| | AUDITORIUM | ROOM 103 | ROOM 101 | ROOM 102 | ROOM 104 | ROOM 105 |
|-------------|------------------|----------|----------|----------|----------|----------|
| 09:00-11:00 | SYM23 | SYM24 | SYM25 | SYM26 | SYM27 | SYM28 |
| 11:00-11:45 | BREAK | | | | | |
| 11:45-12:30 | PL 4 | | | | | |
| 12:30-13:00 | CLOSING CEREMONY | | | | | |



Abstract Submission

- Submission Closing: January 15, 2020 at 18:30 CET
- Submission Acceptance Notice: February 28, 2020
- Register presenter: Presenting Author must register as Full Registration on IFCC2020.

Registration

All delegates must register for the congress. Registration fees (no VAT applied) are as follows:

| Registration | Until March 31, 2020 | After March 31, 2020 | On-site |
|---|----------------------|----------------------|---------|
| Full Registration | € 500 | € 650 | € 750 |
| Young Registration & Technicians (from Korea) | € 250 | € 325 | € 375 |
| Day Registration | € 150 | € 200 | € 250 |



The organizing committees are sure that IFCC WorldLab Seoul 2020 will be a rewarding and unforgettable experience for all participants attending from around the world. We look forward to meeting you at IFCC WorldLab Seoul 2020 in Korea.

Won-Ki Min M.D.,Ph.D.
Congress President,
IFCC WorldLab Seoul 2020

Junghan Song M.D.,Ph.D.
Congress Organizing Committee
Chair, IFCC WorldLab Seoul 2020

Sail Chun M.D.,Ph.D.
Scientific Programme Committee Chair,
IFCC WorldLab Seoul 2020

Jeong-Ho Kim M.D.Ph.D.
President, Korean Society of
Clinical Chemistry



สมาคมชีวเคมีคลินิกประเทศไทย
Thailand Association of Clinical Biochemists

สำนักงาน: ภาควิชาเคมีคลินิก คณะแพทยศาสตร์ มหาวิทยาลัยมหิดล ร.พ. ศิริราช กทม. 10700

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Thailand Association of Clinical Biochemists (TACB)

TACB have a technical problem 2-3 years anyway we have some connection the activity which belong to the laboratory services such as activity for consultation in laboratory services especially for the methodology, quality problem, selection of instrument as well as advices the laboratory to the program International Standard (ISO 15189: 2012, ISO 15790:2007 ISO,17025:2017 ISO17043:2010). For the professional of Medical Technology we have the activity in health promotion too. In 2017 TACB join the 5th national and International Conferences on Medical Technology 2017' at Twin Lotus Hotel Nakhon Si Thammarat in the south part of Thailand TACB team hold the symposium on EQA program topic 1Quality management in Thailand 4.0 2EQA program you should know and 3Awareness in Quality checking.

From the voice of customer problem and their suggestion in clinical laboratory services, In 2018 TACB established the project EQA program. Because interlab comparison not enough and doesn't cover the testing in laboratories as well as the quality problem of control material for some special test. TACB decide and planning to start these program by started with to select control material first and using the certified control material from Europe and U.S.A. which based on liquid form. The running program on EQA program selected for special such as Cardiac marker, d-dimer, blood gas hemoglobin A1c and special urine program with include the pregnancy test, microalbumin, calcium in the program which in the same strip for urinalysis.

In 2019 TACB Joined with Becton Dickinson (Thailand): BD and APFCB have a program may I help you (MIHY) to start and implement for quality of Pre analytical process especially to empowerment personnel and process of quality sample and improvement in pre analytical errors and follow International Standard (CLSI guidelines WHO guidelines on drawing blood best practice in phlebotomy 2010 JCI Accreditation standard and ISO 15189: 2012,) which feedback based on best practice in guidelines etc. This program just start in October 2019

(Reported by Associated Professor Phannee Pidetcha; Vice president of TACB)

Contact person Email: mtprabhop@gmail.com



Houses-on-Stilts at a Coastal Mangrove Swamp in Singapore

By Dr Tan It Koon

Recently when I was looking for paintings done over different period of my journey in the visual arts, for photography and inclusion in a chapter of a new art book scheduled for publication at the end of 2019 in China, I came across this painting of houses-on-stilts at a coastal mangrove swamp. It reminds me of the long stretches of unique mangrove forests and unique houses near the beaches at Singapore's East Coast when family and friends travelled there for a swim and picnic. This kind of scenery which was quite a common sight at various coastal areas about 40 years ago has almost disappeared. Although it can still be found in parts of neighbouring Malaysia and Indonesia not yet affected by development, only a few mangroves remained in Singapore. Houses-on-stilts at sea and mangrove swamps, homes of fishermen and their families, no longer exist.

In the last few months, there has been much news and public discussions on the issues of global warming and worrying environmental pollution problems. On 26 July 2019, Singapore celebrated the United Nation's International Day for the Conservation of the Mangrove Ecosystem, to highlight and acknowledge all the benefits that this crucial habitat provides us. Unfortunately despite their importance, we continue to lose mangroves across the world. The global rate of mangrove loss was previously estimated at 1 to 3 per cent per year, making them more threatened than many other types of forest. In his National Day speech in August, the Prime Minister of Singapore highlighted the need to plan and implement schemes over the next 10 to 20 years to address adverse environmental issues and consider ways to prevent the erosion of our coastal lines by rising sea level. One of the measures is the restoration of mangrove swamps and forest and creation of new ones at the appropriate locations together with building of protective walls like those in the Netherlands.

In the tropics, mangrove forests are the "rainforests by the sea". Situated at the interface between land and sea, they consist of unique assortments of flora and fauna specially adapted to tolerate stressful environment of changing waves and tides, muddy and anoxic soils, and fluctuating salinities. They serve as a safe nursery habitat for fish and home to a myriad of organisms. Unfortunately due to ignorance, these habitats were also used for discharge of industrial effluents and dumping of solid and metallic anthropogenic wastes. Since the 1960s, coastal mangrove swamps in Singapore have been cleared en masse for the construction of residential and commercial sites, prawn ponds, land reclamation, and reservoir construction. Large ships travelling close to mangrove forests also contributed to their destruction due to the production of strong winds and waves causing tree-falls. Prior to becoming an independent country in 1965, mangrove swamps covered about 13% of Singapore's fringe areas. Mangrove forests contain plants and animals which provide man with useful materials, food and valuable coastal protection. Entire coastal communities in countries such as Thailand have been sustained through reliance on mangrove forest products. By controlled burning, mangrove tree wood can be used for charcoal production. The Nipah palm which grows only in the mangrove produces leaf that have been used as roof-cover of houses and for weaving of baskets, seed which is a highly popular dessert, and a sugary flower-stalk sap which is processed to produce palm sugar and vinegar. The mangrove forest is also a rich source of sea-food, such as a wide variety of prawns, crabs and cockles. The mangrove forests have been found to play a most important role in sediment accretion, coastal protection, carbon emission absorption, toxic chemicals removal, and even cooling of the urban climate. The extensive roots of mangrove trees not only serve as refuge for small swimming organisms but also enable them to hold sediment, thus preventing coastal erosion. These roots help buffer coastal communities from the full force of tidal waves during natural disasters such as tsunamis.

South-east Asia has been a hot spot of mangrove deforestation. Mangroves have been cut down to make way for aquaculture ponds, cleared for rice paddy cultivation and reclaimed for industrial and port development. Loss of mangroves lead to erosion of coastal areas and decrease in land mass. Destruction of mangroves as well as inland tropical forests also means loss of corresponding storage capacity for carbon dioxide, allowing its accumulation in the atmosphere. This is known to have a severe negative impact on the climate which is reflected in the alarming rise in world temperature in recent years. Global warming causing accelerated melting of glaciers and rise in sea levels would further aggravate the shrinkage of land mass. The ecological services of mangrove forests are now recognised and appreciated for not only being valuable to humans but vital to the ecosystems connected directly and indirectly to it. It should be in our best interest to halt the continuing loss of mangrove forests. It is therefore timely and fortunate that measures and efforts have been taken to conserve and restore mangrove forests in Singapore and neighbouring countries. Careful observation and documentation of the plants and ecosystems are being made for long-term regeneration, proper maintenance and protection of the mangrove forests.