Advancing excellence in laboratory medicine for better healthcare worldwide

IFCC MILESTONES 2002 - 2020
GOLDEN ACHIEVEMENTS

INTERNATIONAL FEDERATION OF CLINICAL CHEMISTRY AND LABORATORY MEDICINE
The IFCC Milestones 2002-2020 booklet is dedicated to Professor Howard Morris who occupied, with boundless enthusiasm, a unique position in the history of the IFCC

Prof. Howard MORRIS and his wife Helen MARTIN

Acknowledgements:
We thank Dr Alexander Haliassos, President GSCC-CB (GR) and Andronikos Deligiannis, pecora nera design studio, for their patience along the many revisions, for the long hours spent formatting this document, and for their thoughtful suggestions.

Note:
The numbers in pink colour associated to the title of the functional units correspond to the official IFCC numbering system

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My warmest congratulations to Prof Mathias M. Mueller and Dr Bernard Gouget as well as Ms Silvia Colli-Lanzi and the IFCC Office on such an incredible achievement. This IFCC Milestones booklet does a marvelous job of showcasing the many outstanding achievements of the IFCC family over the past two decades. The enormous achievements highlighted in this booklet is simply extraordinary and very impressive. Many important milestones have been accomplished contributing to the IFCC’s mission of “Advancing excellence in laboratory medicine for better healthcare worldwide”. Particularly remarkable are the many golden achievements by the Scientific Division, Education and Management Division, Communications and Publications Division, and the Emerging Technology Division. Clearly, these achievements have not only contributed to the growth of the IFCC organization but have also had important impact on advancing the science of laboratory medicine and in vitro diagnostics around the world.

The 2020 Milestones booklet is appropriately dedicated to the memory of Professor Howard Morris, the Past President of IFCC (2018-2019) and a leader both in the field of laboratory medicine and within the IFCC organization. The IFCC community takes this opportunity to remember Professor Morris whose sudden loss is very much felt by many of us within and outside the IFCC organization.

I strongly believe that the future holds considerable promise for the IFCC organization and its family of national societies and corporate members. The strong foundation built by thousands of IFCC officers over the past two decades as highlighted in this report will ensure the IFCC’s continued journey towards global leadership in laboratory medicine, contributing to its most valuable mission of improving clinical decision making and better healthcare worldwide.

Many new initiatives are planned over the coming years to further enhance IFCC’s leadership position and increase IFCC’s role in improving global healthcare and improved patient outcomes. There will be major expansions of the IFCC’s role in global lab quality to improve internal and external quality assurance and in distance learning resources to enhance continuing education for clinical laboratory professionals worldwide. I have no doubt that IFCC will continue to shine and excel, thanks to the contributions of thousands of dedicated scientists who have actively participated and will continue to participate in numerous functional units within the IFCC organization.
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LEADING THE IFCC FUTURE

“We always overestimate the change that will occur in the next two years and underestimate the change that will occur in the next 10”

Bill Gates

Almost 20 years after the first edition of the IFCC milestones (Kobe 2002) and before the publication of the next 70 years IFCC anniversary book (2002-2022), this “IFCC Milestones 2002 - 2020 Golden Achievements” edition is providing an update on the evolution of the IFCC since the beginning of the 21st Century.

We understand human genetic, biology and chemistry much better today than we did even 20 years ago. The technology revolution and emerging digital ethics concerns are transforming our world at an unprecedented velocity. Recently IFCC adopted a new dynamic motto «Advance excellence in laboratory medicine for better healthcare worldwide». It has led important changes in the governance and improvements in line with the recent scientific developments and the new methods of education and communication/information, speeding up the scientific research process to face worldwide health challenges.

IFCC has a long-standing history setting global standards in collaboration with the international organisation. IFCC is also supporting members through scientific or educational efforts and organising conferences and international congresses. Many initiatives have emerged during the last two decades: electronic voting, new Executive Board (EB) composition with the presence of six IFCC Regional Federation representatives to best meet the needs of the membership and Memoranda of Understanding (MoUs) revised for an optimal efficiency. In 2016, the Foundation for Emerging Nations (FEN) was established to supporting programs that help improving the quality and delivery of Laboratory Medicine services, in emerging nations.

IFCC Divisions have undergone many changes incorporating the concept of P6 medicine (Personalised, Predictive, Preventive, Participatory, Psycho-cognitive, Public), a model of highly participatory, narrative, interactive, and “augmented” lab medicine to better interact with the
practitioners and the patients. The Scientific Division (SD) beside its core business on reference materials and methods, and standardisation is also focusing on molecular diagnostics as basis of personalised medicine. The Emerging Technologies Division (ETD), recently established, is preparing IFCC workforce to identify and evaluate the disrupting technologies [New Generation Sequencing (NGS), omics, mobile/e-Health and Artificial Intelligence (AI)] and how to deliver the digital future. The Education and Management Division (EMD) is very attentive on what the implications of these changes are for the professional skills required and their consequences for the curricula, education, training, long life learning and quality management. The Communications and Publications Division (CPD) is continuously modernising the website, selecting new e-tools and improving the impact factor of the publications. This division is strongly supporting open access to science resources, as a fundamental part of its mission and a public benefit to be encouraged wherever possible to spread knowledge and allow that knowledge to be built upon.

In future, we need greater number of professionals to fill the gap of the new LabMed disciplines. Since more than 10 years, the IFCC TF-Young Scientists is attracting brightest students and young professionals. Now, they have the opportunity to play an active role. We would like to congratulate them for their collaborative skills and creativity. It is essential to foster their wish to lead change in Lab medicine and health care.

Over the years, IFCC officers have changed. We would like to thank the worldwide network of volunteers and experts, as well as the corporate members for their commitment and uninterrupted contribution to the growth and development of the Federation. As well, the IFCC office is playing a pivotal role in the success of the business and in and out relationships. We thank them for their secretariat services, hard work and commitment to IFCC.

We are confident that the new “IFCC 2002 - 2020 Milestones” will allow you to learn more about the IFCC, its function and its operations, as well as to better understand the IFCC spirit and mission statement to continue being the leading organisation in the field of laboratory medicine.

Sincerely Yours,

Prof. Mathias M. Müller

Dr. Bernard Gouget
IFCC
THE WORLDWIDE LEADING ORGANISATION

WORLDWIDE MEMBERSHIP

Albania (AL)  Algeria (DZ)  Argentina (AR)
Australia (AU) & New Zealand (NZ)  Austria (AT)  Belgium (BE)
Bolivia (BO)  Bosnia Herzegovina (BA)  Brazil (BR)
Bulgaria (BG)  Canada (CA)  Chile (CL)
China Beijing (P.R.C.)  China Taipei (R.O.C.)
Croatia (HR)  Cuba (CU)  Cyprus (CY)
Czech Rep (CZ)  Denmark (DK)  Dominican Rep (DO)
Ecuador (EC)  Egypt (EG)  Estonia (EE)
Finland (Fi)  France (FR)  Georgia (GE)
Germany (DE)  Greece (GR)  Guatemala (GT)
Hong Kong (HK)  Hungary (HU)  Iceland (IS)
India (IN)  Indonesia (ID)  Iran (IR)
Iraq (IQ)  Ireland (IE)  Israel (IL)
Italy (IT)  Japan (JP)  Jordan (JO)
Kazakhstan (KZ)  Kenya (KE)  Korea (KR)
Kosovo (XX)  Latvia (LV)  Lebanon (LB)

The aim of the IFCC General Conference is to convene all the IFCC functional units at one time and location, in order to discuss present activities and projects, and to plan and decide on future actions of the organisation. A General Conference is held once during the triennial term of the IFCC Executive Board, usually during the second year.
IFCC
Structure & organisation

The International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) is a worldwide, non-political organisation for clinical chemistry and laboratory medicine. It has a range of roles that include global standard setting in collaboration with other international organisations, supporting its members through scientific and educational endeavour, and providing a series of congresses, conferences and focused meetings in order for laboratory medicine specialists to meet and present original findings and best practice.

The IFCC relies very heavily on volunteers to run the organisation and to undertake its range of activities and programmes. The IFCC contains three Membership categories:

- Full Members that are recognised and established national societies of clinical chemistry and laboratory medicine.
- Corporate Members, that are individual companies, corporate entities or research establishments concerned with the field of clinical laboratory practice.
- Affiliate Members, that are allied international or national societies or groupings interested in the science and practice of laboratory medicine.

The organisational structure of IFCC is illustrated in the figure. The governing body is the Council that consists of one Representative appointed by each Full Member (voting), Affiliate Member, and Corporate Member. It convenes at the triennial International Congress of Clinical Chemistry and Laboratory Medicine. Between Council meetings, the business of IFCC is conducted by the Executive Board that is elected by the Council. Any important questions that arise between Council meetings, such as the admission of new Full Members to the Federation, approval of recommendations, and changes or amendments of statutes are decided by mail ballot of the Full Member Representatives voting on behalf of their societies.

General Conferences

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<th>Number</th>
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<th>Year</th>
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<tr>
<td>XIII</td>
<td>Budapest (HU)</td>
<td>2018</td>
</tr>
<tr>
<td>XII</td>
<td>Madrid (ES)</td>
<td>2016</td>
</tr>
<tr>
<td>XI</td>
<td>Kuala Lumpur (MY)</td>
<td>2012</td>
</tr>
<tr>
<td>X</td>
<td>Corfu (GR)</td>
<td>2010</td>
</tr>
<tr>
<td>IX</td>
<td>Antalya (TR)</td>
<td>2008</td>
</tr>
<tr>
<td>VIII</td>
<td>Sousse (TN)</td>
<td>2004</td>
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Nominations Committee  Finance Committee  Congresses and Conferences Committee

Communications & Publications Division  Emerging Technologies Division

Committees & Working Groups  Committees & Working Groups
There are six Regional Professional Laboratory Medicine Federations considered as IFCC regional partners:

- African Federation of Clinical Chemistry (AFCC)
- Arab Federation of Clinical Biology (AFCB)
- Asia-Pacific Federation for Clinical Biochemistry and Laboratory Medicine (APFCB)
- European Federation of Clinical Chemistry and Laboratory Medicine (EFLM)
- Latin-American Confederation of Clinical Biochemistry (COLABIOCLI)
- North American Federation of Clinical Chemistry and Laboratory Medicine (NAFCC)

A Representative of each Federation is elected in the IFCC Executive Board as IFCC Regional Federation Representative.

**AFCB President**

**Prof. Rajiv Timothy Erasmus**

Dept of Chemical Pathology

Tygerberg, 7505
South Africa

www.afccafrica.org

**AFCB President**

**Dr. Osama Najjar**

General Director of Allied Health Professions Ministry of Health (MOH)

Palestine

www.afcbforyou.org
Asia Pacific Federation for Clinical Biochemistry and Laboratory Medicine (APFCB)
The Asia Pacific Federation for Clinical Biochemistry and Laboratory Medicine (APFCB) was established in 1978. The APFCB is the largest of the six regional Federations of clinical chemistry and laboratory medicine; it is composed by 18 full Ordinary Members, 6 Affiliate Members and 18 Corporate Members. The APFCB has close partnership and collaboration with eighteen in-vitro diagnostic companies, comprising global multinational, regional and local companies.

APFCB President
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Latin-American Confederation of Clinical Biochemistry (COLABIOLCI)
The Latin American Confederation of Clinical Biochemistry, COLABIOLCI, was conceived in 1968 in Mar del Plata (Argentina) and officially established in 1973, during the II Congress of Biochemistry in Porto Alegre, Brazil. Twenty-one national societies are today its members. One of the main objectives is to give support to the programmes of continuous quality. Many of the activities are supported by PAHO/WHO.

COLABIOLCI President
Dr. Alvaro Justiniano Grosz
Cochabamba - Bolivia
www.colabiocli.com

European Federation of Clinical Chemistry and Laboratory Medicine (EFLM)
In 2007, the European Federation of Clinical Chemistry and Laboratory Medicine (EFLM formerly EFCC) was formed by the merger of FESCC (Forum of European Societies of Clinical Chemistry) and EC4 (European Communities Confederation of Clinical Chemistry). EFLM connects forty full members Societies and four Affiliate members, creating a European platform for all specialists in Laboratory Medicine.

EFLM President
Prof. Ana-Maria Simundić, PhD
Department of Medical Laboratory Diagnostics
University Hospital “Sveti Duh”
Zagreb, Croatia
www.eflm.eu

North American Federation of Clinical Chemistry and Laboratory Medicine (NAFCC)
The North American Federation of Clinical Chemistry and Laboratory Medicine (NAFCC) was formed in December of 2014, representing the American Association for Clinical Chemistry (AACC) and the Canadian Society of Clinical Chemists (CSCC), both member societies of the IFCC. The NAFCC was recognised by the IFCC in February of 2015. The NAFCC was formed in response to changes to the structure of the IFCC Executive Board (EB) to allow each Federation to nominate a member to the EB, thus providing for regional representation of all IFCC member societies on the EB.

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Société Algérienne de Biologie Clinique (SABC)
Prof. Imessaoudene Belaid

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Confederación Unificada Bioquímica de la Republica Argentina (CUBRA)
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Austrian Society of Laboratory Medicine and Clinical Chemistry (ÖGLMKC)
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Royal Belgian Society of Laboratory Medicine (RBSLM)
Prof. Dr. Joris Delanghe
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Sociedad Boliviana de Bioquímica Clínica
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www.sobobiocli.com

Bosnia Herzegovina (BA)
Association of Medical Biochemists in Bosnia-Herzegovina
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www.umbbih.ba

Brazil (BR)
Sociedade Brasileira de Analises Clínicas (SBAC)
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www.sbac.org.br

Bulgaria (BG)
Bulgarian Society of Clinical Laboratory
Assoc. Prof. Dr. Yana Bocheva
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Canada (CA)
Canadian Society of Clinical Chemists (CSCC)
Société Canadienne de Clinico-Chimistes
Dr. Ted Dunn
www.csccl.ca

Chile (CL)
Sociedad Chilena de Química Clínica (SCHQC)
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Chinese Society of Laboratory Medicine (CSLM)
Dr. Ming Guan
www.cslm.org.cn

China (TW) - Republic of China (ROC) - Taiwan
Chinese Association for Clinical Biochemistry
Dr. Woei-horng Fang
www.cacb.org.tw

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Colegio Nacional de Bacteriología CNB - Colombia
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www.cnbcolumbia.org

Croatia (HR)
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Sudan (SD)
Sudanese Society of Clinical Biology
Prof. Imad Fadl-elmula

Sweden (SE)
Swedish Society for Clinical Chemistry
Dr. Per Bjellerup
www.kliniskkemi.org

Switzerland (CH)
Swiss Society of Clinical Chemistry
Prof. Martin Hersberger
www.ssscc.ch

Syrian Arab Republic (SY)
Syrian Clinical Laboratory Association (SCLA)
Dr. Adnan Al-Khatib

Thailand (TH)
Thailand Association of Clinical Biochemistry
Prof. Phannee Pidetch

Tunisia (TN)
Société Tunisienne de Biologie Clinique (STBC)
Prof. Messaoud Taieb
www.stbc.org.tn

Turkey (TR)
Turkish Biochemical Society (TBS)
Prof. Diler Aslan
www.turkbiyokimyadernegi.org.tr

Ukraine (UA)
Association of Clinical Chemistry and Laboratory Medicine of Ukraine - ACCLMU
Dr Oleksandr Kheilimskyi
www.acclmu.org.ua/en/about

United Kingdom (UK)
The Association for Clinical Biochemistry & Laboratory Medicine (ACB)
Prof Neil R Anderson
www.acb.org.uk

United States (US)
American Association for Clinical Chemistry (AACC)
Dr. Loretta Doan
www.aacc.org

Uruguay (UY)
Asociación Bioquímica Uruguaya (ABU)
Prof. Stella Raymondo
www.asociacionbioquimicauruguay.org

Vietnam (VN)
Vietnamese Association of Clinical Biochemists (VACB)
Prof. Hoang Van Son

Zambia (ZM)
Biomedical Society of Zambia (BSZ)
Dr. Victor Daka
www.biomedicalsocietyofzambia.org

Zimbabwe (ZW)
Zimbabwe Association of Clinical Biochemists (ZACB)
Prof. HT Matarira
AFFILIATE MEMBER SOCIETIES

Brazil
Sociedade Brasileira de Patologia Clínica / Medicina Laboratorial (SBPC/ML)
Dr. Wilson Shcolnik
www.sbpc.org.br

China Beijing
Lab Medicine Committee, China Association of Medical Equipment
Dr. Xuzhen Qin

Egypt
Egyptian Association of Healthcare Quality and Patient Safety
Dr. Rania Mohamed El Sharkawy

France
LABAC - French National Network of accredited Laboratories of Medical Biology
Dr. Jean-Marc Giannoli
www.labac.eu

India
Association of Medical Biochemists of India (AMBI)
Dr. Shanthi Naidu Kamatham
www.ambi.co.in

Iran
Iranian Association of Clinical Laboratory Doctors (IACLD)
Dr. Seyyed Mehdi Boutorabi
www.iacd.ir

Jordan (JO)
Society for Medical Technology & Laboratories
Dr. Reem Jamil Abu-Ihmaid

Kazakhstan
Public Association - Federation of Laboratory Medicine (FLM)
Dr. Zhanar Nurlanovna
www.flm.kz

Mexico
Federación Nacional de Químicos Clínicos (CONAQUIC A.C.)
M.C. Alejandra Anílben Cano Huizar
www.conaquic.com

Nepal
Nepalese Association for Clinical Chemistry
Dr. Ram Vinod Mahato
www.nacc.org.np

Philippines
Philippine Council for Quality Assurance in Clinical Laboratories (PCQACL)
Dr. Elizabeth Y. Arcellana-Nuqui, MD, FPSP
www.pcqacl.com

Romania
Order of the Biochemists, Biologists, Chemists in Romanian Health System (OBBCSSR)
Dr. Costanta Popa
www.obbcssr.ro/

Serbia
Serbian Society for Clinical Laboratory Medicine and Science (SCLM)
Asst Prof. Sanja Stankovic

Spain
Asociación Española del Laboratorio Clínico (AEFA)
Dr. Antonio Rider Pérez
www.aefa.es

Spain
Sociedad Andaluza de Análisis Clínicos (SANAC)
Andalusian Society of Clinical Analysis
Dr. Cristóbal Avivar Oyonarte
www.sanac.org

Turkey
Society of Clinical Biochemistry Specialists (KBUD)
Prof. Dr. Necip Ilhan
www.kbud.org.tr

Ukraine
Association for Quality Assurance of Laboratory Medicine - AQALM
Dr. Volodymyr Saganenko
The Federation offers membership to any corporation active in the field of clinical chemistry. This has proven a very productive means of communication between the professionals, professional societies and specialised industry.

The Corporate Members elect their own representative to the Executive Board.

Each Corporate Member nominates a representative to IFCC who can participate at Council meetings and is the direct link to the Corporate Representative in the Executive Board.

The Corporate Members have a delegate at the Executive Committee of each IFCC Division, presently Scientific Division, Emerging Technologies Division, Education and Management Division, Communications and Publications Division and the Congresses and Conferences Committee. Delegates of Corporate Members can participate at any Committee and Working Group as corresponding members and receive all documents. By participating in the work of IFCC the Corporate Members have the real opportunity to take initiatives in, advice on and influence early in the long process of creating standards and recommendations which might guide their future business.

Application for membership can be made through the Corporate Representative or the IFCC Office (ifcc@ifcc.org)
The named Corporate Member representatives have been appointed to facilitate liaison with IFCC. For general inquiries to a listed Corporate Member it is recommended to use the listed website as the first point of contact.

**Abbott**
Abbott Park, IL 60064  
USA  
www.abbott.com

**ADx Neurosciences**
9052, Zwijsnaarde  
Belgium  
www.adxneurosciences.com

**Agappe Diagnostics Ltd**
Kera,a 683 562  
India  
www.agappe.com

**Agilent Technologies Inc.**
Santa Clara CA 95051  
USA  
www.agilent.com

**Asahi Kasei Pharma Corporation**
Shizuoka 410-2321  
Japan  

**BD Life Sciences – Preanalytical Systems**
Wokingham, Berkshire  
RG41 5TS – UK  
www.bd.com

**Beckman Coulter, Inc.**
93420 Villepinte  
France  
www.beckmancoulter.com

**Beijing Dream Diagnostics Medicine (DDM) Technology Co. Ltd.**
Dongcheng District - Beijing  
P.R. China  
www.ivdchina.com

**The Binding Site Group, Ltd.**
Birmingham, B15 1QT  
UK  
www.bindingsite.com

**Bio-Rad Laboratories**
92430 Marnes-la-Coquette  
France  
www.bio-rad.com

**C.P.M. Diagnostic Research SAS**
00060 Formello (Roma)  
Italy  
www.cpmas.it

**Diasys**
D-65558 Holzheim  
Germany  
www.diasys-diagnostics.com

**Diatron**
Budapest H-1097  
Hungary  
www.diatron.com

**ET Healthcare Inc.**
Palo Alto  
CA 94303 – USA  
www.ethealthcare.com.cn

**Fujifilm Wako Pure Chemical Corporation**
Chuo-ku, Tokyo 103-0023  
Japan  
www.wako-chem.co.jp

**Fujirebio Europe**
9052 Zwijsnaarde (Gent)  
Belgium  
www.fujirebio-europe.com

**Gentian AS**
N-1596 Moss  
Norway  
www.gentian.no

**Helena Biosciences Europe**
Gateshead - Tyne and Wear  
NE11 0SD – UK  
www.helena-biosciences.com

**Hemas Hospitals (PVT) Ltd.**
Sri Lanka  
www.hemashospitals.com

**HyTest Ltd.**
20520 Turku  
Finland  
www.hytest.fi

**Immunodiagnostic Systems - IDS**
Boldon, Tyne and Wear  
NE35 9PD  
UK  
www.idsplc.com

**Labtronic**
59 Kunayev Ave. - Office 310  
Kazakhstan  
www.labtronic.me  
www.labtronic.eu

**MedicalSystem Biotechnology Co., Ltd.**
Ningbo, ZJ 574  
P.R. China  
www.nb-medicalsystem.com

**A. Menarini Diagnostics**
50012 Bagno a Ripoli (Firenze)  
Italy  
www.menarindiagnostics.com

**Mindray - Shenzhen Mindray Bio-Medical Electronics Co., Ltd.**
Nanshan, Shenzhen 518057  
P.R. China  
www.mindray.com

**Mitsubishi Chemical Europe GmbH**
D-40549 Düsseldorf  
Germany  
www.mitsubishichemical.com

**Nittobo Medical Co., LTD.**
Tokyo, 102-0083  
Japan  
www.nittobo-nmd.co.jp/english

**Nova Biomedical Corporation**
Waltham, MA 02454-9141  
USA  
www.novabiomedical.com

**Oneworld Accuracy Collaboration**
Burnaby - BC V5J 5H7  
Canada  
www.oneworldaccuracy.com

**Ortho-Clinical Diagnostics, Inc.**
High Wycombe – Buckinghamshire  
HP12 4DP – UK  
www.orthoclinical.com

**Radiometer Medical ApS**
2700 Brønshøj  
Denmark  
www.radiometer.com
Randox Laboratories Ltd.  
Crumlin - Co. Antrim  
BT29 4QY – UK  
www.randox.com

Roche Diagnostics  
Indianapolis, Indiana 46250-0457  
USA  
www.roche.com

SCL Healthcare  
Gyeonggi-do 16954  
Republic of Korea  
www.sclhealthcare.co.kr

Sebia S.A.  
91008 Evry Cedex  
France  
www.sebia.com

Sekisui Diagnostics  
Lexington, MA 02421  
USA  
www.sekisuidiagnostics.com

Sentinel CH SpA  
20152 Milano  
Italy  
www.sentinel diagnostics.com

Shanghai Kehua Bio-Engineering Co., Ltd.  
Shanghai 200233  
P.R. China  
www.skhb.com

Shanghai Zhicheng Biological Technology Co., Ltd.  
Pudong New Area, Shanghai  
P.R. China  
www.shzhicheng.com

Sichuan Maccura Biotechnology Co., Ltd.  
Chengdu 611731  
P.R. China  
www.maccura.com

Siemens Healthcare Diagnostics  
Newark, DE, 19702  
USA  
www.siemens.com/diagnostics

Snibe Diagnostics  
Nanshan District, Shenzhen 518000  
P.R. China  
www.snibe.com

Sysmex Europe GmbH  
D-22848 Norderstedt  
Germany  
www.sysmex-europe.com

Thermo Fisher Scientific  
01620 Vantaa  
Finland  
www.thermofisher.com

Timedico A/S  
DK-7441 - Bording  
Denmark  
www.tempus600.com

Labor Dr. Wisplinghoff  
50858 Köln-Marsdorf  
Germany  
www.wisplinghoff.de/en

Tosoh Corporation  
3980 Tessenderlo  
Belgium  
www.tosohbioscience.com/clinical-diagnostics

Zhejiang Kuake Biotechnology Co., Ltd.  
Xinchang county - Zhejiang province  
P.R. China  
www.zjkuake.com
EXECUTIVE BOARD

The Executive Board (EB) is elected by the Council for three years, and it is responsible for the operations of the IFCC between Council meetings. The EB is in charge of the strategy, decides of the annual budget, initiates projects and represents the Federation in negotiations with other organisations. The EB ensures the orderly discharge of the functions of the Federation and the sub-units. The Executive Board establishes and maintains a set of rules and procedures through which it will accomplish these functions.

Members 2018-2020

Prof. Khosrow Adeli
President (May 2020 - 2023)
President Elect (2020)
The Hospital for Sick Children
University of Toronto
Toronto - Canada

Prof. Maurizio Ferrari
Past President
President (2019 - May 2020)
University Vita-Salute
IRCCS San Raffaele
Milan - Italy

Prof. Howard Morris
President (2018 - 2019†)
Chemical Pathology Directorate
SA Pathology
Adelaide SA - Australia

Prof. David Kinniburgh
Secretary (2018 - 2020)
Alberta Centre for Toxicology
University of Calgary
Alberta - Canada

Prof. Tomris Ozben
Treasurer (2018 - 2020)
Department of Clinical Biochemistry
Antalya - Turkey

Dr. Rolf Hinzmann
Corporate Representative
(2018 - 2020)
Roche Diabetes Care GmbH
Mannheim - Germany

Prof. Howard Morris
President (2018 - 2019†)
Chemical Pathology Directorate
SA Pathology
Adelaide SA - Australia

Prof. David Kinniburgh
Secretary (2018 - 2020)
Alberta Centre for Toxicology
University of Calgary
Alberta - Canada

Prof. Tomris Ozben
Treasurer (2018 - 2020)
Department of Clinical Biochemistry
Antalya - Turkey

Dr. Rolf Hinzmann
Corporate Representative
(2018 - 2020)
Roche Diabetes Care GmbH
Mannheim - Germany
Regional Representatives 2018-2020

Prof. Adekunle B Okesina
African Federation of Clinical Chemistry (AFCC)
Department of Chemical Pathology and Immunology
University of Ilorin
Kwara State - Nigeria

Prof. Abderrazek Hedhili
Arab Federation of Clinical Biology (AFCB)
Laboratoire de Toxicologie CMYAMU
Montfleury - Tunisia

Prof. Sunil Sethi
Asia-Pacific Federation for Clinical Biochemistry and Laboratory Medicine (APFCB)
Department of Laboratory Medicine
National University Hospital
Singapore

Prof. Sverre Sandberg
European Federation of Clinical Chemistry and Laboratory Medicine (EFLM)
The Norwegian Quality Improvement of Laboratory Examinations (NOKLUS)
Haraldsplass Deaconess Hospital
Bergen - Norway

Dr. Rosa I. Sierra Amor
Latin-American Confederation of Clinical Biochemistry (COLABIOCLI)
LAQUIMS, S.C. Clinical Laboratory
Veracruz - Mexico

Prof. Ann Gronowski
North American Federation of Clinical Chemistry and Laboratory Medicine (NAFCC)
Washington University School of Medicine
St. Louis, MO – USA
EXECUTIVE BOARD
GOLDEN ACHIEVEMENTS 2002 - 2020

Integration of Regional Federations at Board level
New and Updated Memoranda of Understanding (MoU) with Regional Federations
E Voting system
Foundation for Emerging Nations (FEN)
Scholarships for emerging countries
Five new IFCC Distinguished Awards and IFCC Medals
Promotion of Young Scientists through the Task Force
Two new Federations – AFCC and NAFCC
New Emerging Technologies Division

President
K. Adeli (CA) 2020 - 2023
M. Ferrari (IT) 2019 - 2020
H. Morris (AU) 2018 - 2019
M. Ferrari (IT) 2015 - 2017
GH. Beastall (UK) 2009 - 2014
JMB. Hicks (US) 2006 - 2008
MM. Müller (AT) 2000 - 2005

Treasurer
T. Ozben (TR) 2015 - 2020
B. Gouget (FR) 2012 - 2014
G. Shannan (SY) 2006 - 2011
JMB. Hicks (US) 2003 - 2005
P. Mocarelli (IT) 1997 - 2002

Members of Executive Board
RI. Sierra-Amor (MX) 2015 - 2020
D. Mazziotta (AR) 2015 - 2016
V. Steenkamp (ZA) 2012 - 2017
L. Kricka (US) 2012 - 2014
U. Tuma (BR) 2009 - 2014
B. Gouget (FR) 2009 - 2011
JB. Lopez (MY) 2006 - 2011
M. Thomas (UK) 2006 - 2008
D. Mazziotta (AR) 2003 - 2008
V. Palicka (CZ) 2003 - 2005
CWK. Lam (HK) 2000 - 2005
RI. Sierra Amor (MX) 1997 - 2002

Secretary
D. Kinniburgh (CA) 2018 - 2020
S. Bernardini (IT) 2012 - 2017
PH. Laitinen (FI) 2006 - 2011
R. Bais (AU) 2000 - 2005

Vice President
H. Morris (AU) 2012 - 2014
CWK. Lam (HK) 2009 - 2011
V. Palicka (CZ) 2006 - 2008
CA. Burtis (US) 2000 - 2005

President-elect
K. Adeli (CA) 2020
H. Morris (AU) 2017

Corporate Representatives
R. Hinzmann (DE) 2015 - 2020
T. Brinkmann (DE) 2009 - 2014
N. Madry (DE) 2006 - 2008
H. Wetzel (DE) 2003 - 2005
W. Hölzel (DE) 2000 - 2002
## IFCC
### COOPERATION WITH INTERNATIONAL ORGANISATIONS

<table>
<thead>
<tr>
<th>Organization</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADA</td>
<td>American Diabetes Association (ADA)</td>
</tr>
<tr>
<td>BIPM</td>
<td>Bureau International des Poids et Mesures (BIPM)</td>
</tr>
<tr>
<td>CDC</td>
<td>Centers for Disease Control and Prevention (CDC)</td>
</tr>
<tr>
<td>CLMA</td>
<td>Clinical Laboratory Management Association (CLMA)</td>
</tr>
<tr>
<td>CLSI</td>
<td>Clinical and Laboratory Standards Institute (CLSI)</td>
</tr>
<tr>
<td>CIOMS</td>
<td>Council of International Organisations of Medical Sciences (CIOMS)</td>
</tr>
<tr>
<td>CCQM</td>
<td>Consultative Committee for Amount of Substance: Metrology in Chemistry and Biology (CCQM)</td>
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<tr>
<td>EASD</td>
<td>European Association for the Study of Diabetes (EASD)</td>
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<tr>
<td>EC-JRC</td>
<td>European Commission Joint Research Centre (EC-JRC)</td>
</tr>
<tr>
<td>CEN</td>
<td>European Committee for Standardisation (CEN)</td>
</tr>
<tr>
<td>EDMA</td>
<td>European Diagnostic Manufacturers Association (EDMA)</td>
</tr>
<tr>
<td>IATDMCT</td>
<td>International Association for Therapeutic Drug Monitoring and Clinical Toxicology (IATDMCT)</td>
</tr>
<tr>
<td>ICHCLR</td>
<td>International Consortium for Harmonisation of Clinical Laboratory Results (ICHCLR)</td>
</tr>
<tr>
<td>ISO</td>
<td>International Organization for Standardization (ISO)</td>
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</table>
IFCC Cooperation with International Organisations

<table>
<thead>
<tr>
<th>Organisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Osteoporosis Foundation (IOF)</td>
</tr>
<tr>
<td>International Laboratory Accreditation Cooperation (ILAC)</td>
</tr>
<tr>
<td>International Union of Pure and Applied Chemistry (IUPAC)</td>
</tr>
<tr>
<td>International Union of Biochemistry and Molecular Biology (IUBMB)</td>
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<tr>
<td>International Society for Thrombosis and Haemostasis (ISTH)</td>
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<tr>
<td>Joint Committee on Traceability in Laboratory Medicine (JCTLM)</td>
</tr>
<tr>
<td>Joint Committee for Guides in Metrology (JCGM)</td>
</tr>
<tr>
<td>National Institute for Biological Standards and Control (NIBSC)</td>
</tr>
<tr>
<td>National Institute of Diabetes and Digestive and Kidney Diseases (NIH)</td>
</tr>
<tr>
<td>National Kidney Disease Education Program (NKDEP)</td>
</tr>
<tr>
<td>National Institutes for Food and Drug Control (NIFDC)</td>
</tr>
<tr>
<td>National Institute of Standards and Technology (NIST)</td>
</tr>
<tr>
<td>World Association of Societies of Pathology and Laboratory Medicine (WASPaLM)</td>
</tr>
<tr>
<td>World Health Organization (WHO)</td>
</tr>
</tbody>
</table>
IFCC Distinguished Awards and Medals

### IFCC Distinguished Clinical Chemist Award

This award recognises an individual who has made outstanding contributions to the science of Clinical Chemistry and Laboratory Medicine, or the application of Clinical Chemistry to the understanding or solution of medical problems.

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>C.N. Hales</td>
<td>UK</td>
</tr>
<tr>
<td>2005</td>
<td>G.M. Siest</td>
<td>FR</td>
</tr>
<tr>
<td>2008</td>
<td>D.S. Young</td>
<td>US</td>
</tr>
<tr>
<td>2011</td>
<td>U.H.E. Stenman</td>
<td>FI</td>
</tr>
<tr>
<td>2014</td>
<td>M.J. McQueen</td>
<td>CA</td>
</tr>
<tr>
<td>2017</td>
<td>DYM Lo</td>
<td>HK</td>
</tr>
<tr>
<td>2020</td>
<td>N. Rifai</td>
<td>US</td>
</tr>
</tbody>
</table>

### IFCC Distinguished International Services Award (1981-1987)

This award honours an individual who has made unique contributions to the promotion and understanding of Clinical Chemistry and Laboratory Medicine throughout the world.

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>O. Zinder</td>
<td>IL</td>
</tr>
<tr>
<td>2005</td>
<td>J.H. Ladenson</td>
<td>US</td>
</tr>
<tr>
<td>2008</td>
<td>D. Burnett</td>
<td>UK</td>
</tr>
<tr>
<td>2011</td>
<td>C.A. Burtis</td>
<td>US</td>
</tr>
<tr>
<td>2014</td>
<td>R. Dufour</td>
<td>US</td>
</tr>
<tr>
<td>2017</td>
<td>J. Hicks</td>
<td>US</td>
</tr>
<tr>
<td>2020</td>
<td>G. Shannan</td>
<td>SY</td>
</tr>
</tbody>
</table>

### IFCC Award for Distinguished Contributions in Education

This award honours an individual who has made extraordinary contributions in establishing and developing educational materials for our discipline to improve training and educational programmes worldwide or in a region.

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>J.B. Henry</td>
<td>US</td>
</tr>
<tr>
<td>2005</td>
<td>W.J. Marshall</td>
<td>UK</td>
</tr>
<tr>
<td>2008</td>
<td>N. Tietz</td>
<td>US</td>
</tr>
<tr>
<td>2011</td>
<td>M.F. Burritt</td>
<td>US</td>
</tr>
<tr>
<td>2014</td>
<td>C.A. Burtis</td>
<td>US</td>
</tr>
<tr>
<td>2017</td>
<td>N. Rifai</td>
<td>US</td>
</tr>
<tr>
<td>2020</td>
<td>T. Annesley</td>
<td>US</td>
</tr>
</tbody>
</table>

### IFCC Award for Significant Contributions in Molecular Diagnostics

This award honours an individual who has made unique contributions to the promotion and understanding of molecular biology and its application in Clinical Chemistry and Laboratory Medicine worldwide.

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>L. Peltonen</td>
<td>FI</td>
</tr>
<tr>
<td>2003</td>
<td>R.M. Bertina</td>
<td>NL</td>
</tr>
<tr>
<td>2004</td>
<td>M. Ferrari</td>
<td>IT</td>
</tr>
<tr>
<td>2005</td>
<td>C.T. Wittwer</td>
<td>US</td>
</tr>
<tr>
<td>2006</td>
<td>Y.M.D. Lo</td>
<td>HK</td>
</tr>
<tr>
<td>2007</td>
<td>U. Landegren</td>
<td>SE</td>
</tr>
<tr>
<td>2008</td>
<td>O. Kallioniemi</td>
<td>FI</td>
</tr>
<tr>
<td>2009</td>
<td>E. Diamandis</td>
<td>CA</td>
</tr>
<tr>
<td>2010</td>
<td>G. Tsongalis</td>
<td>US</td>
</tr>
<tr>
<td>2011</td>
<td>M. Neumaier</td>
<td>DE</td>
</tr>
<tr>
<td>2014</td>
<td>F. Barany</td>
<td>US</td>
</tr>
<tr>
<td>2017</td>
<td>S. Branford</td>
<td>AU</td>
</tr>
<tr>
<td>2020</td>
<td>A. Ferreira-Gonzalez</td>
<td>US</td>
</tr>
</tbody>
</table>

### IFCC Distinguished Award for Laboratory Medicine and Patient Care

This award honours an individual who has made unique contributions in Laboratory Medicine, its application in improving patient care, and having a worldwide impact in clinical medicine.

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>C.W.K. Lam</td>
<td>HK</td>
</tr>
<tr>
<td>2011</td>
<td>R. A. Wanders</td>
<td>NL</td>
</tr>
<tr>
<td>2014</td>
<td>M. Plebani</td>
<td>IT</td>
</tr>
<tr>
<td>2017</td>
<td>E. Diamandis</td>
<td>CA</td>
</tr>
<tr>
<td>2020</td>
<td>D.B. Sacks</td>
<td>US</td>
</tr>
</tbody>
</table>
IFCC-Robert Schaffer Award for Outstanding Achievements in the Development of Standards for Use in Laboratory Medicine

This award honours an individual who has made outstanding and unique contributions to the advancement of reference methods and/or reference materials for Laboratory Medicine to facilitate improved quality of clinical diagnostics and therapies, which would in turn lead to reduced costs and improved patient care.

2017  M.M. Müller (AT)  2020  G.L. Myers (US)

IFCC Young Investigator Award

This award recognises and encourages the academic and professional development of a young investigator (under 40 years of age) who has demonstrated exceptional scientific achievements in Clinical Chemistry and Laboratory Medicine early in his/her career.

2020  L.S. Eberlin (US)

IFCC Distinguished Award for Contributions to Cardiovascular Diagnostics

This award honours an individual who has undertaken remarkable scientific work with cardiac markers or immunodiagnostic applications to improve cardiac disease diagnosis. It has been presented for the first time on occasion of the WorldLab Congress held in Durban in 2017.

2017  J.H. Ladenson (US)  2020  F. S. Apple (US)

IFCC-Gérard Siest Young Scientist Award for Distinguished Contributions in Pharmacogenetics

This award recognises an outstanding young investigator or young leader (under 40 years of age) for his/her contribution to advancing the scientific discipline of pharmacogenomics and Personalised/Precision Medicine and/or its impact on research, development, standardisation, quality management, regulatory evaluation or utilisation in therapy. The award will be presented for the first time on occasion of the WorldLab Congress to be held in Seoul in 2020.

2020  J.B. Woillard (FR)

IFCC Distinguished Women Scientist Award for Contribution to In Vitro Diagnostics

This award recognises a woman who has made significant contributions to the development or utilisation of In Vitro Diagnostics with emphasis on applications in primary healthcare. The award will be presented for the first time on occasion of the WorldLab Congress to be held in Seoul in 2020.

2020  S. Quijano (CO)

IFCC Medal for Outstanding Service

In 2017, the IFCC EB decided to introduce the “IFCC Medal for Outstanding Service” to award individuals in recognition of sustained service to IFCC at the highest level in promoting the international practice of clinical chemistry and laboratory medicine.

Recipients:
Prof. Paivi H. LAITINEN (FI)  Dr. Cas WEYKAMP (NL)
Prof. Paolo MOCARELLI (IT)  Prof. Daniel MAZZIOTTA (AR) - in memory.
# TASK FORCES

The Task Forces (TF) were established at the initiative of Prof MM Müller. They report directly to EB. A TF is addressing a topic that did not fit into any of the Divisions and is treated in the same way as Committees. Some TFs were introduced because they had often a clinical aim and IFCC still does not have a Clinical Division. Graham H. Beastall during his Presidency acted as direct liaison with the TFs. In 2018, the EB decided to rationalise their number and reintegrated the majority of them into the four Divisions.

## Chairs 2002-2020

<table>
<thead>
<tr>
<th>Task Force on Ethics (TF-E)</th>
<th>13.01.01</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. Fink</td>
<td>AR</td>
</tr>
<tr>
<td>A. Gronowski</td>
<td>US</td>
</tr>
<tr>
<td>D. Bruns</td>
<td>US</td>
</tr>
<tr>
<td>L. Burnett</td>
<td>AU</td>
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</table>

<table>
<thead>
<tr>
<th>Task Force on Pediatric Laboratory Medicine (TF-PLM)</th>
<th>13.01.02</th>
</tr>
</thead>
<tbody>
<tr>
<td>In 2018, it became an ETD Committee, C-ETPLM (Emerging Technologies in Pediatric Laboratory Medicine)</td>
<td></td>
</tr>
<tr>
<td>M. Metz</td>
<td>AU</td>
</tr>
<tr>
<td>V.L. Grey</td>
<td>CA</td>
</tr>
<tr>
<td>K. Kohse</td>
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</table>

<table>
<thead>
<tr>
<th>Task Force on Pharmacogenetics (Integrated Project) - (TF-PG)</th>
<th>13.01.03</th>
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<tbody>
<tr>
<td>In 2018, it was merged with existing SD Committee on Molecular Diagnostics (C-MD)</td>
<td></td>
</tr>
<tr>
<td>M. Linder</td>
<td>US</td>
</tr>
<tr>
<td>R. Van Schaik</td>
<td>NL</td>
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<table>
<thead>
<tr>
<th>Task Force on Chronic Kidney Disease (Integrated Project) - (TF-CKD)</th>
<th>13.01.04</th>
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<tbody>
<tr>
<td>In 2018, it became an EMD Committee, C-KD C- Kidney Disease</td>
<td></td>
</tr>
<tr>
<td>F. Alcantara</td>
<td>BR</td>
</tr>
<tr>
<td>G. Jones</td>
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<table>
<thead>
<tr>
<th>Task Force on Implementation of HbA1c Standardisation (Integrated Project)-(TF-HbA1c)</th>
<th>13.01.05</th>
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</thead>
<tbody>
<tr>
<td>This TF was closed in 2016</td>
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<tr>
<td>G. John</td>
<td>UK</td>
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<table>
<thead>
<tr>
<th>Task Force for Young Scientists (TF-YS)</th>
<th>13.01.06</th>
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<tbody>
<tr>
<td>S. Fare-Taie</td>
<td>AR</td>
</tr>
<tr>
<td>P. Kumar Dabla</td>
<td>IN</td>
</tr>
<tr>
<td>G. Ko</td>
<td>FR</td>
</tr>
<tr>
<td>D. Gruson</td>
<td>BE</td>
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</table>
### Chairs 2002-2020

<table>
<thead>
<tr>
<th>Task Force</th>
<th>Chair(s)</th>
<th>Country</th>
<th>Years</th>
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</thead>
<tbody>
<tr>
<td><strong>Task Force on Point of Care Testing (TF-PoCT)</strong></td>
<td>R. Tirimacco</td>
<td>AU</td>
<td>2012 - 2017</td>
</tr>
<tr>
<td><strong>Task Force on Proficiency Testing (TF-PT)</strong></td>
<td>A. Haliassos</td>
<td>GR</td>
<td>2014 - 2018</td>
</tr>
<tr>
<td><strong>Task Force for Geriatric Laboratory Medicine (TF-GLM)</strong></td>
<td>C. Bailon</td>
<td>CA</td>
<td>2016 - 2017</td>
</tr>
<tr>
<td><strong>Task Force Corporate Members (TF-CM)</strong></td>
<td>J. Passarelli</td>
<td>US</td>
<td>2019-2021</td>
</tr>
<tr>
<td><strong>Task Force on COVID-19</strong></td>
<td>G. Lippi</td>
<td>IT</td>
<td>2020-2022</td>
</tr>
<tr>
<td><strong>Task Force of the Global Campaign of Diabetes Mellitus</strong></td>
<td>S. Sandberg</td>
<td>NO</td>
<td>2003-2008</td>
</tr>
</tbody>
</table>

*In 2018, it became an EMD Committee, C-CB*  
Working Group on “How should Glucose Meters be Evaluated for Critical Care - (WG-GMECC)” under the responsibility of the TF-PoCT

*This TF was closed in 2014*
CONGRESSES AND CONFERENCES COMMITTEE (C-CC)

The Congress and Conference Division (CCD) was founded in 1996. In December 2007, the Division became the Committee on Congresses and Conferences. The C-CC has the major administrative and managerial responsibility for all meetings coordinated by the IFCC.

The C-CC mission is to provide general administration and management of all IFCC meeting activities (congresses, conferences, symposia) and to review applications for IFCC auspices from non-IFCC conferences requesting such sponsorship.

C-CC Executive Committee (C-CC-EC)

From left to right: T. Zima, M. Blanes Gonzales, J. Wesenberg, H. Martin, W. Fang, S. Cardinale

| Chair:                             | James Wesenberg (CA) | 2015 – 2020 |
| Members:                          | Montserrat Blanes Gonzáles (PY) | 2018 – 2020 |
|                                  | Päivi Laitinen (FI) | 2020 – 2022 |
| Corporate Representative:        | Cheryl Jackson (US) | 2018 – 2020 |
| Corresponding Members:           | Woei Horng-Fang (TW) |          |
|                                  | Helen Martin (AU) |          |
|                                  | Antonio Buto Soto (ES) |          |
|                                  | Alejandra Cano Huizar (MX) |          |
|                                  | July Kumalawati (ID) |          |

C-CC Past Chairs:

T. Ozben (TR) 2008 – 2014
A. Fraser (CA) 2005 – 2007
L. Viinikka (FI) 2003 – 2004
## INTERNATIONAL AND REGIONAL CONGRESSES

### International Congresses of Clinical Chemistry and Laboratory Medicine (ICCCLM)-WorldLab

<table>
<thead>
<tr>
<th>Congress</th>
<th>City</th>
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<tr>
<td>XXV</td>
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<td>IT</td>
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<tr>
<td>XXIV</td>
<td>Seoul</td>
<td>KR</td>
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<tr>
<td>XXIII</td>
<td>Durban</td>
<td>ZA</td>
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<td>XXII</td>
<td>Istanbul</td>
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<td>2014</td>
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<tr>
<td>XXI</td>
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<td>XX</td>
<td>Fortaleza</td>
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<tr>
<td>XIX</td>
<td>Orlando</td>
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<tr>
<td>XVIII</td>
<td>Kyoto</td>
<td>JP</td>
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### Regional Congresses of Clinical Chemistry and Laboratory Medicine (RCCCLM)

### Asia-Pacific Federation for Clinical Biochemistry and Laboratory Medicine (APFCB)

<table>
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<th>Congress</th>
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<tr>
<td>XVI</td>
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<td>X</td>
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### European Federation of Clinical Chemistry and Laboratory Medicine - EuroMedLab

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<td>XXV</td>
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<td>XXIV</td>
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<td>XXIII</td>
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<td>XVIII</td>
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<td>XVI</td>
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### Latin American Confederation of Clinical Biochemistry (COLABIOCLI)

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<th>Congress</th>
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<tr>
<td>XXV</td>
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<td>Panama</td>
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<td>XXIII</td>
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<td>XXI</td>
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<td>XX</td>
<td>Punta Cana</td>
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<td>XIX</td>
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### Arab Federation of Clinical Biology (AFCB)

<table>
<thead>
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<th>Country</th>
<th>Year</th>
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<tbody>
<tr>
<td>XVI</td>
<td>Beirut</td>
<td>LB</td>
<td>2021</td>
</tr>
<tr>
<td>XV</td>
<td>Ramallah</td>
<td>PA</td>
<td>2018</td>
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<tr>
<td>XIV</td>
<td>Khartoum</td>
<td>SD</td>
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<tr>
<td>XII</td>
<td>Marrakech</td>
<td>MA</td>
<td>2012</td>
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<tr>
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<td>LB</td>
<td>2009</td>
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<td>XI</td>
<td>Damascus</td>
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<td>X</td>
<td>Monastir</td>
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### African Federation of Clinical Chemistry (AFCC)

<table>
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<tr>
<th>Congress</th>
<th>City</th>
<th>Country</th>
<th>Year</th>
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<tbody>
<tr>
<td>VI</td>
<td>Lusaka</td>
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<td>V</td>
<td>Marrakech</td>
<td>MA</td>
<td>2019</td>
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<td>ZA</td>
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<td>Harare</td>
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<td>II</td>
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<tr>
<td>I</td>
<td>Ibadan</td>
<td>NG</td>
<td>2009</td>
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</table>
SCIENTIFIC DIVISION

The SD mission is to advance the science of Clinical Chemistry and Laboratory Medicine. The strategic goals are to identify research areas in Laboratory Medicine and to assist the transfer of results to the profession. SD provides solutions and guidelines to identify technological problems in current practice; develops reference measurement methods and releases reference materials for standardisation; establishes networks of reference laboratories; supports scientific and technical needs of Member Societies and Corporate Members.

SD Executive Committee (SD-EC)


Chair: Philippe Gillery (FR) 2017-2022
Vice Chair: Christa M. Cobbaert (NL) 2017-2022
Secretary: Joseph Passarelli (US) 2018-2020
Members:
- Barnali Das (IN) 2018-2020
- Konstantinos Makris (GR) 2017-2022
- Mario Plebani (IT) 2017-2022

Corporate Representative: Michael Rottmann (DE) 2020-2022

Consultants/Observers:
- ICHCLR Observer: Greg Miller (US)
- JCTLM Chair/SD Consultant: Ian Young (UK)
- JRC Observer/European Commission: Heinz Schimmel (BE)
- NISBC Consultant: Chris Burns (UK)
- NIST Consultant: Karen Phinney (US)

SD Past Chairs:

- Ian Young (UK) 2011 – 2016
- Mauro Panteghini (IT) 2006 – 2010
- Jean-Claude Forest (CA) 1999 – 2005
## SD Committees

### Nomenclature, Properties and Units (C-NPU)

<table>
<thead>
<tr>
<th>Chair</th>
<th>2018 - 2020</th>
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<tr>
<td>K. Toska</td>
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**Past Chairs**

<table>
<thead>
<tr>
<th>Chair</th>
<th>2003 - 2005</th>
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<tbody>
<tr>
<td>R. Flatman</td>
<td>SE</td>
</tr>
<tr>
<td>F. Pontet</td>
<td>FR</td>
</tr>
<tr>
<td>U. Forsum</td>
<td>AU</td>
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</table>

in collaboration with International Union of Pure and Applied Chemistry (IUPAC)

### Molecular Diagnostics (C-MD)

<table>
<thead>
<tr>
<th>Chair</th>
<th>2019 - 2020</th>
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<tbody>
<tr>
<td>P. Ahmad Nejad</td>
<td>DE</td>
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**Past Chairs**

<table>
<thead>
<tr>
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<th>2004 - 2009</th>
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<tbody>
<tr>
<td>D. Payne</td>
<td>CA</td>
</tr>
<tr>
<td>M. Pazzagli</td>
<td>IT</td>
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<tr>
<td>F. Rousseau</td>
<td>US</td>
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<td>C. Mannhalter</td>
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### Plasma Proteins (C-PP)

This Committee was closed in 2010

<table>
<thead>
<tr>
<th>Chair</th>
<th>2001 - 2003</th>
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<tbody>
<tr>
<td>G. Merlini</td>
<td>IT</td>
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<tr>
<td>M. Johnson</td>
<td>US</td>
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### Standardisation of Markers of Cardiac Damage (C-SMCD)

Joint activity with AACC. This Committee was closed in 2009

<table>
<thead>
<tr>
<th>Chair</th>
<th>2004 - 2009</th>
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<tbody>
<tr>
<td>F. Apple</td>
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### Standardisation of Coagulation Tests (C-SCT)

This Committee was closed in 2005

<table>
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<tr>
<th>Chair</th>
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<tbody>
<tr>
<td>C. Jackson</td>
<td>US</td>
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### Reference Systems of Enzymes (C-RSE)
This Committee was closed in 2016

**Chair**
- F. Ceriotti (IT) 2010 - 2016

**Past Chairs**
- G. Schumann (DE) 2004 - 2009
- L. Siekmann (DE) 2003 - 2005

### Bone Metabolism (C-BM)
This Committee was created from WG-HAT in 2019

**Chair**
- E. Cavalier (BE) 2019 - 2021

### Traceability in Laboratory Medicine (C-TLM)

**Chair**
- A. Kessler (DE) 2018 - 2020

**Past Chairs**
- L. Siekmann (DE) 2013 - 2018

### Reference Intervals and Decision Limits (C-RIDL)

**Chair**
- Y. Ozarda (TR) 2016 - 2021

**Past Chairs**
- K. Ichihara (JP) 2010 - 2015
- F. Ceriotti (IT) 2005 - 2009

### Standardisation of Thyroid Function Tests (C-STFT)
This Committee was created from WG-STFT in 2012

**Chair**
- H. Vesper (US) 2018 - 2020

**Past Chair**
- L. Thienpont (BE) 2012 - 2017

### Harmonisation of Autoimmune Tests (C-HAT)
This Committee was created from WG-HAT in 2017

**Chair**
- J. Sheldon (UK) 2017 - 2019

### Point of Care testing (C-POCT)
This Committee was closed in 2009

**Chair**
- A. Okorodudu (US) 2006 - 2008

**Past Chair**
- W.R. Külpmann (DE) 2004 - 2006

### SD Committees

- 8.2.21
- 8.2.22
- 8.2.23
- 8.2.24
- 8.2.25
- 8.2.26
- 8.2.27
<table>
<thead>
<tr>
<th><strong>SD Working Groups</strong></th>
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<tbody>
<tr>
<td><strong>Selective Electrodes and Biosensors (WG-SEB)</strong></td>
</tr>
<tr>
<td>This Working Group closed in 2009</td>
</tr>
<tr>
<td><strong>Chair</strong></td>
</tr>
<tr>
<td>A. Lewenstam</td>
</tr>
<tr>
<td><strong>Past Chair</strong></td>
</tr>
<tr>
<td>W.R. Külpman</td>
</tr>
<tr>
<td><strong>Reference methods for apolipoproteins (WG-MA)</strong></td>
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<tr>
<td>This Working Group closed in 2009</td>
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<tr>
<td><strong>Chair</strong></td>
</tr>
<tr>
<td><strong>Standardisation of human chorionic gonadotropin (WG-SHCG)</strong></td>
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<td>This Working Group closed in 2009</td>
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<tr>
<td><strong>Chair</strong></td>
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<tr>
<td>C. Sturgeon</td>
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<tr>
<td><strong>Standardisation of Lp(a) (WG-Lp(a))</strong></td>
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<tr>
<td>This Working Group closed in 2003</td>
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<tr>
<td><strong>Chair</strong></td>
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<tr>
<td>A. Steinmetz</td>
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<tr>
<td><strong>Standardisation of Hb (WG-HbA1c)</strong></td>
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<tr>
<td>This Working Group closed in 2009 and transformed in “Task Force on Implementation of HbA1c Standardisation - Integrated Project (TF-HbA1c)”</td>
</tr>
<tr>
<td><strong>Chair</strong></td>
</tr>
<tr>
<td>G. John</td>
</tr>
<tr>
<td><strong>Past Chair</strong></td>
</tr>
<tr>
<td>K. Miedema</td>
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<tr>
<td><strong>Nanotechnology (WG-NT)</strong></td>
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<td>This Working Group closed in 2006</td>
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<td><strong>Chair</strong></td>
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<td>L. Kricka</td>
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<tr>
<td><strong>Laboratory Practice Guidelines on Monitoring Immunosuppressive Drugs (WG-MID)</strong></td>
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<tr>
<td>Joint activity with IATDMCT. This Working Group closed in 2006</td>
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<tr>
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<td>D. Holt</td>
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<td><strong>Standardisation of Total Plasma Homocysteine Measurement (WG-SHM)</strong></td>
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<td><strong>Chair</strong></td>
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<td>E. Rossi</td>
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<td><strong>Standardisation of Thyroid function tests WG-STFT</strong></td>
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<td>This WG was transformed into C-STFT in 2012</td>
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## SD Working Groups

<table>
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<th>Standardisation of Hemoglobin A2 (WG-HbA2) - Joint WG IFCC-ICSH</th>
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<td>R. Paleari</td>
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<td>PM Wielders</td>
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<tr>
<td>F. Schellenberg</td>
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<th>Standardisation of Cystatin C (WG-SCC)</th>
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<th>Standardisation of Glomerular Filtration Rate Assessment (WG-GFRA)</th>
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<td>G. Miller</td>
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<td>M. McQueen</td>
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<td>K. Pettersson</td>
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<tr>
<td>M. Bidlingmaier</td>
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### Standardisation of Insulin Assays (WG-SIA)

**Chair**
R. Christenson  
US 2018 - 2022

**Past Chairs**
D. Bunk  
US 2015 - 2017
J. Tate  
AU 2008 - 2014

**Co-Chairs**
M. Steffes  
US
J. Seegmiller  
US

### Standardisation of Troponin I (WG-TNI)

**Chair**
R. Christenson  
US 2018 - 2022

**Past Chairs**
D. Bunk  
US 2015 - 2017
J. Tate  
AU 2008 - 2014

### Allowable Errors for Traceable Results (WG-AETR)

This WG was closed in 2013

**Chair**
R. Bais  
AU 2010 - 2013

### Harmonisation of Autoantibody Tests (WG-HAT)

This WG was transformed into C-HAT in 2017

**Chair**
J. Sheldon  
UK 2010 - 2016

### Quality Specifications for Glucose POCT (WG-GPOCT)

This Working Group was transformed into “Task Force on Point of Care Testing (TF-POCT)” in 2012

**Chair**
R. Tirimacco  
AU 2010 - 2012

### Clinical Quantitative Mass Spectrometry Proteomics (WG-cMSP)

This WG was closed from 2016

**Chair**
S. Lehmann  
FR 2011 - 2016

### Parathyroid Hormone (WG-PTH)

This WG merged in C-BM in 2019

**Chair**
C. Sturgeon  
UK 2012 - 2018

### CSF-Proteins (WG-CSF)

**Chair**
J. Gobom  
SE 2018 - 2020

**Past Chair**
K. Blennow  
SE 2012 - 2017

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**IFCC MILESTONES 2002-2020 SCIENTIFIC DIVISION**

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8.3.42
8.3.43
8.3.44
8.3.45
8.3.46
8.3.47
8.3.48
8.3.49
## SD Working Groups

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<th>Country</th>
<th>Years</th>
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<tr>
<td><strong>Standardisation of Bone Marker Assays (WG-SBMA)</strong></td>
<td>E. Cavalier</td>
<td>BE</td>
<td>2018 - 2020</td>
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<td>in collaboration with IOF. This WG merged in C-BM in 2019</td>
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<td><strong>Commutability in Metrological Traceability (WG-CMT)</strong></td>
<td>H. Morris</td>
<td>AU</td>
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<td><strong>Continuation until Dec 2019 Commutability (WG-C)</strong></td>
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<td><strong>Immunosuppressive Drugs (WG-ID)</strong></td>
<td>C. Seger</td>
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<td>2018 - 2020</td>
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<td><strong>Apolipoproteins by Mass Spectrometry (WG-APO MS)</strong></td>
<td>C. Cobbaert</td>
<td>NL</td>
<td>2020 - 2022</td>
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<td><strong>Pancreatic Enzymes (WG-PE)</strong></td>
<td>D. Grote-Koska</td>
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<td><strong>Fecal Immunochemical Testing (WG-FIT)</strong></td>
<td>S. Benton</td>
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<td><strong>Cell free DNA and related circulating biomarkers (WG-cfDNA)</strong></td>
<td>R. van Schaik</td>
<td>NL</td>
<td>2018 - 2020</td>
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<td><strong>WG on Procalcitonin (WG-PCT)</strong></td>
<td>V. Delatour</td>
<td>FR</td>
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<td><strong>Vitamin D Standardisation Program (WG-Vit D)</strong></td>
<td>C. Sempos</td>
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<td>2018 - 2020</td>
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<td><strong>Continuous Glucose Monitoring (WG-CGM)</strong></td>
<td>G. Freckmann</td>
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<td>2019 - 2021</td>
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</table>
Prof. Jean-Claude Forest (2000 - 2005)


Prof. Mauro Panteghini (2006 - 2010)


Prof. Ian Young and Prof. Philippe Gillery (2011-2016 / 2017-2020)

Establishing a Committee on bone metabolism gathering the activities previously performed in working groups on PTH, bone markers and vitamin D. Focusing on Molecular Diagnostics & Pharmacogenomics. New WGs on immunosuppressive drugs, cancer, continuous glucose monitoring, apolipoprotein, procalcitonin. European network of National Measurement Institutes (NMIs) through the call for European Metrology Programme for Innovation and Research (EMPIR) projects.

In all cases, a close relationship was ensured with manufacturers, national metrology institutes and clinical societies. Memorandum of understanding was established between IFCC and ICHCLR (previously Harmonisation initiative of the AACC).

From 2002 to 2020 the Scientific Division, with its functional Units, published more than 100 publications. For more information refer to the IFCC website.
EDUCATION AND MANAGEMENT DIVISION

EDM provides IFCC members and the healthcare community with educational documents relevant to clinical chemistry and laboratory medicine, directed by scientific, clinical and managerial issues. The EDM Guidelines are bases of curricula in Laboratory Medicine globally.

EMD Executive Committee (EMD-EC)

Left to right: A. Ziegler, N. Rifai, V. Steenkamp, S. Cardinale, L. Lai

| Chair:      | Leslie Lai (MY)                          | 2015 – 2020 |
| Corp. Rep. and Secretary: | André Ziegler (CH)                     | 2017 – 2019 |
| Members:   | Nader Rifaï (US)                        | 2018 – 2020  |
|            | Sedef Yenice (TR)                       | 2020 – 2022  |
|            | Vanessa Steenkamp (ZA)                  | 2018 – 2020  |

EMD Past Chairs:

| Maurizio Ferrari (IT) | 2012 – 2014 |
| Janet Smith (UK)      | 2006 – 2011 |
| Gerard Sanders (NL)   | 2000 – 2006 |
## EMD Committees

### Clinical Molecular Biology Curriculum (C-CMBC)

<table>
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<tr>
<th>Chair</th>
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<th>2020 - 2022</th>
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<tr>
<td>E.Lianidou</td>
<td>GR</td>
<td>2014 - 2019</td>
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<tr>
<td>M.Neumaier</td>
<td>DE</td>
<td>2008 - 2013</td>
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<tr>
<td>M.Ferrari</td>
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### Analytical Quality (C-AQ)

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<tr>
<td>E.Amann</td>
<td>DE</td>
<td>2014 - 2016</td>
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<tr>
<td>E.Amann co-chair</td>
<td>DE</td>
<td>2011 - 2013</td>
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<tr>
<td>J.Jill co-chair</td>
<td>AU</td>
<td>2011 - 2013</td>
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<tr>
<td>K.Sikaris</td>
<td>AU</td>
<td>2004 - 2009</td>
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<tr>
<td>A.Uldall</td>
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### Evidence Based Laboratory Medicine (C-EBLM)

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<tr>
<td>C.Florkowski</td>
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<tr>
<td>R.Christenson</td>
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<tr>
<td>A.R. Horvath</td>
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### Education and Curriculum Development (C-ECD)

This Committee was closed in 2010

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### EMD Committees

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<td>E. Frank</td>
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<th>Value Proposition for Laboratory Medicine (C-VPLM)</th>
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# EMD Working Groups

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<tr>
<th>Working Group</th>
<th>Chair/Chairs</th>
<th>Chair/Country</th>
<th>Year(s)</th>
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<tbody>
<tr>
<td>Master in Clinical Laboratory Science, La Plata University Program (WG-MLS)</td>
<td>N. Fink</td>
<td>AR</td>
<td>2001 - 2003</td>
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<td>Laboratory Management of r-HuePO therapy (WG-EPO)</td>
<td>L. Thomas</td>
<td>DE</td>
<td>2002 - 2006</td>
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<td>This working Group was closed in 2006</td>
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<td>Reviewing Educational Materials (WG-REM)</td>
<td>B. Dufour</td>
<td>US</td>
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<td>Working Group on Distance Education (WG-DE)</td>
<td>D. Juretic</td>
<td>HR</td>
<td>2003 - 2006</td>
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<tr>
<td>Laboratory Errors and Patient Safety (WG-LEPS)</td>
<td>M. Plebani</td>
<td>IT</td>
<td>2020 - 2022</td>
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<td>Chair</td>
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<td>Bone Markers Standards on Osteoporosis (WG-BMS)</td>
<td>S. Vasikaran</td>
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<td>2009 - 2011</td>
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<td>Harmonisation of Interpretive Comments EQA (WG-ICQA)</td>
<td>M. Turzyniecka</td>
<td>ZA</td>
<td>2020 - 2022</td>
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<td>S. Vasikaran</td>
<td>AU</td>
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<tr>
<td>Personal Support (WG-PS)</td>
<td>G. H. Beastall</td>
<td>UK</td>
<td>2018 - 2020</td>
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<tr>
<td>Previously Mentoring Programme for Developing Countries</td>
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## EMD Special Projects

### Visiting Lecturer Programme (VLP)

<table>
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<th>2018 - 2020</th>
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<td>N.Rifai</td>
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**Past Chairs**

<table>
<thead>
<tr>
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<th>2013 - 2017</th>
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<tr>
<td>E.Frank</td>
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<tr>
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<td>L.Lai</td>
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### Flow Cytometry (WG-FC)

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<td>C.Lambert</td>
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**Past Chairs**

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<td>U.Sack</td>
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<td>G.Rothe</td>
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### Developing Quality Competence in Medical Laboratories (DQCML)

<table>
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<td>E.Amann</td>
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**Past Chair**

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<tbody>
<tr>
<td>M.Thomas</td>
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</table>

### Mentoring Programme (MENT)

This Special Project was closed in 2017

<table>
<thead>
<tr>
<th>Chair</th>
<th>US</th>
<th>2015 - 2017</th>
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<tr>
<td>D.Young</td>
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### IFCC-Abbott Visiting Lecturer Programme (VLP)

The IFCC-Abbott Visiting Lecturer Programme (VLP) is a programme to support international exchange of lecturers and aims to facilitate international educational exchanges within IFCC.
EMD GOLDEN ACHIEVEMENTS

The traditional Visiting Lecture Programme for emerging countries was expanded by generous educational grant from Abbott during the recent years with the help of Jocelyn Hicks. In 2019, a total of 39 visiting lecturers, went abroad.

Development of a curriculum and comprehensive hands-on laboratory training courses in basic diagnostic molecular biology techniques initially provided in Italy by Maurizio Ferrari and expanded to other countries. From 2009, a keystone change in the Committee on Clinical Molecular Biology Curriculum (C-CMBC) Course concept was the “lab-in-a-suitcase” principle, aiming to bring the molecular techniques to the participants’ countries and to perform them in their everyday working environments.

Special training courses on Quality Competence for the emerging countries.

From 2002 to 2020 the Education and Management Division, with its functional Units, published 38 publications. For more information refer to the IFCC website.
COMMUNICATIONS AND PUBLICATIONS DIVISION

The mission of CPD is to provide worldwide communications about the work of the IFCC to clinical laboratory professionals, physicians and health policy-makers, and to provide continuing education materials and services in printed and electronic forms. The Division is responsible for the IFCC website, the IFCC eAcademy, and the online publications: the eJournal (eJIFCC) and IFCC eNewsletter. Scientific documents are published in Clinica Chimica Acta (CCA) – the official scientific IFCC journal, and also with other publishers.

CPD is publishing educational tools, including scientific monographs. Important IFCC documents are also translated into languages other than English. The IFCC eAcademy is an open educational resource containing distance learning materials. The CPD is responsible for public relations activities.

CPD Executive committee (CPD-EC)

Left to right: M.C. Pasquel, K. Psarra, R. Erasmus, J. Grant, S. Colli Lanzi, T. Pillay, J. Kappelmayer, A. Newman, T. Ravalico, E. Freggiaro
Chair: Tahir Pillay (ZA) 2019 – 2021
Secretary & Publications
Distance Learning Coordinator: Eduardo Freggiaro (AR) 2017 – 2022
Vice Chair & IFCC eJournal Editor: János Kappelmayer (HU) 2018 – 2020
eNewsletter Editor & eNews Flash Editor: Katherina Psarra (GR) 2019 – 2021
Member & Public Relations Coordinator: Rajiv Erasmus (ZA) 2019 – 2021
Corporate Representative: Tricia Ravalico (US) 2018 – 2020

CPD Past Chairs:
K. Adeli (CA) 2013 – 2018
E. Jacobs (US) 2007 – 2012
A. Wootton (AU) 2004 – 2006

Web Editor and IFCC App Coordinator: D. Tocpu (TR) 2020 – 2022
J. Grant (AU) 2014 – 2019
Social Media Coordinator: R. Shrestha (NP) 2020 – 2022
Web Editor: P. Vervaart (AU) 2011 – 2013
Editor of documents: P. Lehman (US) 2001 – 2003
CPD Committees

Public Relations (C-PR) 10.2.1

Chair
Rajiv Erasmus ZA 2019 - 2021

Past Chairs
E. Delvin CA 2013 - 2018
K. Adeli CA 2008 - 2013

Internet and e-Learning (C-ieL) 10.2.2

Chair
E. Freggiaro AR 2018 - 2020

Past Chair
P. Vervaart AU 2011 - 2016

CPD Working Groups

eJIFCC (ISSN number (1650-3414) and WG-eJIFCC 10.3.1

Chair & Editor eJIFCC
J. Kappelmayer HU 2018 - 2020

Past Chairs
GL. Kovács HU 2012 - 2017
G. Sypniewska PL 2006 - 2011
D. Williams UK 2001 - 2006

10.3.2. WG-IFCC News 10.3.2

News Editor
Katherina Psarra GR 2019 - 2021

Past Chairs
T.S. Pillay ZA 2013 - 2018
E. Delvin CA 2007 - 2012
E. Jacobs US 2001 - 2006
### Internet and Distance Learning (WG-IDL)
This WG closed in 2011

**Chair**

T. Ta  
VN  
2009 - 2011

### World Wide Web WG-WWW
This WG closed in 2008

**Past Chairs**

G. Sypniewska  
PL  
2006 - 2008

C. Webster  
UK  
1999 - 2004

### Ibero-American Nomenclature and Translations (WG IANT)

**Chair**

R. Girardi  
AR  
2020 - 2022

**Past Chairs**

M. del Carmen Pasquel  
EC  
2014 - 2019

M. Blanes Gonzalez  
PY  
2008 - 2013

X. Fuentes-Arderiu  
ES  
2002 - 2008

**DiV Editor**

R. Girardi  
AR  
2020 - 2022

**Past Editors**

M. del Carmen Pasquel  
EC  
2014 - 2019

M. Blanes Gonzalez  
PY  
2008 - 2013

X. Fuentes-Arderiu  
ES  
2002 - 2008
CPD GOLDEN ACHIEVEMENTS

New IFCC Website with Content Management System
Joint IFCC-Labs are Vital campaign
IFCC Promotional Brochure in nine languages
IFCC Speakers Bureau (2007)
C-Public Relations and Siemens
IFCC Distance Learning Program (2008)
Spanish (Ibero-American) Nomenclature & Translations (RIA) (2010)
IFCC on Facebook & LinkedIn (2011)
eLearning Programme (2012)
Clinica Chimica Acta (Elsevier) became official journal of the IFCC (2013)
IFCC Tweeter profile and eNews Flash (2016)
eJIFCC indexed in PubMed Central (PMC)(2016)
IFCC Instagram account and IFCC App (2017)
Monthly publication of IFCC eNews (2018)
Fully Online eConferences
Monthly WebCasts/Webinars Worldwide
Member Surveys by all IFCC EB and all Divisions (SD, EMD, CPD, ETD)
IFCC Curriculum development
eAcademy as an open educational resource (https://eacademy.ifcc.org/)

From 2002 to 2020 the Communications and Publications Division, in addition to IFCC electronic publications, with its functional Units, published 17 publications. For more information refer to the IFCC website.

www.ifcc.org
The IFCC Emerging Technologies Division (ETD) is a new Division founded in January 2018. The ETD is responsible for identifying and assessing emerging technologies such as mass spectrometry, high throughput genotyping techniques, mobile health and artificial intelligence and for translating the emerging and disruptive diagnostic and data analysis procedures from academic laboratories to clinical laboratories and from clinical laboratories to market. This division is also contributing to a better understanding of the impact of precision medicine, emerging area with tremendous potential in developing tailor-made preventive diagnostics, therapeutics, and management strategies based on an individual’s “omics” profiles.

**ETD Executive committee (ETD-EC)**

*Left to right: B. Gouget, M. Ferrari, S. Bernardini, M. Roessler, T. Payne, R. Greaves, D. Gruson, L. Kricka, S. Colli Lanzl*

<table>
<thead>
<tr>
<th>Chair:</th>
<th>S. Bernardini (IT)</th>
<th>2018 - 2020</th>
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<tbody>
<tr>
<td>Vice-Chair:</td>
<td>P. Fortina (US)</td>
<td>2018 - 2020</td>
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<tr>
<td>Secretary:</td>
<td>R. Greaves (AU)</td>
<td>2018 - 2020</td>
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<tr>
<td>Member:</td>
<td>D. Gruson (BE)</td>
<td>2018 - 2020</td>
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<td>Corporate Members:</td>
<td>M. Roessler (DE)</td>
<td>2018 - 2020</td>
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<td>P. Yin (US)</td>
<td>2018 - 2020</td>
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<tr>
<td>Consultants:</td>
<td>M. Ferrari (IT)</td>
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<td></td>
<td>L. Kricka (US)</td>
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<td>H. Martin (AU)</td>
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<td></td>
<td>J. Park (US)</td>
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ETD Committees

Emerging Technologies in Pediatric Laboratory Medicine (C-ETPLM) 11.02.01
Chair
T. Lang UK 2018 - 2020

Committee on Mobile Health and Bioengineering in Laboratory Medicine (C-MHBLM) 11.02.02
Chair
B. Gouget FR 2018 - 2020

Committee for Omics Translation (C-OT) 11.02.03
Chair
G. J. Tsongalis US 2019 - 2021

ETD Working Groups

11.03.01 Volatolomics (WG-Vol) 11.03.01
Chair
L. Kricka US 2019 - 2021

11.03.02 WG Guidance for the implementation of custom-made genomic panels (WG-CGP) 11.03.02
Chair
J. Morrisette US 2019 - 2021

ETD GOLDEN ACHIEVEMENTS

Creation of an informed and empowered community of providers, innovators and changemakers from 28 countries to share expertise, collaborate over borders and foster innovation both individually and as a group for a better understanding of the cutting edge and emerging technologies.
Organisation of numerous innovative scientific networking events for building connections and matchmaking with startups, and industry at large.
Survey of the diagnostic applications of volatolomics.
Survey on m-Health to provide appropriate training opportunities to healthcare and lab professionals.
Promotion of digital health literacy and evaluation of the impacts for chronic diseases management as in cardiology.
Insights into the application of artificial intelligence and ethics in lab medicine.

Principe publication: Key questions about the future of laboratory medicine in the next decade of the 21st century: A report from the IFCC-Emerging Technologies Division*. CCA 2019; Aug;495:570-589.

From 2018 to 2020 the Emerging Technologies Division, with its functional Units, published 3 publications.
**TASK FORCE YOUNG SCIENTISTS**

The aim of TF-YS is to ensure that young scientists make a significant and growing contribution to the activities of IFCC. The objective is to identify young scientists (below 40) amongst IFCC community. They establish interactive networks to share experiences and to promote innovation and high quality scientific and clinical practice standards. Their participation in IFCC activities grants the future of IFCC.


<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Period</th>
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<tbody>
<tr>
<td>Chair</td>
<td>S. Fares Taie (AR)</td>
<td>2020 - 2022</td>
</tr>
<tr>
<td>Co-Chair</td>
<td>G. Sancesario (IT)</td>
<td>2020 - 2022</td>
</tr>
<tr>
<td>Members</td>
<td>J. El-Khoury (US)</td>
<td>2019 - 2021</td>
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<td></td>
<td>A. Rampul (ZA)</td>
<td>2019 - 2021</td>
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<td>I.W. Masfufa (ID)</td>
<td>2020 - 2022</td>
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<td>C. Imperiali (ES)</td>
<td>2020 - 2022</td>
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<tr>
<td>Consultants</td>
<td>P. Kumar Dabla (IN)</td>
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<td></td>
<td>D. Gruson (BE)</td>
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<td>EB Laison</td>
<td>T. Ozben (TR)</td>
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<td>SD Liaison</td>
<td>B. Das (IN)</td>
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**Past Chairs:**

- P.K. Dabla (IN) 2014 - 2019
- G. Ko (FR) 2013
- D. Gruson (BE) 2010 - 2012
YS GOLDEN ACHIEVEMENTS

COMPLIMENTARY EDUCATIONAL WEBINARS

IFCC-TFYS
Educational Webinar Series

RADIO EL MICROSCOPIO

A guide to conducting research in laboratory medicine

by Graham Beastall, Pradeep Kumar Dabla, Endang Hoyaranda, Ferry Sandra, Vanessa Steenkamp

The aim of this publication is to provide insight into the research process and an overview of the strengths and weaknesses of different research methods to young scientists at various levels of their profession and career.

Lab-Surfing is a Laboratory professional social media designed and created in order to fulfill the unattended needs of Young Scientists (YS)
IFCC INITIATIVES FOR THE YS

IFCC Professional Exchange Programmes (PEP)

IFCC offers a small number of scholarships each year to facilitate professional exchange programmes for young scientists. IFCC has developed two categories of professional exchange programme: Professional Scientific Exchange Programme (PSEP), Professional Management Exchange Programme (PMEP).

APFCB Scholarship Awardees with IFCC authorities

IFCC President, Prof. M. Ferrari, APFCB Congress President, Prof. P. Sharma, and representatives of the IFCC Task Force for Young Scientists among them. Congratulations to: Yati Sumiyati (ID), Joseph Dian Bondu (IN Full), Ray Lopamudra (IN Aff), David Enoch Kawalya (KE), Nada Yousfi (TN), Itua Akhabue Igene (NG), Sangita Gimire (NP Full).

Mentoring Programme

The Mentoring Program is designed to guide a mutual relationship between an experienced specialist in Lab Medicine (mentor) and a young scientist (mentee).
Congratulations to: Eliane Zgheib (LB), Idris Yahaya Mohammed (NG), Lucius Chidiebere Imoh (NG), Dineo Valencia Mabuza (ZA), Mutale Mubanga (ZM).

March - May 2018, PSEP: Alba Alonso Llorente, at Prof Céline Verstuyft Pharmacogenetics Laboratory, in the Hôpital Bicêtre, at Le Kremlin Bicêtre, France
COLABIOCLI IFCC and IFCC Roche Scholarship

COLABIOCLI Scholarships Reception with Awardees and, L-R: EB COLABIOCLI Representative, Dr. R.I. Sierra-Amor, IFCC President, Prof. M. Ferrari, IFCC Treasurer, Prof. T. Ozben
Congratulations to: Alvaro Paul Justiniano Cortez (BO), Harlem Róterdan de León Natareno (GT), Patricia Elizabeth Osorio Pozo (EC), Carmen Maria Castro Ruiz (CO), Jorge Hernández-Bello (MX), Aurora Amarilla (PY)

EuroMedLab Barcelona 2019 - IFCC Roche Scholarship

May 2019, IFCC ROCHE Travel Scholarship recipients group in Barcelona along with IFCC authorities and members of the IFCC TF-YS
The IFCC Foundation for Emerging Nations (FEN) is a non-profit making Charitable Trust established in 2016 under Swiss Law by the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC). The FEN is devoted to fund raising and to supporting programmes that help to improve the quality and delivery of laboratory medicine services, particularly in emerging nations.

FEN Board of Directors

Graham H Beastall (UK), Chair
Michelle Rossier (CH)
Thomas Brinkmann (DE)
Lucia Monaco (IT)
Tomris Ozben (TR)

DONATIONS

Bank: Credit Suisse, Geneva, Switzerland
Account Name: IFCC Foundation for Emerging Nations
SWIFT code: CRESCHZZ12A
IBAN: CH33 0483 5158 8655 2100 0
Account number: 0251-1588655-21
Projects supported by FEN:

“Lab Surfing”: A resource to facilitate global exchange between young scientists (2016). “Lab Surfing” is a project designed by TF-YS and proposed by YS from Argentina, India and Nigeria.

“Adopt a Professional”: Collaboration to support the training of laboratory medicine specialists. This project is a collaboration between the FEN and the Società Italiana di Biochimica Clinica e Biologia Molecolare Clinica (SIBioC) (2017-2018)

“AFCC AfricaMedLab Internet Radio” (2017). The “El Microscopio” team (AR) are supporting the development of internet radio in Africa

External assessment of proficiency of malaria microscopists and laboratory capacity in districts stratified for malaria elimination in Ethiopia (2017)

The FEN-SNIBE “Support a Professional Programme” (2019) enabled Dr Sibtain Ahmed from Pakistan to spend three months in the laboratory of Prof Tomris Ozben in Antalya, Turkey. During this visit Dr Ahmed experienced specialist technologies and participated in the quality management system