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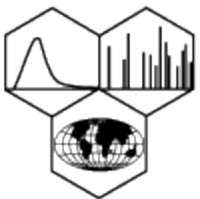
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International Association of Therapists Annual General Assembly | December 13, 2016 Assembly | December 13, 2016

# WELCOME

## EXECUTIVE COMMITTEE

President: Loralie Langman, USA

Past President: Pierre Wallemacq, Belgium

President Elect: Teun van Gelder, Netherlands

Secretary: Yusuke Tanigawara, Japan

Treasurer: Gwen McMillin, USA

## DIRECTORS OF EDUCATION

Merce Brunet, Spain

Katharina Rentsch, Switzerland

Maria Shipkova, Germany

## COUNCILLORS

Debbie Marriott, Australia

Markus Meyer, Germany

Franck Saint-Marcoux, France

Christoph Seger, Austria



International Association of Therapeutic Drug Monitoring Annual General Assembly | December 13, 2016

# President's Report

**Loralie Langman**

# Year in Review

- TDM Journal
  - Enlisted the services of Editage to provide professional English editing services
    - Improve consistency and quality of the language in the journal.



# Year in Review

- Our membership is holding just shy of 600 members
  - you will hear more about this in the Secretary's report
- The Directors of Education and Scientific Committees and their members have been busy with an amazing number of projects that you will hear about in their individual reports
  - I will mention the following meetings:
    - The IATDMCT 4th Joint EFLM-UEMS congress, Warsaw, Poland
    - XVI Congress of Clinical Biochemistry & IATDMCT Regional Meeting in Kuşadası, Turkey; and the 2016 IATDMCT Asia Pacific Regional Meeting in Guangzhou, China.

# Year in Review

- The Communications Committee has been busy with the Compass newsletter and e-news, and the presence on social media
- Lastly is the Young Scientist Committee has been very active and making regular contributions to the Compass and to social media and presentations at meetings.
  - I think this shows that the future of the IATDMCT will be in good hands.



### Personal Reflections

#### DEAR IATDMCT MEMBERS,

As 2016 draws to a close, we all look back on the year and reflect on the list of tasks accomplished. As I write on the IATDMCT and 2016 close it seems to reflect on:

The general line program under the patronage of Michael Doherty and Uwe Christian, as well as the many references from our membership.

This membership is holding just shy of 600 members and the 2016 Member-Go-A-Member Campaign 2016 is coming down on end, but it's not over yet. There is still time.

The Division of Education and Training, Committee and their members have been busy with an amazing number of projects throughout the summer to date that committees have. I will mention the following meetings: The IATDMCT 4th State of the Union meeting, Warsaw, Poland, regional meeting for the 5th Congress of Clinical Biochemistry & IATDMCT Regional Meeting in Budapest, Turkey and the 2016 IATDMCT Asia Pacific Regional Meeting in Guangzhou, China.

The Committees Committee has been busy with the Committee members and a series of plans already in place in the coming period of the IATDMCT on such events which is another activity that the committee has done a tremendous job with.

Lastly is the Young Scientist Committee, but certainly not least. This very active group of young scientists have been making regular contributions to the Compass and to social media and presentations. I think this demonstrates the future of the IATDMCT will be in good hands.

It is my pleasure to serve you as President for the International Association of Therapeutic Drug Monitoring and Clinical Toxicology (IATDMCT). Thank you to all who have made 2016 such a success and I will see you all a healthier and prosperous 2017.

Wishes Regards,  
Linda Caperton

*We may be separated by geography but we are united by science. I look forward to meeting all of you at future IATDMCT congresses.*



### Reports of the Scientific Committees



#### MEDICAL CANNABIS USE AND MISUSE, INDUSTRY AND CLINICAL TOXICOLOGY VIEWS

Dr. Marlene D. Provenza, In Vitro Drug Safety and Toxicology, Pharmacology and Toxicology, University of Toronto, Canada  
*On behalf of the Clinical Toxicology and Drug of Abuse Committee.*

#### Part 1

On behalf of the Drug of Abuse Committee of the IATDMCT, I would like to warmly represent a symposium defining the importance of medicinal as well as medical cannabinoids. The symposium titled "Medical Abuse and Medical Cannabinoids: The Intersection of Clinical Toxicology Experts" was held for part of the Annual Meeting of the Canadian Association of Clinical Pharmacists in Edmonton, Alberta, Canada in June 2016.

Marlene, I participated in "The International Medical Cannabis Conference" held in St. John's, Newfoundland, 2016. The conference provided an unprecedented stage for the entire medical Cannabis community. Certainly the IATDMCT professionals have not been represented at the conference and the possible toxicological or drug-Cannabis interactions did not receive any space in the agenda of the 3 day international meeting. In fact at the meeting global journal editors of cannabinoids I will present a plethora of new developments of the field as well as current of substance professionals.

#### IN THIS ISSUE

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# President Elect's Report

**Teun van Gelder**

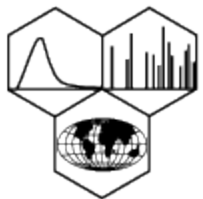


# President-Elect's Report

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## ■ Future IATDMCT congresses:

- Kyoto 2017 (update)
- Brisbane 2018 (update)
- Florianopolis 2019
- Banff 2020
- ??? 2021 (2 initiatives from Europe)





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# Secretary's Report

**Yusuke Tanigawara**

# Secretary's Report

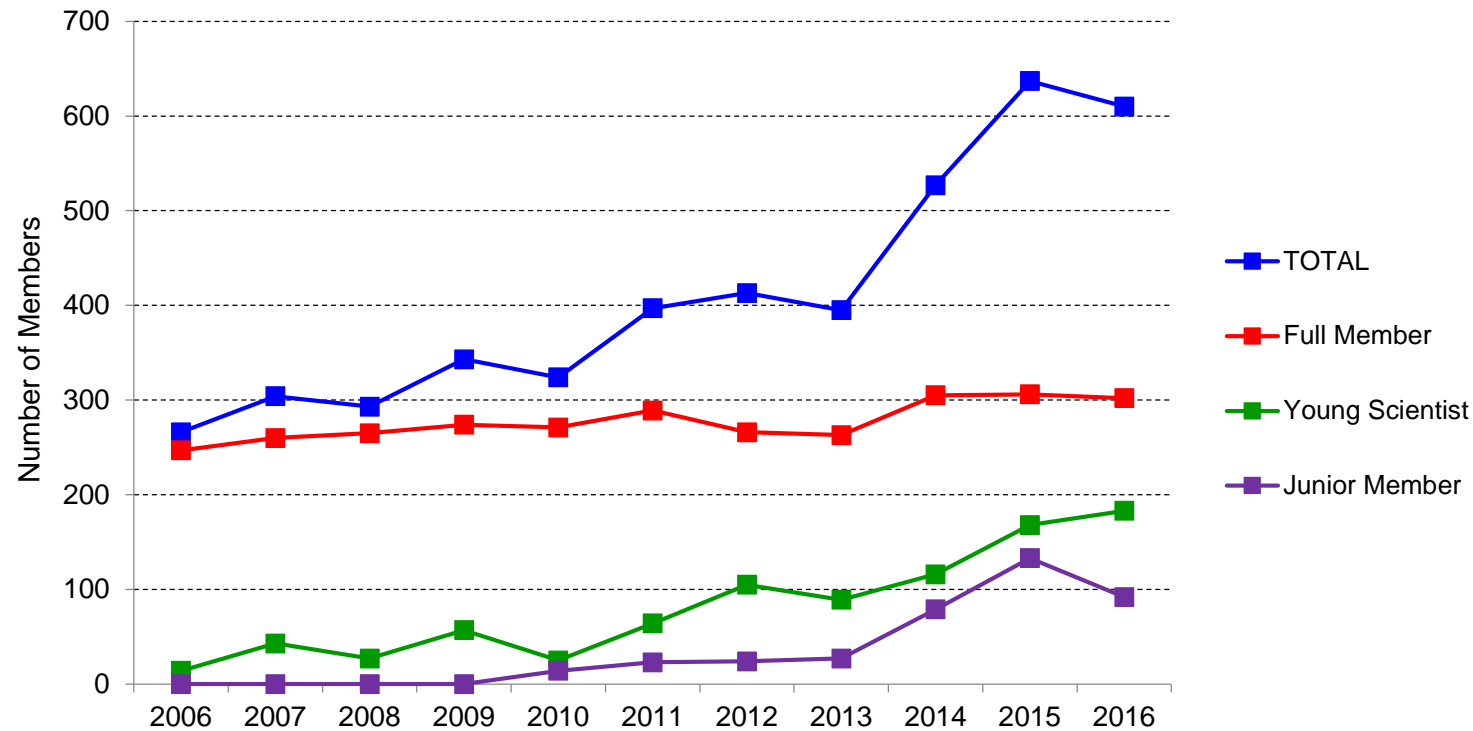
- Membership Report
  - Updated IATDMCT Membership Summary (As of November 30, 2016)

Type	Numbers	%	New	Lapsed
Full Member	302	50%	30	38
Young Scientist	183	30%	68	55
Junior Member	92	15%	44	68
Member Award	7	1%	0	0
Retired	20	3%	2	1
Honorary	6	1%	0	0
<b>TOTAL</b>	<b>610</b>	<b>100%</b>	<b>144</b>	<b>162</b>

# Secretary's Report

- Membership Report

– 10-year trends in the IATDMCT memberships



*From the IATDMCT Office Database*

# Secretary's Report

- Membership Report
  - Top 10 countries in membership numbers

Country	Paid 2017	Paid 2016	Total	Lapsed
USA	27	53	80	17
Japan	37	33	70	10
The Netherlands	16	31	47	22
India	17	26	43	24
Germany	16	16	32	2
Canada	10	18	28	3
United Kingdom	14	13	27	3
Belgium	11	14	25	7
Brazil	6	15	21	3
Switzerland	9	10	19	2

# Secretary's Report

- Membership Report
  - Top 10 countries in new member recruitment

Country	New members
India	22
Brazil	12
Uzbekistan	8
China	7
Egypt	7
Germany	6
Italy	6
The Netherlands	5
Malaysia	5
Mexico	5
Turkey	5

# Secretary's Report

- **Membership summary**

- The current number of IATDMCT membership is 610, which is similar to the number of 2015 (total 637).
- The 2017 membership is expected to increase because new members join during the year of the Congress.
- Remarkable recruitment emerges in new regions particularly India, Brazil, Uzbekistan, China and Egypt. The IATDMCT is growing to a global society.
- Young/Junior members account for 45% of the total members.

# Secretary's Report

- Retired Membership
  - 30 USD/year (cf. Full member: 120 USD/year)
  - Definition and procedure to apply for the 'retired' membership has been documented.
  - This membership is eligible for people *fully retired*.
  - A person who is retired from full-time practice and full-time employment.
  - No regular income except pension and interests.
  - A person who was a *former Full member*.
  - Each applicant must declare that he/she is fully retired.



# Secretary's Report

- **Member-Get-A-Member Campaign 2016**
  - The 2016 MGM Campaign began on January 1st and will end on December 31st, 2016.
  - The current leader is ???, who successfully recruited ?? new members.
  - The winner will be announced on E-news or *Compass*.
  - The top "Recruiter" will receive free registration for the Kyoto Congress 2017.
- **Member-Get-A-Member Campaign 2017**
  - The Campaign starts on January 1st and ends on August 31st, 2017.
  - The winner gets free registration for the Kyoto Congress.

# Secretary's Report

- Scientific Committees

- Thank all Scientific Committees for submitting proposals for symposia, plenary and roundtables for the IATDMCT Congress in Kyoto.

Number of proposals (as of Dec. 8th)	Symposia	Plenary	Roundtables	Total
1. Executives/Council Members	1	1		2
2. Alternative Sampling Strategies Committee	2	1	2	5
3. Anti-Infective Drugs Committee	3	3	2	8
4. Clinical Toxicology/Drugs of Abuse Committee	6	2	1	9
5. Immunosuppressive Drugs Committee	2	1	1	4
6. Pharmacogenetics Committee				0
7. Pharmacometrics Committee	1			1
8. Standards of Practice Committee	1		2	3
9. TDM in Oncology Committee	4	1		5
10. Young Scientists Committee	1			1
Total	21	9	8	38



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# Treasurer's Report

**Gwen McMillin**

# Highlights

- Current assets: \$1,121,607
- Major source of income from the TDM journal royalties
- Annual surplus income has varied from \$50,000-\$100,000
- Changes in how Congresses are managed has been successful
  - Annual frequency starting 2017
  - Seed money \$50,000 per Congress, started for 2015 Congress
  - After event, organizers refund seed money and split profits
  - Site visit by President and President-elect ~1 yr prior to event, started for 2017 Congress

# Overview of Revenue

	YTD Oct 2016	YTD Dec 2015	YTD Dec 2014
Membership Fees	\$38,322	\$43,924	\$34,987
Journal Royalty	\$0	\$236,501	\$244,391
Awards Revenue	\$3,334	\$6,333	\$3,333
Travelling Lectureship Sponsorship	\$0	\$0	\$3,000
Congress Surplus	\$79,457	\$0	\$11,736
Investment and Bank Interest	\$0	\$0	\$302
Sundry Revenue	\$0	\$0	\$115
<b>TOTAL REVENUE</b>	<b>\$121,113</b>	<b>\$286,758</b>	<b>\$297,864</b>

# Overview of Expenses

	YTD Oct 2016	YTD Dec 2015	YTD Dec 2014
Administration	\$17,494	\$28,892	\$29,068
Regional Meetings	\$2,988	\$1,453	\$14,944
MEMBERSHIP SERVICES			
Website	\$5,500	\$5,537	\$5,717
Podcasts	\$0	\$0	\$0
IATDMCT Compass	\$16,371	\$15,729	\$15,612
Member Recognition	\$0	\$2,760	\$0
Award Winners	\$0	\$11,107	\$1,629
International Travel Grant	\$0	\$2,062	\$0
YS Exchange	\$3,375	\$2,425	\$0
TDM Editorial Support/Royalty	\$66,202	\$82,033	\$102,139
TDM & Online Subscriptions Paid	\$25,650	\$29,450	\$30,806
<b>TOTAL EXPENSES</b>	<b>\$160,751</b>	<b>\$219,967</b>	<b>\$244,077</b>

# Investments to make?

- Increased support for TDM Editorial Board
  - Staff transitions
  - Professional editing of manuscripts
- Increased administrative support needed
- Open to proposals for support of activities that are consistent with the mission of our organization



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# Past President's Report

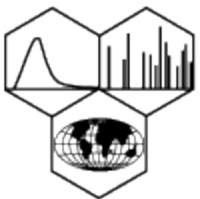
**Pierre Wallemacq**



# Past President's Report

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- Nomination for IATDMCT awards must be received by March 31 2017
  - Irving Sunshine award: outstanding contribution to clinical toxicology (Thermo Sc)
  - Charles Pippenger award: outstanding contribution to TDM (Siemens Healthcare)
  - Victor Armstrong Young investigator award (< 40 yr on Feb 2017) (Lippincott Williams & Wilkins)
- Submissions of nominations to IATDMCT business office
  - Together with CV (list of publications) and a letter from the nominator containing an evaluation and appraisal of the nominee for the award. Additional letters of support by members of the Association or other respected scientists are helpful for the Selection Committee
- Presentation of the awards during the opening ceremonies in Kyoto





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## Directors of Education

**Merce Brunet**

Hospital Clínic Barcelona, Spain

**Katharina Rentsch**

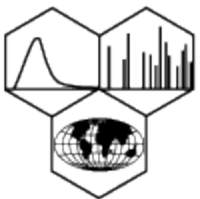
University Hospital Basel, Basel, Switzerland

**Maria Shipkova**

Klinikum-Stuttgart, Stuttgart, Germany

# Directors of Education (Report Mercè Brunet)

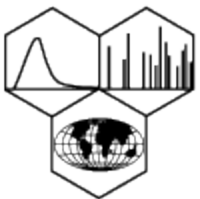
- Preparation and submission of the 1<sup>st</sup> Consensus Document for promising biomarkers: *Barcelona Consensus on Biomarker-Based Immunosuppressive Drugs Management in Solid Organ Transplantation*. Ther Drug Monit 2016. Coordination: Mercè Brunet and Michael Oellerich, active participation of 15 members of the BWG of Scientific Committee of IDs.
- Coordinator of the Special Issue named *First Consensus Document for promising biomarkers of immunosuppression in clinical transplantation: methods standardization and validation*. This includes 9 single **Review Articles** covering specific relevant biomarkers, summarized in the 1<sup>st</sup> Consensus Document, as parts of a Special Issue of *Therapeutic Drug Monitoring 2016*. Guest Editors: Mercè Brunet and Pierre Wallemacq; Editor in Chief: Michael Oellerich. Coordination: Mercè Brunet and Pierre Wallemacq
- Coordination of the posts on the IATDMCT website (June & July 2016) of lectures and summaries from the IV Symposium on Biomarkers of Immunosuppression and Clinical Outcome in Transplantation: New Approaches on TDM of Immunosuppressive Drugs. In collaboration with Maria shipkova.
- 15th IATDMCT Congress, Kyoto 2017. Two proposals of the ISDs committee with topics to be included in specific Symposiums, such as biomarkers in transplantation and new approaches in TDM, in the scientific program. Coordinators: Dennis Hesselink & Mercè Brunet.
- Promotion of the Biomarkers Consensus Document, published in April 2016 in *Ther Drug Monit*, at 2 meetings in Spain (Congress of the Spanish Transplant Society, Santander May 2016, and GREAT Toledo June 2016).
- Scientific Organizing Committee: X Congress of the Spanish Human Genetic Society and Spanish Society of Pharmacogenetics and Pharmacogenomics, Madrid April 2017



# Directors of Education (Report Katharina Rentsch)

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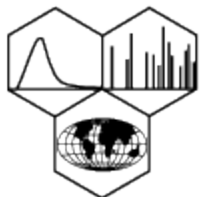
- Publication of a review article on state of the art use of LC-MS in toxicology (“Knowing the unknown – state of the art of LC-MS in toxicology”, Trends in Analytical Chemistry);
- Publication of an article for Compass 4/16 on the role of LC-MS in the clinical toxicological laboratory;
- Talk at a the Analytica meeting in Munich, Germany on the role of LC-MS in clinical toxicology;
- Talk at the annual meeting of laboratory medicine and clinical chemistry in Salzburg, Austria on LC-MS in clinical toxicology – options and constraints (in collaboration with Dr. Christoph Seger);
- Proposal for an educational roundtable discussion on the safe use of LC-MS in clinical toxicology for the meeting in Kyoto;
- Local activities in Switzerland to attract students for a PhD in clinical toxicology;
- Supervisor of 2 PhD students who are performing their thesis in clinical toxicology;



# Directors of Education (Report Maria Shipkova)

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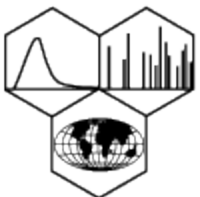
- Invitation letter to the SCs requesting their contribution for the Resources area;
- Start of the development (filling) of the Resources area in February and continuous announcements of new content;
- Accreditations for educational materials (update);
- Coordination of the collaboration with Turkish colleagues regarding the organization of the IATDMCT regional meeting in Turkey in May 2016, recording of the IATDMCT presentations;
- Collaboration with EFLM to record the lectures presented at the IATDMCT symposium during the EFLM/UEMS Congress in September 2016 in Warsaw. The meeting was organized by the ISD Committee and CC member Eberhard Wieland. Reimbursement by IATDMCT;
- Promotion of the Everolimus Consensus Document and the ISDs-SC Recommendations about the Analytics of ISD (both published in March 2016 in *Ther Drug Monit*) at 2 meetings in Germany (Analytica in Munich, and LC-MS/MS meeting in Banz in collaboration with Dr. Christoph Seger).
- 15th IATDMCT Congress, Kyoto 2017. Proposal for a plenary lecture, 2 symposia and a round table (partly in collaboration with the ISDs SC)



# Accreditation of IATDMCT Meetings

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- Office is looking into accrediting live Congress and podcasts for MDs, PhDs, and DPharms
  - Some progress has been made, for example the office can have podcasts accredited in Canada for CME section 2 credits provided a quiz is given after the podcast
  - CME Category 1 credits for live congress: American Medical Association has mutual recognition agreements with Canada and with European Union of Medical Specialties (UEMS)
  - More work is underway by office staff to determine specific requirements for accreditation in each country – members are encouraged to provide information about their own country's requirements





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# Alternative Sampling Strategy Committee

**Jan-Willem Alffenaar, PhD, PharmD, Clinical Pharmacologist (Chair)**

University Medical Center Groningen

University of Groningen, Groningen, The Netherlands

**Christophe Stove, PhD (Vice-Chair)**

Laboratory of Toxicology, Department of Bioanalysis, Faculty of Pharmaceutical Sciences, Ghent University, Ghent, Belgium

# Committee Membership

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- **Current Members**

- Jan-Willem Alffenaar
- Christophe Stove
- Yngve Berqvist
- Michael Boettcher
- Begoña Delgado-Charro
- Pleasant Hooper
- Brian Keevil
- Rafael Linden
- Jan Gerard Maring
- Roland Meesters

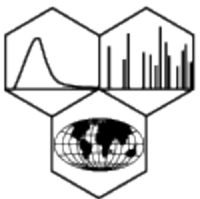
- Leo Stolk

- **New Members**

- Birgit Koch
- Constantinos Pistos
- Remco Koster
- Otto Halmingh

- **Past Members**

- Bert Ooms (retired)



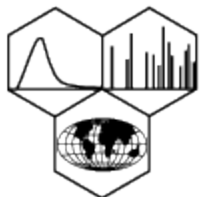


# Activities

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## ■ DBS Guideline

- This guideline defines key elements necessary for the validation of dried blood spot analysis.
- Guidance and criteria are given on the application of these validated methods in the routine analysis of
  - non-regulatory study samples from animal and human studies
  - samples from routine TDM.

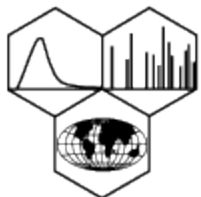


# Activities

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## DBS Guideline – Analytical Validation

- Selectivity
- Accuracy
- Precision
- Lower & upper level of limit of quantification
- Calibration curve
- Carry-over
- Dilution integrity
- Matrix effect & recovery
- Internal standard
- Stability
- Incurred samples (partial spot; only for 1, 3 mm)
- Cross validation (difference punch size)
- Hematocrit effect
- Effect of spotted volume
- Effect of anticoagulants

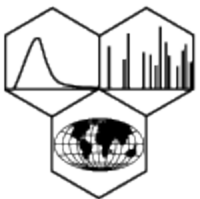


# Activities

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## DBS Guideline – Clinical Validation

- Number of samples
- Number of patients
- Calibration range
- Hematocrit range
- Incurred sample reanalysis
- Contamination
- Correct sampling
- Materials to be collected from the patients
  - capillary DBS
  - venous DBS
  - blood and plasma
- Effect of anticoagulants



# Activities

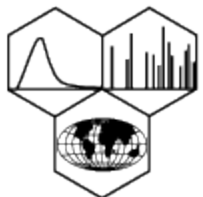
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## Who are involved:

- Analytical
- Capiau
- Stove
- Linden
- Pistos
- Koster
- Stolk
- Koch
- Clinical
- Veenhof
- Touw
- Alffenaar
- Linden
- Stolk
- Koch
- Review
- Keevil
- Boettcher
- Bergqvist

Capiau; PhD student of Stove

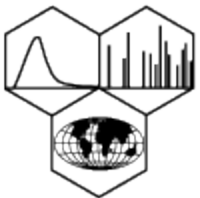
Veenhof; PhD student of Alffenaar and Touw



# Activities

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- Presentation of the guideline at IATDMCT Congress in Kyoto Japan.
- Submit to TDM journal for publication

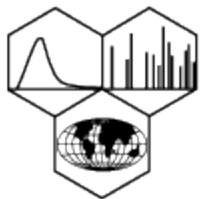


# Publications

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## ■ Compass

- March edition: “Implementing Dried Blood Spot sampling in clinical practice” by Veenhof, Alffenaar and Touw.
- March edition: “Non- contact hematocrit prediction of dried blood spots” by Capiou, Wilk, Aalders and Stove
- March edition: “new sampling strategies in toxicology and TDM” by Stove
- June edition: “DBS Analysis” by Berm and Maring

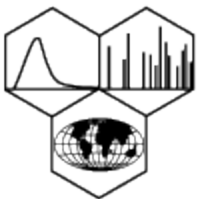


# Publications

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## ■ Compass

- December edition: “Accurate plasma concentrations from dried blood spots measurements: the search for the Grail” by Linden, Hahn, Schneider, Pettefi, Andriguetti, Müller, da Silva, Charão and Antunes



# Publications

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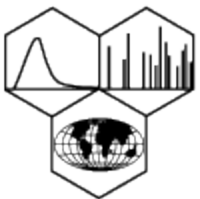
- Textbook chapter

- “Alternative Sampling Strategies for TDM” (contribution by o.a. Stove and Alffenaar) in “Clinical Challenges in TDM” edited by Clarke & Dasgupta

- Textbook

- “New sampling strategies in toxicology and TDM” edited and written by Stove

- Peer reviewed papers: > 30







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# Anti-Infective Committee Report

**Michael Neely, MD, MSc, FCP (Chair)**

Children's Hospital Los Angeles

University of Southern California, Los Angeles, USA

**Debbie Marriott, MB BS, BSc Med, FRACP, FRCPA, MASM (Vice-Chair)**

St. Vincent's Hospital, Darlinghurst, New South Wales, Australia

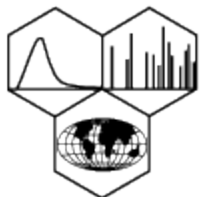
**Jan-Willem Alffenaar, PhD, PharmD (Past Chair)**

University Medical Center Groningen (UMCG), Groningen, Netherlands

# Committee Membership (confirmed)

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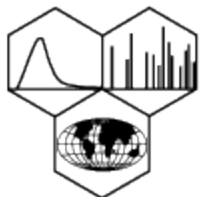
- Jan-Willem Alffenaar
- Eliane Billaud
- Roger Brüggemann
- David Burger
- Dario Cattaneo
- Erik Eliasson
- William Hope
- Ken Kasper
- Sandrine Lefeuvré
- Rafael Linden
- Debbie Marriott
- Mariadelfina Molinaro
- Carsten Müller
- Michael Neely
- Charles Peloquin
- Natella Rakhmanina
- Mario Regazzi
- Jason Roberts
- Andreas von Ameln-Mayerhofer



# Activities

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- TDM of anti-bacterial medications
  - All day symposium “Vancomycin: everything old is new again”, IATDMCT endorsed, St. Vincent’s Hospital, Sydney, Australia, 18 Oct, 2016 (Marriott, Neely)
  - 2.5 day workshop “Population Modelling and Dose Optimization: Pmetrics/BestDose Workshop”, IATDMCT endorsed, University of Queensland, Brisbane, Australia, 13-15 Oct, 2016 (Roberts, Neely, Hope)

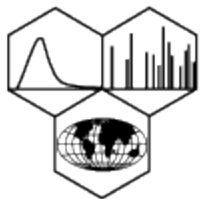


# Activities

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## ■ TDM of anti-tuberculous medications

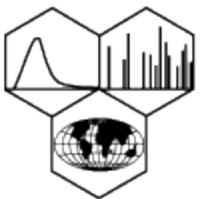
- 9th Int workshop on Clin. Pharmacology of TB Drugs, Liverpool, UK, 24 Oct 2016 (Peloquin, Alffenaar)
- European Advanced Course in Clinical Tuberculosis, Helsinki, Finland, 19-21 Sept 2016 (Alffenaar)
- Addressing and understanding drug-resistant tuberculosis, Stockholm, Sweden, 22 Sept 2016 (Alffenaar)



# Activities

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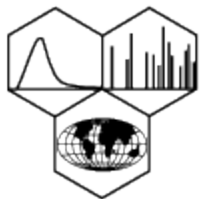
- TDM of anti-tuberculous medications (cont'd)
  - New Advancement of TB Control and Prevention, Chengdu, China 22 Nov 2016 (Alffenaar)
  - TDM of tuberculosis member survey, IATDMCT, Nov-Dec, 2016 (Alffenaar)



# Activities

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- TDM of anti-fungal medications
  - Northern Antifungal Symposium, Groningen, the Netherlands, 16 Nov 2016 (Alffenaar)
- 2016 IATDMCT Asia & Pacific Regional Meeting
  - Guangzhou, China August 15-17<sup>th</sup> (co-instigated by Marriott and Tanigawara, both speakers)
- The 6<sup>th</sup> Annual National Conference on Therapeutic Drug Monitoring
  - Nanjing, China September 22-24 (Marriott)



# Publications

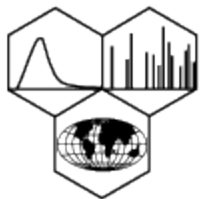
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- Textbook

- “Individualized Drug Therapy – Basic Techniques, Relevant Software, and Clinical Applications” (edited by Roger Jelliffe and Michael Neely), published Dec 1, 2016

- Peer reviewed manuscripts related to TDM and/or CT of antimicrobials: >300

- Compass articles: 4





International Association of Therapeutic Drug Monitoring Annual General Assembly | December 13, 2016

# Clinical Toxicology/Drugs of Abuse Committee

**Chair**

**Professor Vanessa Steenkamp**

University of Pretoria, South Africa

**Vice Chair**

**Professor Manuela Neuman**

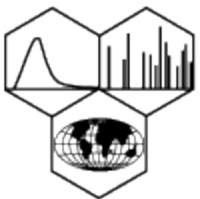
University of Toronto, Canada



# Background/Purpose of the Committee

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- To promote and advance the discipline of Clinical Toxicology within the Association by:
- Developing relevant practice guidelines, when appropriate, in particular fields of clinical toxicology and drugs of abuse testing;
- Publishing articles and other professional notes in the field of clinical toxicology and drugs of abuse in the Newsletter and on the web page;
- Assist in the holding of specialist workshops and symposia at the biennial Association meetings;
- Developing links and partnerships with other relevant professional societies; and
- Attracting new members to the Association with interests in clinical toxicology and drugs of abuse.

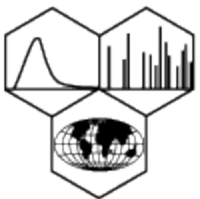


# Links with other Professional Associations

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Dr Neuman on behalf of the Committee promoted the discipline by developing partnerships with other professional societies and holding symposia including:

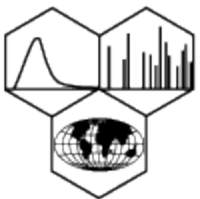
1. Canadian Society for Clinical Chemistry (Annual Meeting, Edmonton, Alberta, Canada) – Organizer & Presenter - Symposium: *Cannabis*
2. American Society for the Research on Alcoholism (Annual Meeting, New Orleans , LU, USA),- Organizer & Presenter - Symposium: *Alcohol and the Liver*
3. Canadian Association of Pharmaceutical Sciences, (Richmond, B.C., Canada) – Presenter - Symposium: *Cannabis*
4. European and International Society for the Biological Research on Alcoholism (Annual and Biannual Meeting, Berlin, Germany) Organizer & Presenter - Symposium: *Alcoholic and Non-Alcoholic Hepatitis*



# Activities since last meeting

---

- **Contributions to Compass 2016**
  - **Neuman:** Alcohol and liver damage.
  - **Sturkenboom/Touw:** An unusual ca(u)se of hypoglycaemia.
  - **Huestis/Jortani/Verstraete:** Report on the 16<sup>th</sup> National Turkish Clinical Biochemistry Congress, Turkey.
  - **Neuwman:** Medical Cannabis use and misuse, industry and clinical toxicology views.
  - **Rentsch:** The role of LC-MS in the clinical toxicology laboratory.

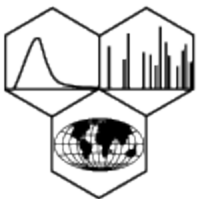


# Current Activities

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Preparing symposia, workshops, roundtables for 15<sup>th</sup> International Congress of Therapeutic Drug Monitoring & Clinical Toxicology, Kyoto, Japan

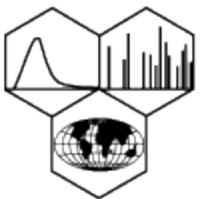
- Medical Cannabis: The role and liability of TDMCT - M. Neuman & V. Steenkamp
- Alcohol interactions – M. Neuman
- Alternative matrices for DOA testing – V. Steenkamp
- Drug-herb interactions and its interferences in TDM – A. Dasgupta
- High-resolution mass spectrometry - Where do we stand today in clinical and forensic toxicology ? – H. Maurer
- Neonatal drug testing on meconium – G. McMillin



# Members - other

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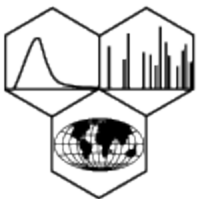
- Dr Frank Peters, Institute of Forensic Medicine, Friedrich Schiller University of Jena
- Dr Gwendolyn McMillin, Associated Regional and University Pathologists Laboratories, Salt Lake City
- Dr Manuela Neuman, University of Toronto, Canada
- Dr Amanda Jenkins, University of Massachusetts, MA
- Dr Pascal Kintz, Laboratoire ChemTox, France
- Professor Alain Verstraete, Ghent University Hospital, Ghent
- Professor Daan Touw , University Medical Center Groningen, Netherlands
- Professor Dr Olaf Drummer, Monash University, Australia
- Professor Kamisha Johnson-Davis, University of Utah, Salt Lake City



# Members - other

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- Professor Dr. Marilyn A. Huestis, NIDA, Baltimore
- Professor Saeed A. Jortani, Department of Pathology and Laboratory Medicine, University of Louisville
- Professor Dr. Tai C. Kwong, Department of Pathology, University of Rochester Medical Center
- Professor Dr. Hans H. Maurer, Institute of Pharmacology and Toxicology, University of Saarland
- Professor Dr. Katharina Rentsch, Universitätsspital Basel, Klinische Chemie, Basel
- Professor Dr. Alain Verstraete, Ghent University hospital, Gent
- Dr. John F. Wilson, Cardiff Bioanalytical Services Ltd , Wales, UK
- Professor Dr. Steven Wong, Wake Forest University School of Medicine, Winston-Salem NC
- Professor Loralie Langman, Toxicology and Drug Monitoring Laboratory, Mayo Clinic, Rochester



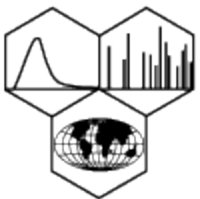
# Members - other

---

- Professor Shusen Sun, Western New England University, Springfield, MA
- Professor Eric Franssen, Clinical Pharmacy, amsterdam, Netherlands
- Dr Marieke Sturkenboom, University Medical Center Groningen, The Netherlands

## New Member

- Professor Constantines Pistos, West Chester University, PA, USA





International Association of Therapeutic Drug Monitoring Annual General Assembly | December 13, 2016

# TDM in Oncology

**Chair**

**Yusuke Tanigawara**

Keio University School of Medicine, Tokyo, Japan

**Vice Chair**

**William Clarke**

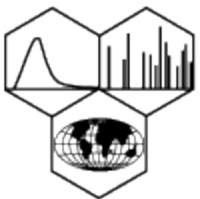
John Hopkins School of Medicine, Baltimore, USA



# Committee Members (2015 - 2017)

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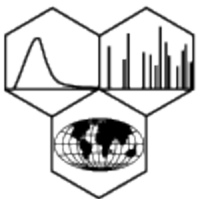
- Chair: Yusuke Tanigawara  
(Keio University School of Medicine, Japan)
- Vice-Chair: William Clarke  
(Johns Hopkins University School of Medicine, USA)
- Jennifer Martin (Australia), Ron Mathijssen (Netherlands)
- Markus Joerger (Switzerland), Edward Chu (USA)
- Erik van Maarseveen (Netherlands), Etienne Chatelut (France)
- Jan Beumer (USA), Yuichi Ando (Japan)
- Sal Salamone (USA), Alan Fotoohi (Sweden)



# Scope of the Oncology Committee

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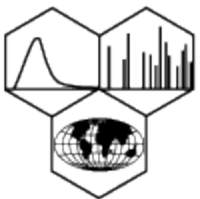
- TDM for cancer treatment in hematology and oncology,
- Chemotherapy, molecular targeting therapy, hormonal therapy and immunotherapy,
- Topics relating to drug concentrations in blood, pharmacogenomics and other biomarkers for the benefit of precision medicine.



# Activities of the Oncology Committee during 2016

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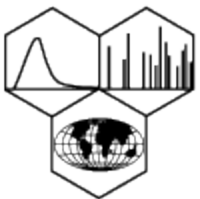
- TDM Guidance documents
  - 5-Fluorouracil (5-FU) in preparation
    - 1) Is there significant inter-individual variability in 5-FU plasma concentrations?
    - 2) Is there a narrow therapeutic window for 5-FU?
    - 3) Is there a documented relationship between drug exposure (measured via plasma concentration) and clinical outcomes?
    - 4) Is there evidence that TDM reduces variability in 5-FU exposure?
    - 5) Is there evidence that TDM improves clinical outcome?
    - 6) Is there a dose-adaptation strategy for 5-FU based on TDM measurements?
  - We hope to present the completed guideline at the 2017 IATDMCT Congress in Kyoto.



# Activities of the Oncology Committee during 2016

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- TDM Guidance documents
  - Imatinib in preparation
  - We hope to present a concept paper for the TDM of imatinib at the IATDMCT Congress in Kyoto.
- Proposals of 4 Symposia and 1 Plenary for the Kyoto Congress
- Contributed to *Compass, December 2016*





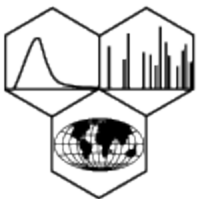
International Association of Therapeutic Drug Monitoring Annual General Assembly | December 13, 2016

# Pharmacometrics

# Pharmacometrics Committee

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- Activity
- F. Saint-Marcoux (Chair)
  - On behalf of the PM committee of the IATDMCT:
    - Organization of a symposium at the National Congress of the French Society of Pharmacology 2016 : « Modelling and clinical pharmacology »
    - Duphat Congress , Dubai, March 2016
      - Workshops
      - Lectures
    - National Congress of Nephro pharmacology, Stockholm, Sept 2016
      - Lecture



# Pharmacometrics Committee

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## ■ Other events on behalf of the Committee:

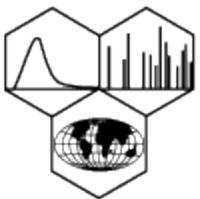
- Prof. M Neely: PMETRICS/bestdose Workshop. Brisbane, Australia, Oct 2016
- Dr. JB Woillard: PK Workshop. At Sains Medecine University (Kubang Kerian, Kelantan, Malaysia, March 2016

## ■ Compass activity

- Associate editor (F. Saint-Marcoux)
- Multiple contributions from the members

## ■ Kyoto 2017

- Proposal for a workshop
- Roundtables





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# Standards of Practice

**Phillip Morgan**

King's College Hospital, London UK

**Simon Handley**

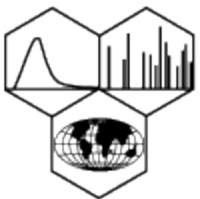
King's College Hospital, London UK



# Standards of Practice Committee

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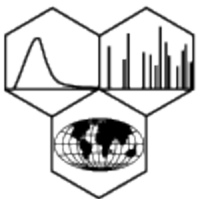
- IATDMCT 2015
  - 6 out of 8 proposals for symposia, roundtables or workshops accepted
  - New chair and vice-chair
- Articles contributed to Compass
  - Ion suppression - Ross Norris
  - Prevention & diagnosis of ADRs using pharmacogenomic testing - Manuela Neuman (March 2017)



# Standards of Practice Committee

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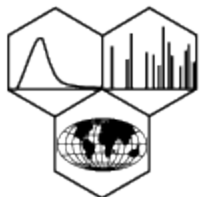
- In progress
  - IATDMCT 2017 proposals
  - Resource for IATDMCT website – reference list
- Future plans
  - Further contributions to the Resources section & Compass



# Standards of Practice Committee

- Members

Chair		
Morgan	Phillip E.	London, UK
Vice-chair		
Handley	Simon	London, UK
Members		
Surname	Forename	Location
Chusney	Gary	London, UK
Collier	Christine	Kingston, ON, Canada
Couchman	Lewis	London, UK
Grundmann	Milan	Ostrava, Czech Republic
Hiemke	Christoph	Mainz, Germany
Kwong	Tai	Rochester, NY, USA
LeGatt	Don	Edmonton, AB, Canada
Marquet	Pierre	Limoges, France
Martin	Jennifer	Waratah, Australia
McMullin	Matthew	William Grove, PA, USA
Neuman	Manuela	Toronto, ON, Canada
Norris	Ross	Sydney, NSW, Australia
Spencer	Edgar P.	Surrey, UK
Steenkamp	Vanessa	Pretoria, South Africa
Touw	Daan	The Netherlands





International Association of Therapeutic Drug Monitoring Annual General Assembly | December 13, 2016

# Young Scientist Committee (YSC)

**Markus R. Meyer (Chair)**

Saarland University

**Reinier van Hest (Vice-Chair)**

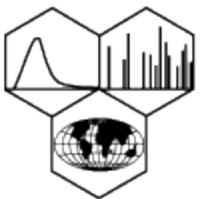
AMC

University of Amsterdam

# Report of the activities 2015-2016

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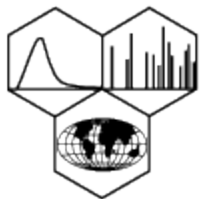
- Quarterly contributions to the Compass (YS Corner)
  - December 2015 “IATDMCT young scientist committee (YSC) report 2015” by Markus R. Meyer and Reinier van Hest
  - March 2016 “Meet The new young scientist committee members...” by Sarah Wille
  - June 2016 “Lethal toxicity of 5-fluorouracil: The urgent need for generalization of dihydropyrimidine deshydrogenase deficiency screening” by Fabienne Thomas
  - September 2016 “High-resolution mass spectrometry – Where do we stand today in clinical and forensic toxicology? A report of the GTFCh Symposium at the Analytica Conference, Munich, May, 2016” by Markus R. Meyer
  - December 2016 “Being Down Under at TIAFT 2016 - Australia brings together. A report from the TIAFT meeting in Brisbane, Australia” by Achim Caspar and Julian Michely



# IATDMCT YSC Activities 2015-2016

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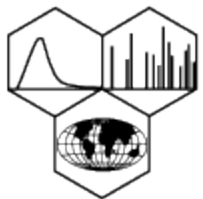
- New YSC Members recruited to cover more regions
  - Indy Sandaradura, University of New South Wales, Australia
  - Takehito Yamamoto, University of Tokyo, Japan
  - Lewis Couchman, King's College Hospital London, UK
  - Nicolas Picard, University Hospital Limoges, France
  - Sumith K Mathew , Christian Medical College Vellore, India



# IATDMCT YSC Activities 2015-2016

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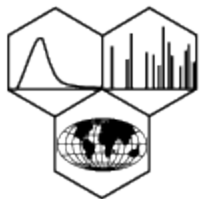
- Revised YS website (still in progress)
  - New „Science“ section with links to abstract of YSC members
  - Updated „YSC members“ section
  
- YSC members as part of the TDM editorial board
  - Reinier van Hest
  - Nicolas Picard



# IATDMCT YSC Activities 2015-2016

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- Proposal of joined symposium in Kyoto 2017
  - IATDMCT YS and JSTD M YS







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# Communications Committee (CC)

**Denise A McKeown (Chair)**  
Glasgow, UK



**Maria Shipkova (Vice-Chair)**  
Stuttgart, Germany

**Paula Schaiquevich**  
Buenos Aires, Argentina

**Nicolas Picard**  
Limoges, France

**Jana Stojanova**  
Chile, South America

**Edgar Spencer**  
England, UK

**Lewis Couchman**  
London, UK

**Violette Gijzen**  
Rotterdam, The Netherlands

**Frank Saint-Marcoux**  
Limoges, France

**Olga Milan Lopez**  
Barcelona, Spain

**Alain Verstraete**  
Gent, Belgium

**Eberhard Weiland**  
Stuttgart, Germany

**Ryuji Kato**  
Osaka, Japan

**Sarah Wille**  
Brussels, Belgium

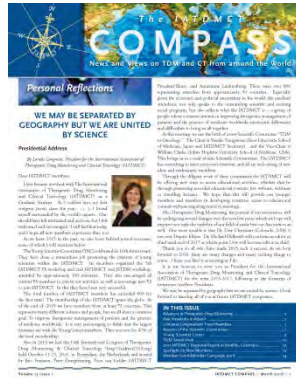
**IATDMCT Office**  
Kingston, On, Canada

**Ofelia Noceti**  
Uruguay

**Markus Meyer**  
Heidelberg, Germany

# IATDMCT Newsletter - The Compass 2016

■ New Compass team have done a fantastic job during 2016!



Associate Editor



Edgar Spencer  
England, UK



Editor-in-Chief



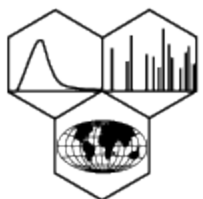
Paula Schaiquevich  
Buenos Aires, Argentina



Associate Editor



Franck Saint-Marcoux  
Limoges, France



# IATDMCT Social Media

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- **@IATDMCT on Twitter (2808 tweets, 626 followers)**  
Purpose: real time information on the latest topics  
Managers: Olga Milan, Jana Stojanova, Ryuji Kato, Nicolas Picard, Lewis Couchman
- **IATDMCT Group on LinkedIn (749 members)**  
Purpose: interactive scientific discussion  
Managers: Ofelia Noceti, Maria Shipkova, Ryuji Kato
- **IATDMCT Blog (monthly posts)**  
Purpose: on-line space to communicate to members and non-members  
Posts: interviews with IATDMCT members, news highlights  
Author: Jana Stojanova, Editors: Denise McKeown & Maria Shipkova
- **IATDMCT Facebook (successful first year)**  
Purpose: informal platform to communicate scientific news  
Manager: Violette Gijsen

**Thank you to all the new teams!**



# IATDMCT Activities Continued

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- **IATDMCT E-News (monthly)**

Purpose: Latest topics & news communicated via email to members

Topics: Office news, Congress updates, advertisements etc

Co-Editors: Denise A McKeown & Maria Shipkova

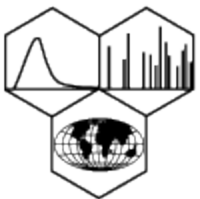
- **LWW TDM Journal Adverts (every issue)**

Purpose: free advertising space to promote IATDMCT

Adverts: Congress 2017, social media, website resources, scientific committees

Managers: Denise A McKeown & Maria Shipkova

**Thanks to Sue Burns at the Office for her  
tremendous support & excellent designs!**



# IATDMCT Calendar - Please Post Your Events



International Association of  
**Therapeutic Drug Monitoring and  
Clinical Toxicology**  
*Fostering education, research and practice in TDM and CT*

Contact Us | Logout

Search

Home | About Us | Members Only | Scientific Committees | Awards | **Events** | Contact Us

Event Name \*

IATDMCT Category \*  
Regional Meeting

Start Date(DD/MM/YYYY) \*

End Date(DD/MM/YYYY) \*

Brief Overview (500 chars left) \*

City \*

Country \*  
Afghanistan

Website URL \*

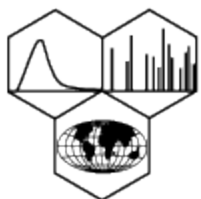
Event Logo - Maximum Size 10MB

Submitted by \*

Email Address \*

ReCaptcha

submit

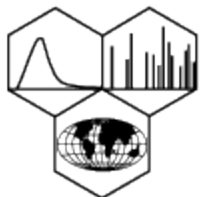


<https://www.iatdmct.org/events/events-calendar/month.calendar/2016/12/10/->.html

# IATDMCT Website - Resources Area

Thank you to:

- Maria Shipkova - tremendous amount of work obtaining excellent material
- Members/Speakers for providing material (webinars, presentations articles etc)
- IATDMCT Office for populating the material on the website & for their guidance
- Eberhard Weiland & the Office for researching possible accreditation of our e-materials  
- will hand over now to Eberhard for an update on this





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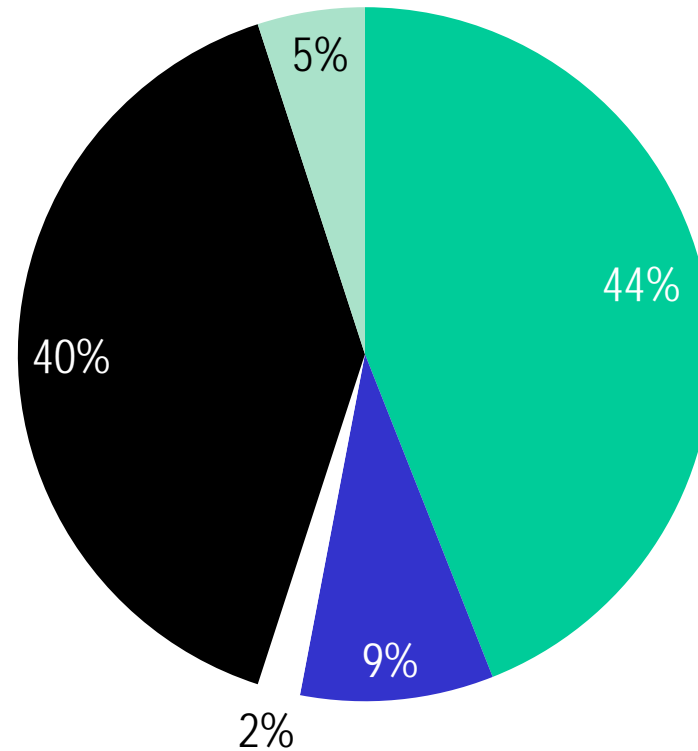
# TDM Journal Report

# TDM Journal Report- North America

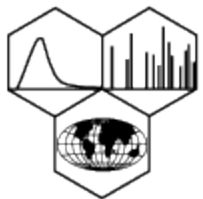
Manuscripts submitted:

2016: 44\*  
2015: 63  
2014: 48  
2013: 52  
2012: 84  
*\* as of December 1*

North American Editorial Office



- Original Articles : 19
- Short Communications: 4
- Letter to the Editor : 1
- Review Articles : 17
- Grand round Case Report: 3





# TDM Journal Report- North America

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## Acceptance Rates in 2016 (% of all manuscripts submitted)

- 26%: accepted
- 27%: rejected
- 39%: still pending
- 8%: not reviewed for various reasons (e.g. withdrawn)

## Top 5 Countries of Origin in 2016

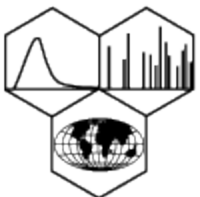
USA: 18

FRANCE: 7

BRAZIL: 4

BELGIUM: 4

NETHERLANDS: 3



# TDM Journal Report- North America

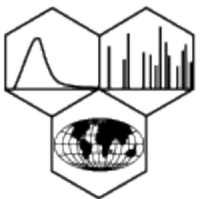
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## Turnaround Times:

- From submission to e-print: 16.5 weeks
- From acceptance to print: 27.0 weeks

## North American Backlog after Issue 38.6:

- 3 manuscripts





# 2016 European Office Editorial Report



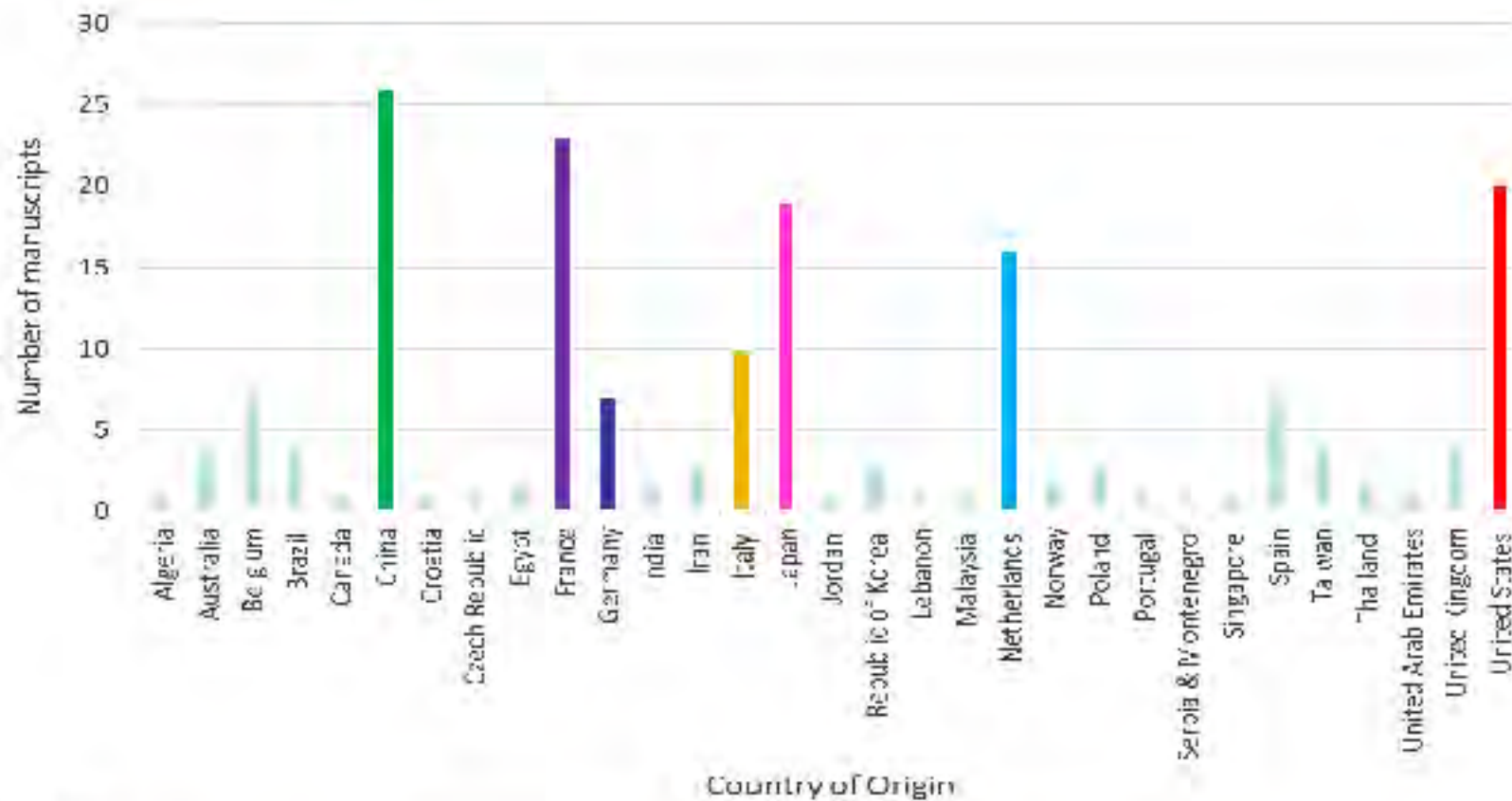
**Prof. Dr. med Dr. h.c. Michael Oellerich**  
FACB, FAMM, FFPATH (RCPI), FRCPath  
Editor-in-Chief

**Prof. Philip N. Patsalos, PhD, FRCPath**  
Associate Editor

**Hannah Hempstead**  
Managing Editor Europe  
Therapeutic Drug Monitoring



# All submitted manuscripts in 2016 by Country of Origin



76 % processed at the European Office



# TDM Journal Report

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## European Office Update

- Impact Factor:           2015 - 2.094  
                                  2014 – 2.376  
                                  2013 – 1.926
  
- Manuscript Inflow:   2016 – 129 papers (as of November 23, 2016,  
                                  estimation for 2016: ~140 papers)  
                                  2015 – 126 papers  
                                  2014 – 151 papers  
                                  2013 – 140 papers





# TDM Journal Report – European cont'd

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- In 2016, 129 manuscripts were submitted for review.\*

- 34 % were accepted

- 44 % were rejected (7% rapid rejection)

- 22 % are still pending \*as of November 23, 2016

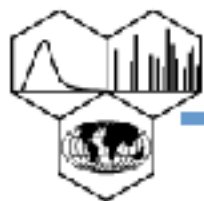
- The turnaround times are :

- The time from submission to published ahead of print: 19 weeks  
(ranging from 7 – 36 weeks)

- The time from acceptance to published ahead of print: 5 weeks (ranging from 1 – 17 weeks)

- The time from submission to print : 29 weeks (2015: 40 weeks) (ranging from 16 – 50 weeks)

- The time from acceptance to print : 13 weeks (2015: 21 weeks) (ranging from 4 – 18 weeks)



# Altmetrics

Altmetrics is a measure of online conversations around research to give measurement of impact and reach, quantifying the online attention to an article at non-traditional channels.

## Top TDM Articles in the last 12 Months



T cell cytokines as predictive markers of the risk of allograft rejection.  
**Therapeutic Drug Monitoring**



Barcelona Consensus on Biomarker-Based Immunosuppressive Drugs Management in Solid Organ Transplantation.  
**Therapeutic Drug Monitoring**



The effect of different carbapenem antibiotics (ertapenem, imipenem/cilastatin and meropenem) on serum valproic acid concentrations.  
**Therapeutic Drug Monitoring**



The toxicology of new psychoactive substances: Synthetic cathinones and phenethylamines.  
**Therapeutic Drug Monitoring**



Pharmacokinetic and pharmacodynamic evaluation of a nanotechnology-based formulation of lidocaine/prilocaine (Narcrap) in healthy volunteers.  
**Therapeutic Drug Monitoring**



Voriconazole therapeutic drug monitoring practices in the intensive care.  
**Therapeutic Drug Monitoring**



Subtherapeutic Posaconazole Exposure and Treatment Outcome in Patients With Invasive Fungal Disease.  
**Therapeutic Drug Monitoring**



Evaluation of Vancomycin Use in Late-Onset Neonatal Sepsis Using the Area Under the Concentration-Time Curve to the Minimum Inhibitory Concentration  $\times$  400 Target.  
**Therapeutic Drug Monitoring**



Pharmacokinetics and Long-Term Safety and Tolerability of Everolimus in Renal Transplant Recipients Converted From Cyclosporine.  
**Therapeutic Drug Monitoring**



Therapeutic Drug Monitoring of Everolimus: A Consensus Report.  
**Therapeutic Drug Monitoring**



Evaluation of Vancomycin Prediction Methods Based on Estimated Creatinine Clearance or Trough Levels.  
**Therapeutic Drug Monitoring**



Determination of colistin and colistimethate levels in human plasma and urine by high-performance liquid chromatography-tandem mass spectrometry.  
**Therapeutic Drug Monitoring**



# TDM Journal Report- Current Strategic Activities

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## **Administrative**

- Bylaws
- Consolidation of the European and North American Offices effective January 1, 2018

## **Business Development and Marketing**

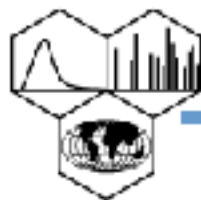
- Social media and internet strategy

Bylaws and written plans of the above will be circulated for review and comment by the Executive Committee before Kyoto meeting.

## **Scope of Journal**

- Extension of the scope to include “Precision Drug Therapy”

This and supporting initiatives (reviews, solicitation of original manuscripts, “focus issues”) to attract more attention in personalized medicine and biomarker communities will be discussed with the Editorial Board in Kyoto.







International Association of Therapeutic Drug Monitoring Annual General Assembly | December 13, 2016

# IATDMCT Congress 2017 in Kyoto

**Congress Chair**  
Yusuke Tanigawara



# 15th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology

KYOTO, JAPAN September 24-27, 2017



Home	Welcome Message	Abstracts	Accommodation	Business Meetings	Contact/Committee	Industry Workshops
Registration	Scientific Program	Social Program	Sponsors/Exhibitors	Useful Information	Young Scientists	Venue/Access
Information for Sponsors	Post-Congress Meetings					

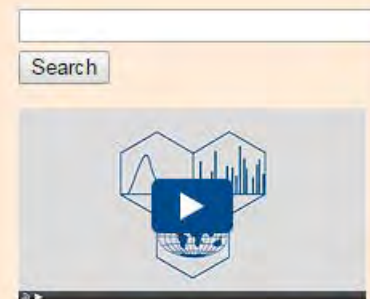
**Date** : September 24 (Sun)–27 (Wed), 2017  
**Post Congress Date** : September 28 (Thu), 2017  
**Venue** : Kyoto International Conference Center, Kyoto, Japan  
**Chair** : Professor Yusuke Tanigawara (Keio University School of Medicine)

<http://www.iatdmct2017.jp/>

050-3730-3977 (from inside Japan)

Email: [iatdmct2017@jtbcom.co.jp](mailto:iatdmct2017@jtbcom.co.jp)

**Web Page** : <http://www.iatdmct2017.jp>



Click here for the video of Kyoto.

#### Important Dates:

**October 18, 2016**  
Abstract Submission Open


**December 1, 2016**  
Registration Open  
Hotel Reservation Open

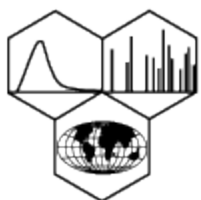
**February 28, 2017**  
Deadline Abstract Submission

**April 30, 2017**  
Notification Abstract/Poster  
Presentations

**June 30, 2017**  
Deadline Early Bird Registration

**August 31, 2017**  
Deadline Advanced Registration

 What's New







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## Abstract Guidelines

### Abstract submission for IATDMCT Congress 2017

- Abstracts must be written in English.
- Abstracts will be accepted for poster or oral presentation or can be rejected.
- Abstracts must be submitted electronically using the **Online Submission Form** at the bottom of this page.

### General Requirements:

The Scientific Program Committee invites the submission of abstracts on original work. Basically, abstracts can be submitted for consideration for a poster presentation. Some may be assigned as an oral presentation by the Committee. If you prefer a poster presentation only, please inform on the submission form. All successful abstracts will be published in the Congress App and will be published on the IATDMCT Congress website. Presenting authors must register before 31 May 2017.

Abstracts may be submitted on topics related to therapeutic drug monitoring and clinical toxicology. To be considered, each abstract must follow the required format outlined below. Additionally, each abstract must include sufficient data so that the reader can understand the study design, methods, results, and any conclusions that should be drawn from the study.

Non-members who wish to join IATDMCT or JSTDM can apply new membership. Please click the following URLs for details.

IATDMCT: <https://www.iatdmct.org/member-join>

JSTDM: <http://jstdm.umin.jp/about/tdmnyukai.html>

### Critical Dates:

- |                                |                  |
|--------------------------------|------------------|
| • Abstract Submission Open     | 18 October 2016  |
| • Abstract Submission Deadline | 28 February 2017 |
| • Presenter Notification       | 30 April 2017    |
| • Deadline Registration        | 31 May 2017      |

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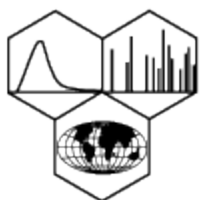
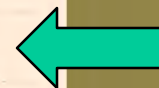
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KYOTO, JAPAN September 24-27, 2017



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## Registration

**Deadline for Early Bird Registration: June 30, 2017**  
**Deadline for Advanced Registration: August 31, 2017**

- \* After September 1, on-line registration is not available and please register on-site.
- \* All Deadlines are shown in Japan Standard Time = JST (UTC+9) and the registration closes at 23:59 JST (UTC+9).

### Congress Registration Fee (Currency: Japanese Yen (JPY))

Category	IATDMCT/JSTDM regular member	IATDMCT/JSTDM Young Scientist / Junior member*1	Student*2	Non-member*3
Early Bird Registration (Until June 30, 2017)	JPY60,000	JPY30,000	JPY30,000	JPY80,000
Advanced Registration (Until August 31, 2017)	JPY70,000	JPY35,000	JPY35,000	JPY90,000
On-site Registration	JPY80,000	JPY40,000	JPY40,000	JPY100,000

\*1 For registration as Young Scientists member (31-40 years of age) or Junior member (30 years of age and under), participant must be registered as a Young Scientist member or Junior member of IATDMCT or JSTDM. Young Scientist/Junior Member registration includes the same activity as the regular registration.

\*2 Student must be full time of under graduate or post graduate student, and need to submit additional 2 documents at the time of online registration as described below. So please prepare them before registration.

- 1) Student ID card with a photo.
- 2) Student registration certificate issued by the university written in English.

#### Student presentation grant (presenters only):

Students who wish to apply for the student presentation grant must meet the following requirements.

- 1) The applicant must be a student and submit an abstract as presenter.

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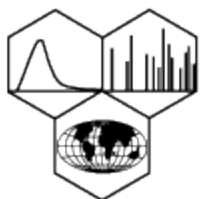
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**IATDMCT**  
International Association of





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## Venue/Access

### How to Access Kyoto

The nearest airports to come to Kyoto are Kansai International Airport (KIX) and Osaka Itami Airport (ITM). Osaka Itami is a domestic airport. Visitors can easily reach Kyoto by bus or train transportation from these two airports. Although KIX is an international airport, larger hub airports in Japan are Tokyo-Narita Airport (NRT) and Tokyo-Haneda Airport (HND). Many people may take a flight for Tokyo from their home country, and then take a domestic connection to KIX or ITM. The flight between Tokyo and KIX/ITM takes only 1 hour. Some visitors may stay in Tokyo or the other places for extra days just before or after the Congress. In such a case, High-speed train called "Shinkansen" offers a comfortable journey to come to Kyoto.



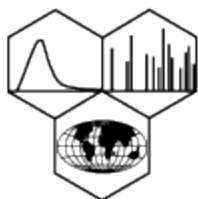



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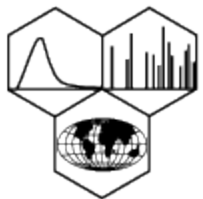
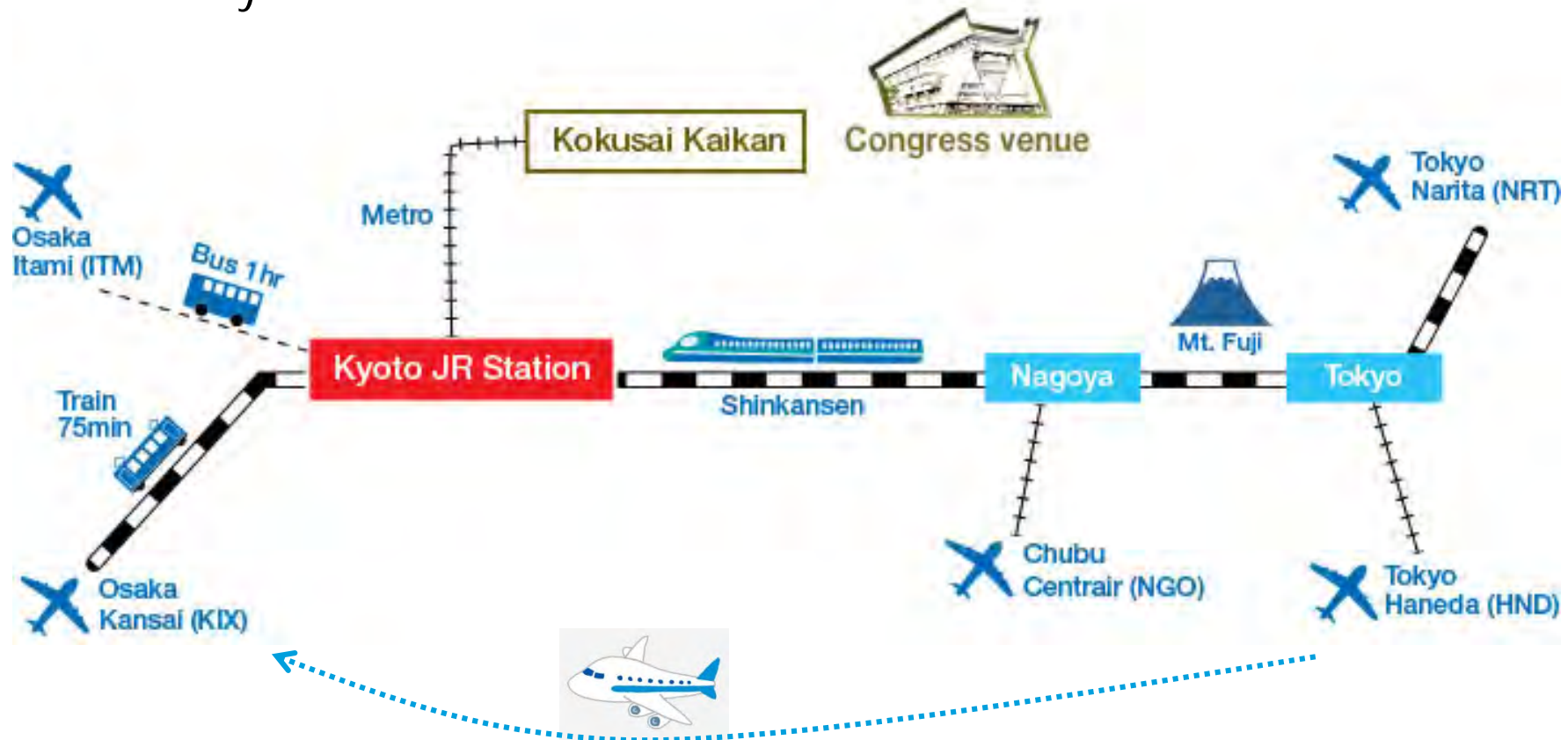
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# How to Access Kyoto and the Congress venue

The nearest airports to come to Kyoto are Kansai International Airport (KIX) and Osaka Itami Airport (ITM). Bus or train transportation is easy to come to Kyoto.





International Association of Therapeutic Drug Monitoring Annual General Assembly | December 13, 2016

## President's Thank you

It is my honour to serve you as President.

Thank you to all who have made 2016 such a success and I wish you all a healthy and prosperous 2017!