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Congratulations to Prof. Yusuke Tanigawara the PRESIDENT of the IATDMCT for his excellent work during this challenging year

It has been a year since Prof. Yusuke Tanigawara became IATDMCT President.

Achievements during 2020: Activities during this period was mostly restricted due to the COVID-19 pandemic. However, we accomplished several important achievements even during the difficult time.

The 18th IATDMCT Congress at Banff was successfully held as the first Virtual Congress by the efforts of the congress co-chairs and local organizers. We have started the official collaborations with American College of Clinical Pharmacology (ACCP) and International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) in 2020. In addition, IATDMCT continued to keep good relationships with Japanese Society of TDM, TDM Society in China, and Dubai International Conference. The best thing was that the internal activities such as Scientific committees and Communication committee have been quite high, and we look forward to exchanging our outcome at the next meeting opportunity.



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The 19th Congress of the International Association of Therapeutic Drug Monitoring & Clinical Toxicology Rome, Italy, September 19-23, 2021

Invitation to Rome Congress
Professors Mario Regazzi and Franco Locatelli

Dear friends and colleagues,

It is our privilege to invite you to participate in the 19th Congress of the International Association of Therapeutic Drug Monitoring & Clinical Toxicology (IATDMCT), which will take place **September 19-23, 2021** in **Rome, Italy**.

The Congress will present some of the latest and most innovative research in the intersecting areas of therapeutic drug monitoring, pharmacology, toxicology and their translational aspects. Next year's "*nobody is average*" congress theme signals the importance of individualized approaches to drug safety and efficacy.

The theme of the Congress was chosen with the aim of highlighting the value of quantitative integration of multisource data and knowledge of clinical, biomedical, biochemical, biological, engineering, statistical and mathematical concepts. This will result in continuous methodological and technological innovation in order to improve understanding and the impact not only on research, and development of therapies, but above all, on their utilization for individual patients.

The Organizing and Program Scientific Committees are already putting together an outstanding program for the 4-day meeting, ensuring a good balance between Therapeutic Drug Monitoring and Clinical Toxicology: 2 or 3 pre-congress sessions, 4 plenary lectures, 16 symposia (equally distributed between Toxicology and Pharmacology), various intersociety workshops, oral presentations, as well as breakfast roundtables and industry workshops.

The Congress will be held at the Angelicum Congress Centre, situated in the heart of Rome's city centre, a few minutes' walk away from the city's most visited sites, such as Piazza Venezia, Capitoline Hill, the Coliseum, and The Roman Forum.

I look forward to welcoming you all to Rome in 2021, to discuss science and exchange ideas!

<http://bit.ly/37p4Fpn>

Best regards,
Mario Regazzi and M. Regazzi for Franco Locatelli
(Chair and Co-chair of 19th IATDMCT Congress – Rome, Italy)

Don't miss the **Call for Abstracts** for the IATDMCT 2021 Congress in Rome! Visit our website for more information and news <https://iatdmct2021.org/call-for-abstract/>

The IATDMCT 2021 Organizing Secretariat is currently organizing the Congress. If you have any questions, please write to Constanza or Marilena at secretariat@iatdmct2021.org. They will be happy to help you with your visit to Rome.



*Mario and Yusuke drink to the success of the Rome Congress!!!
Photo: Prof. Alain Verstraete*

Stay up to date on Rome 2021 – Congress Website... | [Top](#)

The IATDMCT Family has a New Member!

Congratulations to Megan and her husband for the wonderful gift

Welcome Elizabeth Sophia (Ellie) Howes born November 16, 2020. Ellie is the 4th generation member of IATDMCT office.



4 Generations of IATDMCT staff! Megan Howes, Pamela Lyons, Ellie Howes, Elizabeth Hooper (and Daisy the office dog)

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Member-Get-A Member Campaign – 2020 Update

New Campaign Deadline: August 30, 2021

The top two "RECRUITERS" will receive free registration for the Rome Congress 2021!

Be active for IATDMCT, take part in the new campaign, and win the prize! Do not miss this excellent opportunity.

Visit the IATDMCT webpage for complete participation details!

[View the Website...](#) | [Top](#)

Time to Submit Your Membership Dues for 2021!

Enjoy all the valuable **Membership Benefits**, including online access to the *Therapeutic Drug Monitoring* (TDM) journal.

Pay online for 2 years (2021 and 2022) and obtain a **10% discount!**

If you have a Full Membership or a Young Scientist Membership, you can also qualify for the new **Affiliate Membership Discount**. The membership dues will be reduced by USD \$20 per year. (The Affiliate Membership Discount is currently available to Members of JSTDM only.) For more information about the Affiliate Membership Discount, please [visit here](#).



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News from the Communication Committee

We would like to inform the membership that advertisements for professional positions (PhD and Post-Doc job opportunities) in the field of TDM/CT, will be published in the E-news instead of on the IATDMCT website. Please e-mail the office with the advertisement for the position and it will be published in an upcoming monthly E-news. (IATDMCT office email: info@iatdmct.org)

Some of our members are currently conducting clinical tests for COVID-19 and/or trying to introduce new biomarkers to monitor recovery. Certainly it is our duty to continue also the routine work. Keep safe.

Below please find informative links about the current situation, which specifically addresses the rapid identification of COVID-19 cases as well as adverse reactions due to interaction of drugs:

- IATDMCT website provides a list of COVID-19 resources
 - <https://iatdmct.org/rss/7-news/556-covid-19-resources.html>

- Drugs used to treat COVID-19 that may interact with other medication
 - [Liverpool COVID-19 Interactions](#)
- Centre for Disease Control via NIH and Biosafety
 - <https://www.nih.gov/coronavirus>
 - <https://www.cdc.gov/coronavirus/2019-ncov/lab/biosafety-faqs.html>
- ASPX
 - <https://www.interactivehandbook.com/Compatibility.aspx>
- New England Journal of Medicine opened all articles regarding Covid-19
 - <https://t.co/fkKzCwma7t>
- McMaster University
 - <https://www.mcmasterforum.org/find-evidence/guide-to-covid-19-evidence-sources>
- Cochrane
 - <https://covidrapidreviews.cochrane.org/welcome>
- BC Centre for Disease Control
 - <http://www.bccdc.ca/health-info/diseases-conditions/covid-19>



[Visit the COVID-19 resources on the IATDMCT Website... | Top](#)

What is new about the exposome?

This month we highlight a recent Compass piece by Nicolas Venisse, written on behalf of the Toxicology and Environmental Health Committee. This relatively recent committee was founded in 2017 and has already achieved an important place in the Association. Nicolas writes about the exposome, a concept that is receiving increased attention due to recent technological advancements in analytical chemistry and data processing. Work in this area promises to shed light on the complex relationships between environmental factors and diseases.



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Published Ahead-Of-Print in *Therapeutic Drug Monitoring* – Latest Update

Stay ahead with the latest scientific research developments in the fields of TDM and CT!

The monthly *Therapeutic Drug Monitoring* Column provides you with the latest posts of ahead-of-print. Bringing to you articles posted online on December 15, 2020:

Original Articles:

- Development and validation of hematocrit level measurement in dried blood spots using Near-Infrared spectroscopy.
By van de Velde, Daan; van der Graaf, Jordy L.; Boussaidi, Mariam; Huisman, Ruud; Hesselink, Dennis A.; Russcher, Henk; Kooij-Egas, Annelies C.; van Maarseveen, Erik; de Winter, Brenda C.M.
- Quantitation of Tacrolimus in Human Whole Blood Samples Using the MITRA Microsampling Device.
By Undre, Nasrullah; Hussain, Imran; Meijer, John; Stanta, Johannes; Swan, Gordon; Dawson, Ian.
- Tacrolimus Bayesian dose adjustment in pediatric renal transplant recipients.
By Marquet, Pierre; Cros, Florine; Micallef, Ludovic; Jacqz-Aigrain, Evelyne; Woillard, Jean-Baptiste; Monchaud, Caroline; Saint-Marcoux, Franck; Debord, Jean.
- Relationship Between Amphetamine Concentrations in Saliva and Serum in Children and Adolescents With Attention-Deficit/Hyperactivity Disorder.
By Wolkittel, Christopher; Högger, Petra; Fekete, Stefanie; Romanos, Marcel; Gerlach, Manfred.
- Effectiveness Of Pharmacokinetic/Pharmacodynamic-Guided Meropenem Treatment in Critically Ill Patients: A Comparative Cohort Study.
By Aldaz, Azucena; Idoate Grijalba, Ana Isabel; Ortega, Ana; Aquerreta, Irene; Monedero, Pablo.
- A Quantitative Method for the Analysis of Ivacaftor, Hydroxymethyl Ivacaftor, Ivacaftor Carboxylate, Lumacaftor, and Tezacaftor in Plasma and Sputum Using LC-MS/MS and Its Clinical Applicability.
By Vonk, Steffie E.M.; van der Meer-Vos, Marloes; Bos, Lieuwe D.J.; Neerinx, Anne H.; Majoor, Christof J.; Maitland – van der Zee, Anke-Hilse; Mathôt, Ron A.A.; Kemper, E. Marleen.



- Development and validation of a simple and rapid UHPLC-MS/MS method for the quantification of hydroxychloroquine in plasma and blood samples in the emergency context of SARS-CoV-2 pandemic.
By Doudka, Natalia; Giocanti, Madeleine; Basso, Manon; Ugdonne, Renée; Barthelemy, Karine; Lacarelle, Bruno; Blin, Olivier; Solas, Caroline; Guilhaumou, Romain.
- Prednisolone and Prednisone Pharmacokinetics in Adult Renal Transplant Recipients.
By Skauby, Ragnhild Heier; Gustavsen, Marte Theie; Andersen, Anders M.; Bjerre, Anna; Åsberg, Anders; Midtvedt, Karsten; Vethe, Nils Tore; Bergan, Stein.
- Rapid Simultaneous Determination of Fourteen Antidepressants and Thirteen Antipsychotics in Human Plasma by Using High-performance Liquid Chromatography Tandem Mass Spectrometry with Dynamic Multiple Reaction Monitoring and Its Application to Therapeutic Drug Monitoring.
By Lyu, Haiyan; Chen, Binbin; Xu, Xiangzhen; Zhu, Chunyan; Ma, Chunling; Du, Yu; Liu, Farong; Wu, Caisheng.
- Relationship of Prolactin Concentrations to Steady-state Plasma Concentrations of Aripiprazole in Schizophrenia Patients.
By Tasaki, Minami; Yasui-Furukori, Norio; Kubo, Kazuyoshi; Yokoyama, Saaya; Shinozaki, Masataka; Sugawara, Norio; Inoue, Yoshimasa; Shimoda, Kazutaka.
- Validation of a Capillary Dry Blood Sample MITRA-Based Assay for the Quantitative Determination of Systemic Tacrolimus Concentrations in Transplant Recipients.
By Undre, Nasrullah; Dawson, Ian; Aluvihare, Varuna; Kamar, Nassim; Saliba, Faouzi; Torpey, Nicholas; Anaokar, Swapneel; Kazeem, Gbenga; Hussain, Imran.
- High Intra-Patient Variability in Tacrolimus Exposure Calculated over a Long Period Is Associated with De Novo Donor-Specific Antibody Development and/or Late Rejection in Thai Kidney Transplant Patients Receiving Concomitant CYP3A4/5 Inhibitors.
By Larpparisuth, Nuttasith; Pongnatcha, Tanapon; Panprom, Pera; Promraj, Ratchawat; Premasathian, Naline; Vongwiwatana, Attapong.
- Effects of CYP2D6 Genotypes on Venlafaxine Metabolism in Japanese Psychiatric Patients with Depression
By Komahashi-Sasaki, Hazuki; Yasui-Furukori, Norio; Sasaki, Taro; Shinozaki, Masataka; Hayashi, Yuki; Kato, Kazuko; Inoue, Yoshimasa; Tsuchimine, Shoko; Watanabe, Takashi; Sugawara, Norio; Shimoda, Kazutaka.
- The Hidden Cost of the Opioid Epidemic in the United States: Drug Screening in Insurance Claims
By Day-Storms, Jeremy J.; Kren, Erin M.; Bush, Jason; Souslova, Tatiana; Kerr, William; Baird, Geoffrey S.

Review Articles:

- Therapeutic Drug Monitoring of Long-Acting Injectable Antipsychotic Drugs.
By Schoretsanitis, Georgios; Baumann, Pierre; Conca, Andreas; Dietmaier, Otto; Giupponi, Giancarlo; Gründer, Gerhard; Hahn, Martina; Hart, Xenia; Havemann-Reinecke, Ursula; Hefner, Gudrun; Kuzin, Maxim; Mössner, Rainald; Piacentino, Daria; Steimer, Werner; Zernig, Gerald; Hiemke, Christoph.
- Impact of the Opioid Epidemic on Drug Testing.
By McMillin, Gwendolyn A.; Johnson-Davis, Kamisha L.; Kelly, Brian N.; Scott, Bonnie; Yang, Yifei K.
- Physician Perspective and Challenges Ordering/Interpreting Lab Tests Related to the Opioid Crisis in America.
By Zhu, Xiaoying; Bratanow, Nancy C.
- Evolving Role of Pharmacogenetic Biomarkers to Predict Drug-Induced Hematological Disorders.
By Pattanaik, Smita; Ahluwalia, Jasmina; Jain, Arihant.
- Abuse-Deterrent Opioid Formulations and the Opioid Crisis: A Pharmacist's Perspective.
By Gadd, Shannon; Cox, Nicholas; Samuelson, James; Kenney, Amy; Turner, Kyle; Cochran, Gerald.
- Microsampling Assays for Pharmacokinetic Analysis and Therapeutic Drug Monitoring of Antimicrobial Drugs in Children: A Critical Review.
By Moorthy, Ganesh S.; Vedar, Christina; Downes, Kevin J.; Fitzgerald, Julie C.; Scheetz, Marc H.; Zuppa, Athena F.
- Levamisole – A Toxic Adulterant in Illicit Drug Preparations: A Review.
By Midthun, Kari M.; Nelson, Lewis S.; Logan, Barry K.

Short Communications:

- Toxicology Screening Testing in Patients Undergoing Spine Surgery: A Prospective Observational Pilot Study.
By Clavijo, Claudia F.; Oliva, Anthony M.; Dingmann, Colleen; Kaizer, Alexander; Christians, Uwe; Burger, Evalina; Patel, Vikas; Kleck, Christopher J.; Vogel, Scott A.; Scott, Benjamin K.; Janik, Daniel J.; Jameson, Leslie C.; Ginde, Adit A.
- Plasma Concentrations and Safety of Lopinavir/ritonavir in COVID-19 Patients A Short Communication.
By Chouchana, Laurent; Boujaafar, Sana; Gana, Ines; Preta, Laure-Hélène; Regard, Lucile; Legendre, Paul; Azoulay, Celia; Canoui, Etienne; Zerbit, Jeremie; Carlier, Nicolas; Terrier, Benjamin; Kernéis, Solen; Batista, Rui; Treluyer, Jean-Marc; Zheng, Yi; Benaboud, Sihem.
- Do Vancomycin Pharmacokinetics Differ Between Obese and Non-obese Patients? Comparison of a General-purpose and Four Obesity-specific Pharmacokinetic Models.
By Colin, Pieter J.; Eleveld, Douglas J.; Hart, Andrew; Thomson, Alison H.

- Intravenous Infusion of Fentanyl Has No Effect on Blood Concentration of Tacrolimus In Patients Receiving Hematopoietic Stem Cell Transplantation.
By Ishiwata, Yasuyoshi; Nagata, Masashi; Kiuchi, Shota; Ippongi, Chika; Takeda, Hirofumi; Takahashi, Hiromitsu.

Letters to Editor:

- Factors affecting serum olanzapine concentration.
By Kawada, Tomoyuki.

Grand Rounds:

- Optimization of Aztreonam in Combination with Ceftazidime/Avibactam in a Cystic Fibrosis Patient with Chronic Stenotrophomonas maltophilia Pneumonia Using Therapeutic Drug Monitoring: A Case Study.
By Cowart, Mallory C.; Ferguson, Chelsea Lynn

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IATDMCT Events Calendar



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Co-editor: Ryuji Kato

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To allow our staff to enjoy the holiday break,
the IATDMCT office will be closed December 22
and will reopen on January 5.

HAPPY
Holidays



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