International Symposium on Trends in Radiopharmaceuticals (ISTR-2019)
28 October–1 November 2019, Vienna, Austria

	Monday 28-10-2019	Tuesday 29-10-2019	Wednesday 30-10-2019	Thursday 31-10-2019	Friday 1-11-2019
09:00 – 10:30	**Registration (8:00 -9:30)** **Opening Session (9:30 - 10:30)**	**S.4 Production of radiopharmaceuticals: Theranostic** 09:00 J. Lewis: Development and application of monoclonal antibody based radiopharmaceuticals 09:25 C. Decristoforo: Theranostic radiopharmacy 09:45 V. Gadelshin: Innovative medical radioisotopes for theranostic application, and how they are produced 10:00 B. Alirezapour: Preparation and preclinical evaluation of ^{64}Cu-NOTA-anti MUC1 as a radioimmunoconjugate for diagnosis of MUC1+ breast cancer by PET 10:15 L. Melendez-Alafort: Development of a new prostate cancer theranostic radiopharmaceutical	**S.7 Production of radiopharmaceuticals: PET** 09:00 P. Elsinga: Recent advances in the development of ^{18}F and ^{11}C radiopharmaceuticals 09:25 C. Decristoforo: Recent advances in the development of ^{68}Ga radiopharmaceuticals 09:45 I. Aljammaz: Synthesis and in vitro and in vivo evaluation of ^{124}I labelled PSMA peptides: Potential theranostic radiopharmaceuticals for prostate cancer 10:00 V. Kumar: A radiocopper somatostatin analog (Cu-Sartate) for NET theranostics 10:15 W. Chintawan: Comparative study of [^{18}F]PSMA-1007 and [^{68}Ga]PSMA-11 for prostate cancer PET imaging in Thailand	**Clinical advances in nuclear medicine** 09:00 D. Paez: IAEA activities related to nuclear medicine 09:30 H. Macapinlac: Recent advances in nuclear medicine: Diagnostic and therapy 10:00 D. Le: Production and use of cyclotron-produced radiopharmaceuticals at MD Anderson Cancer Center	**S.11 Production of alpha emitters and radiopharmaceuticals** 09:00 A. Morgenstern: Production and quality control of radiopharmaceuticals labelled with Actinium-225 and Bismuth-213 09:30 C. Cutler: U.S. DOE Tri lab production effort to provide accelerator produced ^{225}Ac 10:00 M. Lesinki: Recent results of the joint CNL and TRIUMF project on the production of Ac-225 10:15 O. Pozzi: Argentinian project for developing production of ^{225}Ac and ^{213}Bi in cyclotrons for targeted therapy	**Technical cooperation success stories** 09:00 D. Yang: Opening Remarks by Deputy Director General, Head of the Department of Technical Cooperation 09:10 S. Abdulrazak: Technical cooperation programme: enhancing capacities in radiopharmacy in Africa 09:30 R. Leyva Montaña: Sustainable production of ^{99m}Tc generators and radiopharmaceuticals an IAEA/Cuban experience 10:00 Y. Chakrova: Gel generator production project in Kazakhstan: IAEA support 10:15 A. Duran: Strengthening capacities for the development of radiotracers labelled with ^{18}F, different from fluordesoxyglucose in the FCDN	**S.15 Education in radiopharmacy** 09:00 P. Elsinga: Development and performance of a radiopharmacy platform certification, EANM experience 09:20 A. Rey: Education and qualification of radiopharmacists in Latin America 09:40 N. Bentaleb: Master's degree in radiopharmaceutical sciences: step forward to enhance regional capacities in nuclear medicine in Africa 10:00 E. Janevik-Ivanovska: Developing, testing and installing e-learning system for radiopharmacy as a tool to harmonize education in developing country 10:15 P. Wieland: The World Nuclear University's 7 approaches to enhance professional performance
1030-1100	**Morning Coffee Break**				
11:00-12:30	**S.1 Production of medical radioisotopes: Research Reactor** 11:00 M. Venkatesh: Production of reactor based radioisotopes: An international scenario 11:25 R. Mikolajczak: Production and supply of medical radioisotopes: A Polish experience 11:45 J.L. Crudo: Laboratory scale production of medium specific activity ^{177}Lu (carrier added) through the [^{176}Lu (n,γ) ^{177}Lu] nuclear reaction under standardized conditions 12:00 B. Ocampo-Garcia: Synthesis and neutron activation of Lu_2O_3 nanoparticles functionalized with target specific peptides 12:15 T. Tielens: Towards a robust supply chain for medical radioisotopes	**S.5 Production of radiopharmaceuticals: SPECT** 11:00 A. Duatti: Revisiting ^{99m}Tc radiopharmaceuticals with recent advances in chemistry & imaging tools 11:25 G. Ferro-Flores: Production of radiolabelled peptides for SPECT-based theranostics 11:45 S. Bouyoucef: Radiopharmacy and growth of nuclear medicine in developing countries 12:00 C. Bolzati: Selective avβ3 integrin detection using [^{99m}Tc(N)PNP43]-tagged RGDechi peptides: synthesis and pharmacological studies 12:15 E. Araujo Perini: The past, present and future trends in radiopharmaceuticals production in Brazil	**S.8 QA/QC/Pre-clinical** 11:00 S. Rubow: Quality control of hospital based radiopharmaceuticals 11:20 J. Smith: Development and preclinical evaluation of ^{64}Cu radiolabelled compounds 11:40 B. Guérin: Preclinical evaluation of ^{68}Ga-PET tracers using ^{68}Ga produced by cyclotron, a Canadian experience 12:00 E. Bombardieri: Ethics in animal experiments in nuclear medicine and the application of the directive 2010/63 EU 12:15 R. Teodoro: PET for the imaging of cerebral a7 acetylcholine receptors: from tracer development to clinical application	**S.12 Emerging radioisotopes for radiopharmacy** 11:00 V. Radchenko: Development of production strategies for new emerging research radionuclides using cyclotrons 11:25 M. Ávila Rodriguez: Emerging clinical applications of [^{64}Cu]$CuCl_2$ radiopharmaceutical 11:45 P. Martini: Towards large-scale ^{47}Cu cyclotron production 12:00 I. Cieszykowska: Production of ^{47}Sc from ^{47}Ca comparison of four separation methods 12:15 G. Pupillo: Accelerator-based production of ^{47}Sc: Results of the PASTA project	**WNU OLYMPIAD: FINALS**
12:30-14:00	**Lunch Break**	**Working Lunch: MiLabs (12:45 - 13:45)**	**Lunch Break (12:30-14:00)**		
14:00-15:30	**S.2 Production of medical radioisotopes: Accelerators** 14:00 S.M. Qaim: Accelerator based production of non-standard positron emitters and therapeutic radionuclides 14:25 S. Lapi: Production of radiometals using a 24 MeV cyclotron 14:45 A. Abrunhosa: Production of radiometals using liquid targets: status and perspectives 15:00 J. Hoon Park: Radioisotope production and development with 30MeV cyclotron 15:15 V. Radchenko: Production and application of ^{225}Ac/^{213}Bi: TRIUMF experience and perspectives	**Poster Session I**	**S.9 Health regulations: Production of radiopharmaceuticals** 14:00 S. Kopp: A move towards harmonization of GMP regulations in radiopharmacy 14:20 C. Decristoforo: The status of radiopharmaceutical regulations in Europe 14:40 S. Lyashchenko: The status of radiopharmaceutical regulations in the US 15:00 Y. Chakrova: GMP certification of radiopharmaceutical production facility in Kazakhstan 15:15 S. Nazarenko: Compounding radiopharmaceuticals: any regulatory difference with extemporaneous preparation?	**Poster Session II**	**Closing Session / Awards Ceremony**
15:30-16:00	**Coffee Break**				
16:00-17:30	**S.3 Production of medical radioisotopes: Generators** 16:00 J. Osso Junior: Role of the IAEA on the supply of ^{99}Mo 16:15 B. Grimshaw: Safeguards on the production of medical radioisotopes 16:30 C. Cutler: Supply of ^{99}Mo: Focus on US 16:55 B. Zhulkov: Radionuclide production at high energy accelerators: the new possibilities for radioisotope generators 17:15 R. Walczak: Cyclotron production of ^{47}Ca for ^{47}Ca/^{47}Sc generator	**S.6 Production of radiopharmaceuticals: Therapy** 16:00 M.R.A. Pillai: Production and quality control of bone pain palliation agents using b-emitters 16:25 J. R. Zeevaart: Comparison of promising new short range therapeutic radiopharmaceuticals using ^{225}Ac, ^{213}Bi and ^{161}Tb 16:45 V.Chirayil: Freeze-dried kit for quick and efficient preparation of ^{188}Re-DEDC/lipiodol in hospital radiopharmacy 17:00 C. H. Yeong: Production of Theranostic ^{153}Samarium-labelled Polystyrene Microspheres for Hepatic Radioembolization 17:15 A. Chakrabotry: Radiolabeling and pre-clinical evaluation of Y-90-DOTATATE - formulated using Y-90-acetate from high level liquid waste	**S.10 New trends in radiopharmaceuticals: Chemistry** 16:00 B. Guérin: Development and evaluation of chelators for specific radiometals 16:20 S. Lyashchenko: Novel radiopharmaceuticals for clinical translation 16:40 J. Smith: Translation of new chelators for old pairs: Tc/Re NODAGA, etc 17:00 K. Katti: Radioactive Gold ^{198}Au nanoparticles in nanomedicine 17:15 P. Brust: New strategies for imaging of brain cancer with radiopharmaceuticals	**S.13 Radiopharmacy installations** 16:00 A. Duatti: How to set up a medium size ^{99m}Tc generator facility: IAEA experience 16:25 V. Kumar: Design and successful operation of a SPECT hospital radiopharmacy 16:45 M.R.A Pillai: Cyclotron and PET radiopharmacy installation: experience in setting up in a commercial centre 17:00 U. Bhonsle: How to set up a PET radiopharmaceutical facility: IAEA experiences 17:15 K. Washiyama: An effort to diagnostic and therapeutic nuclear medicine at the Fukushima Medical University using two medical cyclotrons	
18:00-20:00	**Welcome reception (18:00 - 20:00) MOE**	**India: Side event**	**Women in Radiopharmaceutical Sciences: Challenges and opportunities**	**S.14 IAEA Databases and Apps (17:30-18:30)**	
	Board Room B/M1	**Boardroom M2**	**MO2**		