EUFEPS ANNUAL MEETING

"Lisbon 2023, at the edge of Europe and Science"



Abstracts Book

May 31st - June 2nd 2023
Lisbon, Portugal

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After a fruitful Annual Meeting together with the Dutch Medicine Days, EUFEPS is proud and happy to announce that the 2023 Annual Meeting will be held in Lisbon, Portugal between May 31 – June 2, 2023 in collaboration with the Conference Co-Chairs Prof. Dr. Maria Blanco-Prieto and Prof. Dr. João Lopes supported by the University of Lisbon and the Portuguese Pharmaceutical Sciences Society. The programme will include parallel tracks organized by EUFEPS Networks and Member Societies. The aim of the Annual meeting is to bring together people from all over the world who are involved in pharmaceutical sciences in order to exchange results, experiences, and information and to build communication and collaboration at regional and global scales.

The main target of the Annual Meeting 2023 is to create a pharmaceutical sciences platform shared by the universities, industry and regulatory scientists in order to provide an opportunity to discuss the main topics of this symposium in a friendly atmosphere in the attractive environment of Lisbon. This meeting will be focused on the theme "Lisbon 2023, at the edge of Europe and Science". The main track of the meeting will continue throughout the scientific programme on May 31 to June 2 covering basic and applied sciences on drug targets and drug formulation. As the concept of future medicines involves an extensive systems approach for both development and for pre-clinical and clinical evaluation, parallel tracks will be organized by networks and EUFEPS member institutions and societies to discuss different aspects. In short, we plan to hold this Annual meeting with six prominent plenary speakers, several invited session/short course speakers and short oral presentations selected from the abstracts submitted. We will also have a Round Table with different experts on the topic ""Emerging therapies: regulatory perspective". For the first time we will have a "European PhD student competition" to promote and reward academic and scientific excellence among the young. During the awards ceremony at the end of the conference, we will present the, EJPS Best Paper Award, Best Poster Award, EUFEPS WIPS Women in Pharmaceutical Sciences Award and EUFEPS Presidential Distinction Award.

We are eager to welcome in Lisbon scientists from academia, industry and regulatory authorities interested in the future of medicines and the role of pharmaceutical scientists, and to continue the tradition of the Pharmaceutical Sciences European meetings series in Hungary 2024 with a strong scientific programme. Looking forward to meet you in Lisbon on May 31 – June 2, 2023.

With our best regards,



Prof. Dr. Maria Blanco-Prieto
EUFEPS President



Prof. Dr. João Almeida Lopes
EUFEPS'23 Chairman

Radiolabeling and quality control studies of cefdinir solid dispersions with polyvinyl alcohol as possible infection and inflammation imaging agent

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Easy and early detection of infection and inflammation is essential for early and effective treatment. In this study, solid dispersions (SDs) of cefdinir (CEF) using polyvinyl alcohol (PVA) were prepared and radiolabeled with [^{99m}Tc]$NaTcO_4$ to develop potential radiotracers for detection of infection/inflammation. Radiolabeling efficiency and *in vitro* stability of [^{99m}Tc]Tc-CEF-SDs were determined using radioactive thin layer chromatography (RTLC). For the preparation of SDs, CEF (0.5 g) was suspended in methanol (50 mL). While mixing with magnetic stirrer, CEF suspension was added to polymer solution (0.5 g PVA in 50 mL distilled water) and the mixture was sonicated using probe sonicator (75% amplitude, 8 min). CEF-SDs were then refrigerated at -80°C and lyophilized to obtain a fine powder. [1] Then, the SDs solutions (1 mL) were radiolabeled with [^{99m}Tc]$NaTcO_4$ using stannous chloride (0.5 mg.mL^{-1} in distilled water) as the reducing agent. [2] Radiolabeling was performed with freshly eluted [^{99m}Tc]$NaTcO_4$ (37 MBq) in 0.9% sodium chloride solution (SF, 0.1 mL). The mixture was shaken for 30 s and then incubated for 15 min at 25°C. Next, the RTLC method was used to determine the radiolabeling efficiency. Aliquots (10 µL) of the radio-mixtures were applied to the origin of the ITLC-SG plates and dried at room temperature. The plates were then developed using appropriate solvent systems. Acetone was used to determine free-[^{99m}Tc]$NaTcO_4$, whereas SF was used to determine the radiocolloid. After development, the plates were dried and the radioactivity distribution was determined using a TLC scanner. Based on the obtained results, high radiolabeling efficiency was achieved for [^{99m}Tc]Tc-CEF-SDs (92%). To test the stability of [^{99m}Tc]Tc-CEF-SDs in SF, 0.1 mL of [^{99m}Tc]Tc-CEF-SDs was added to 0.4 mL of SF. The mixture was then incubated at 25°C for 6 h. The radiolabeling efficiency remained stable, with some insignificant changes for the [^{99m}Tc]Tc-CEF-SDs at 25°C for 6 h. In conclusion, the newly developed radiotracer ([^{99m}Tc]Tc-CEF-SDs) may be useful for further studies that are in progress to evaluate the bacterial binding capacity and biodistribution of the complex in experimental animals for detection of infection/inflammation.

Literature:

[1] Namlı İ, Güleç K, Öztürk AA. 8th International Drug Chemistry Cenference, Antalya, Türkiye, 2020.
[2] Ekinci M, Öztürk AA, Santos-Oliveira R, İlem-Öztürk D. The use of Lamivudine-loaded PLGA nanoparticles in the diagnosis of lung cancer: Preparation, characterization, radiolabeling with ^{99m}Tc and cell binding. Journal of Drug Delivery Science and Technology, 2022, 69, 103139.



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CERTIFICATE OF ATTENDANCE

The Organizing Committe certifies that

A. Alper Öztürk, Assoc. Prof. Dr.

Attended the European Federation for Pharmaceutical Sciences Annual Meeting (EUFEPS'23)

Lisbon, May 31st - June 2nd, 2023

MARIA BLANCO PRIETO
President of EUFEPS

JOÃO ALMEIDA LOPES
Chair of EUFEPS