Greetings

I am delighted to announce that we will be hosting the 46th Annual Meeting of the Japanese Environment Mutagen Society (JEMS) on November 6 and 7, 2017 at the Hitotsubashi Hall in Tokyo.

Modern society has received a great benefit from industrialization and developed progressively. On the other hand, because of advances in the use of chemicals in society, there are many chemical substances that threaten our lives. Damage to a wide variety of genes is one of these menaces. Currently, most of the possible carcinogens that adversely affect genomic DNA are eliminated with an established system that uses a combination of various genotoxicity assays (battery). It is no exaggeration to say that the history of JEMS Japan was truly representative of research for genomic damage, including mechanisms of DNA damage and establishment of assay systems to appropriately evaluate damage. Our approaches have been appreciated as regulatory science and contributed to the evaluation of pharmaceuticals, foods, agricultural chemicals, and chemical substances.

The theme of this meeting has been set as “Diversified and Sophisticated Genotoxicity Assessment; Its Role and Interpretation”. It is time to take a good look at the role and interpretation of diversifying and sophisticated genotoxicity evaluation. New assessment approaches with in vitro and in silico methods, as well as development of brand new mutation analysis technologies, have been astonishing. By contrast, I believe this is also a prime opportunity to focus our attention on in vivo genotoxicity assays, to sit back and discuss afresh about the importance of in vivo genotoxicity assays and their role in predicting human carcinogens, particularly in the context of extensive moves towards international animal protection.

As part of our discussions, we will hold a joint symposium with Safety Evaluation Forum "Significance of genotoxic evaluation in pharmaceutical development. -Requests from toxicologists-" (tentative title) and a panel discussion "Q&A for genotoxic evaluation from a viewpoint of pharmaceutical development." (tentative title).

A special session will be held on a mind-blowing article in Nature in June 2015. This article described a new mechanism of carcinogenesis which is induced by micronuclei, i.e., “Chromothripsis”, by DNA analysis of a single cell and live-cell imaging. We invited Dr. Alexander Spektor for his lecture on "Chromosome segregation errors and chromothripsis in cancer pathogenesis." This is the best opportunity to hear about the relationship between micronucleus induction, which is a key marker of genotoxicity, and carcinogenicity, which is one of the goals of genotoxicity evaluation.

Besides the above, poster and oral presentations on the latest research will be given by JEMS members. We will be incorporating “flash talks” for poster presentations, which will facilitate participation of young researchers. We are looking forward to many people taking this opportunity to attend the meeting as we are planning a variety of programs that will be of interest to all researchers of industry, government and academic backgrounds.

November 2016

46th JEMS Annual Meeting
President

Shuichi Hamada
**The 46th Annual Meeting of the Japanese Environmental Mutagen Society (JEMS)***

"**Diversified and Sophisticated Genotoxicity Assessment; Its Role and Interpretation**"

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**Date**  
**November 6 – 7, 2017**

**Venue**  
**Hitotsubashi Hall, Tokyo**  
2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo 101-8439  

**President**  
**Shuichi Hamada, Ph.D.**  
LSI Medience Corporation

**Important Dates**

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**Banquet**

**Evening, November 6, 2017**

**Josui Kaikan**  
2-1-1 Hitotsubashi, Chiyoda-ku, Tokyo 101-0003

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**Symposium 1**  
*DNA damage-induced mutagenesis and its suppression.*

**Symposium 2**  
*Recent topics of genotoxicity strategy in drug discovery.*

**Symposium 3**  
*New era of environmental mutagenesis -epigenetics and de novo mutation-*

**Symposium 4**  
Joint Symposium with Safety Evaluation Forum  
*Significance of genotoxic evaluation in pharmaceutical development -Requests from toxicologists-*  
Panel discussion: *Q&A for genotoxic evaluation from a viewpoint of pharmaceutical development.*

**Kitashi Mochizuki Prize Award Lecture**

*Chromosome segregation errors and chromothripsis in cancer pathogenesis.*  
Alexander Spektor, M.D., Ph.D. (Harvard Medical School)

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**Secretariat**

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