

IWGT 2017, Tokyo: Proposed time table

Date & time	Main lecture hall	Seminar room A	Seminar room B
<p>8th 10.00</p> <p>10.30 – 12.00</p>	<p>Welcome & Introduction</p>	<p>A Working Group will revisit the bacterial mutagenicity (Ames) test, led by Rita Schoeny, USA, to discuss topics including these.</p> <ul style="list-style-type: none"> • Assay criteria and recommendations <ul style="list-style-type: none"> • Positive and negative responses: Use of historical control data; should there be a formal rule, e.g., fold-increase, GEF, specified statistical procedure(s), a subjective approach, or a combination of these factors? • Criteria for acceptable assays; more accurate descriptions of assay outcomes. • Recommendation for demonstration of laboratory proficiency • Consideration of widely used strains as well as what can be learned from use of others: Using a data-based approach to defining appropriate strain sets for various uses; how can strains be obtained and maintained • Status of <i>in silico</i> SAR tools for prediction of mutagenicity in the Ames test: What is established? What is being predicted from <i>in silico</i> genetic toxicity testing? What are critical problems, and how are these being approached? 	<p>A Working Group on the use of 3D models, led by Stefan Pfuhler, USA. The focus of the WG will be:</p> <ul style="list-style-type: none"> • Introduction to the concept of the use of tissue models in genotox testing • Status review of available genotox data generated in skin, liver and lung 3D tissue equivalents • Discussion of validation status of the most developed 3D assays – the 3D skin micronucleus and comet assays • Discussion of potential uses and test strategy fit • Identification of further steps needed to achieve regulatory implementation • Develop recommendations and capture consensus statements
<p>8th</p> <p>13.30-17.30</p>		<p>Ames WG (continued)</p>	<p>3D WG (continued)</p>
<p>8th</p> <p>18.00-20.00</p>		<p>Welcome reception – in cafeteria</p>	

<p>9th 09.00-12.30</p>		<p>A Working Group on emerging in vitro mammalian genotoxicity systems: endpoints and cell types, led by Bhaskar Gollapudi, USA. The group will critically assess emerging in vitro tools for measuring gene mutations in mammalian cell cultures, covering the following points:</p> <ul style="list-style-type: none"> • Basic algorithm for strategic placement of in vitro mutation assays • Define basic principles of emerging assays • Define current state of emerging assays • Define research needs for the emerging assays to make them useful for regulatory applications • In vitro models that can be used as surrogates for predicting in vivo response at the same locus <ul style="list-style-type: none"> • Higher throughput assays that are less laborious and less expensive • In vitro models to address mechanistic questions dealing with in vivo mutagenicity • Focus groups will be: <ul style="list-style-type: none"> • Improving existing assays by applying new technologies • Mutation assays using cell lines from transgenic rodents • In vitro Pig-a mutation assays • Novel approaches to detect gene mutations in cell cultures 	<p>A Working Group will discuss aspects of risk assessment of aneugens, led by Francesco Marchetti, Canada, covering:</p> <ul style="list-style-type: none"> • Setting the scene: Molecular mechanisms of chromosome segregations • Current regulatory framework: pitfalls and limitations • Utility of the Adverse Outcome Pathway framework for identifying aneugens • Role of aneuploidy in carcinogenesis • Aneuploidy in germ cells and hereditary diseases • Develop consensus on implications of aneuploidy for human risk assessment
<p>9th 14.00-18.00</p>		<p>A Working Group, led by David Kirkland, UK, will discuss in vivo strategies:</p> <ul style="list-style-type: none"> • Can we give more precise advice on appropriate in vivo testing to follow up an in vitro positive? • What can we learn from the historical database of overlapping TGR & comet results? • Can the comet assay be an alternative to the TGR, even for gene mutagens and mutagenic carcinogens? 	<p>Aneugens WG (continued if needed)</p> <p>In vitro WG (continued if needed)</p>

<p>9th 14.00-18.00 (continued)</p>		<ul style="list-style-type: none">• Are site of contact tissues needed in addition to the liver for the in vivo comet assay when combined with bone marrow MN?• If so, is there a need to include glandular stomach as well as duodenum for site-of-contact in the comet assay with orally dosed substances? • What is “adequate exposure” and the proper route of exposure (i.p. vs oral or inhalation) for bone marrow MN test acceptability?• Are certain tissues or routes of exposure preferable, particularly for the in vivo MN test?• Is the i.p. route considered preferable to the normal route of human exposure (oral, inhalation, dermal) because it minimizes first pass metabolism in the liver?• Is demonstration of exposure in the plasma sufficient to ensure exposure of the bone marrow in a micronucleus test?• What is considered “insufficient” bone marrow exposure that might lead to a requirement to perform a site-of-contact comet assay instead of a bone marrow MN test? • What is the state of validation of the MN assay in alternative tissues (i.e. liver, G.I. tract)? • Where does the Pig-a assay fit into regulatory in vivo testing?	
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10th 09.00-12.00		In vivo WG (continued)	To be decided (any unfinished WGs)
<p>10th 13.30-16.45</p> <p>16.45-17.45</p> <p>17.45-18.00</p>	<p>A Plenary Symposium, led by Carole Yauk, Canada, will discuss the state-of-the-science, current application and added-value of high- dimensional data in genetic toxicology testing. Four presentations will review current high-dimensional assays in genetic toxicology:</p> <ul style="list-style-type: none"> • Adductomics – Yukari Totsuka, National Cancer Center, Japan • Whole genome transcriptional profiling - Jos Kleinjans, Maastricht University, the Netherlands • Single-molecule sequencing for mutation detection - Jason Bielas, Fred Hutchinson Cancer Research Center, USA • High-content phenotype-based assays - Ann Doherty, AstraZeneca, United Kingdom <p>Presentations will be followed by a discussion of the strengths, weaknesses, opportunities and threats of each technology.</p> <p>Feedback from all WGs (10 mins each)</p> <p>Closing</p>		