



## Day 4 - Wednesday (Details)

Large Lecture Room

Small Lecture Room

Metal based drugs / Chair: Bernhard Keppler			
08:15	<b>Walter Berger / IL14 / pg 47</b> Networks of molecular mechanisms cooperate in resistance against anticancer metal drugs		
09:00	<b>Hongzhe Sun / IL15 / pg 48</b> Systems approach for revealing the role of metals in medicine		
09:30	<b>Christopher Gerner / L21 / pg 49</b> On the molecular mechanism of action of organometallic anticancer drugs	<b>Isotopic analysis / Chair: Stephan Hann</b>	
09:50	<b>Mario Corte Rodríguez / you12 / pg 50</b> Analysis of cisplatin uptake in sensitive and resistant individual cells by single-cell-ICP-MS	<b>Marta Costas Rodriguez / L22 / pg 51</b> Cu isotope ratio variations in mice suffering from liver disease induced by common bile duct ligation	
09:50		<b>Yu-Ki Tanaka / you13 / pg 52</b> Evaluation of the changes in the net bone volume through the calcium isotopic signatures for CKD and diabetic rat	
10:05	Coffee break		
Metal based drugs / Chair: Maria Montes		Metalloomics in plants / Chair: Stephan Hann	
10:30	<b>Paul Dyson / IL16 / pg 53</b> The influence of RAPTA-T on the tumor microenvironment.	<b>Soren Husted / IL17 / pg 59</b> The power of ICP-MS based bioimaging and speciation analysis to study mineral ion transport and functionality in plants	
11:00	<b>Christian Kowol / L23 / pg 54</b> Distinctly enhanced anticancer activity in vivo by albumin-targeted platinum(IV) prodrugs	<b>Markus Puschenreiter / L28 / pg 60</b> Mobilization of iron by phytosiderophores in the rhizosphere of wheat	
11:20	<b>Michael Jakupec / L24 / pg 55</b> Multicellular spheroids as models and tools in anticancer metallodrug research	<b>Emiko Harada / L29 / pg 61</b> Hyperaccumulation of manganese in a submerged plant is mediated by epiphytic bacteria	
11:40	<b>Karla Pelivan / you14 / pg 56</b> Understanding the pharmacological behavior of the anticancer drug Triapine and its biologically active iron complex	<b>Sho Nishida / L30 / pg 62</b> Splicing isoform of NjZNT1 expressed in the zinc hyper accumulator <i>Noccaea japonica</i> encodes full active zinc transporter	
12:00	<b>Petra Heffeter / L26 / pg 57</b> In vivo evaluation of serum binding, tissue distribution and anticancer activity of bismaleimide-containing oxaliplatin prodrugs after short- and long-time treatment	<b>Katarzyna Kinska / L31 / pg 63</b> Identification of palladium species following the uptake and metabolism of Pd nanoparticles by <i>Sinapis alba</i> L.	
12:20	<b>Alessio Terenzi / L27 / pg 58</b> Ruthenium arene complexes for G-quadruplex DNA recognition	<b>Günther Weber / L32 / pg 64</b> Investigation into the coumarin-mediated mechanism of iron acquisition from alkaline soil into plants	
12:40	Lunchseminar (Agilent: Understanding mechanisms of ICP-MS/MS for the accurate quantification of heteroatoms) / Lunchbreak		
13:30	Postersession		
Metal based drugs / Chair: Hongzhe Sun		Applications / Chair: Heidi Goenaga-Infante	
14:30	<b>Angela Casini / IL18 / pg 65</b> Supramolecular Self-assembled Metallacages for Biomedical Applications: New Insights	<b>Xinrong Zhang / IL19 / pg 68</b> Study of Organic Reactions with ICP-MS/MS	



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15:00	<b>Schoenhacker-Alte, Beatrix / L33 / pg 66</b> The role of caspase 8 induction and disruption of ER homeostasis in the sensitivity towards the GRP78 inhibitor KP1339/IT-139	<b>Jenifer García-Fernández / you16 / pg 69</b> Studies on Characterization and Bioavailability of Iron Oxide Nanoparticles for the Treatment of Iron Deficiency Anaemia	
15:15	<b>Daisy Wong / you15 / pg 67</b> Anti-Tumour Complex Dirhodium(II) Tetraacetate and its Interactions with Glutathione and Human Metallothionein	<b>Joanna Legat / you17 / pg 70</b> Interaction of medically promising gold nanorods with human serum proteins examined by CE-ICP-MS	
15:30	Coffee break		
	<b>Metals in biomedicine / Chair: Christian Hartinger</b>	<b>Applications of metallomic approaches / Chair: Christopher Gerner</b>	
16:00	<b>Frank Vanhaecke / IL20 / pg 71</b> Medical diagnosis based on natural isotope ratio variations of essential mineral elements in human biofluids?	<b>Qiuquan Wang / IL21 / pg 78</b> Metal-tagging strategy for PTMs Analysis	
16:30	<b>José Gómez-Ariza / L34 / pg 72</b> Characterization of metals profiles and homeostasis in serum during the progression of Alzheimer's disease	<b>Mona Sharar / you18 / pg 79</b> Elemental labeling for addressing peptides and proteins post-translational modifications: the formation of cysteine sulfenic acids	16:30
16:50	<b>Sarah Theiner / L35 / pg 73</b> Multimodal imaging of multicellular tumor spheroids by MALDI-MS and high Resolution LA-ICP-MS	<b>Antje Jutta Herrmann / you19 / pg 80</b> Novel antibody tagging strategy using lanthanide loaded NHS-DOTA-ester for the application in highly selective LA-ICP-MS-based immunoassays	16:45
17:10	<b>Elena Milaeva / L36 / pg 74</b> Tin- and gold complexes with antioxidant pendants - candidates for selective anticancer agents	<b>Dorothee Ott / you20 / pg 81</b> Deeper insight into Fe(III) and Al(III) binding to the shuttle protein serum transferrin using ESI mass spectrometry and circular dichroism	17:00
17:30	<b>Margot Wenzel / L37 / pg 75</b> 'Gold-finger' domains formation by organometallic gold compounds: strategies to design PARP-1 inhibitors for cancer treatment	<b>Stefanie Fingerhut / you21 / pg 82</b> Gadolinium in human brain - LA-ICP-MS to quantify the distribution of gadolinium in different brain regions	17:15
17:50	<b>Konstantinos Kiakos / L38 / pg 76</b> Restoring cellular sensitivity to platinum-based drugs by targeted inhibition of STAT3	<b>Shahin Amirkhalili / you22 / pg 83</b> LA-ICP-MS imaging experiments on snap frozen tissue sections using a cooled ablation stage	17:30
18:10	<b>Hristo Varbanov / L39 / pg 77</b> Oxaliplatin reacts with DMSO only in the presence of water. Impact on drug combination studies	<b>Hannah Holtkamp / you23 / pg 84</b> Efficient separations of organometallic anticancer agents in serum samples using coated capillaries for CE-ICP-MS analysis	17:45
		<b>Luis Galvez / you24 / pg 85</b> In vitro investigations on oxaliplatin - a comparison study of resistant and sensitive cells	18:00
		<b>Christian Artner / you25 / pg 86</b> DNA or Protein - Capillary Zone Electrophoresis-Mass Spectrometry Rapidly characterizes Metallodrug binding Preferences	18:15