



## Day 5 - Thursday (Details)

Large Lecture Room

Small Lecture Room

Metal based drugs / Chair: Christian Kowol		Bioinorganic chemistry / Chair: David Giedroc	
08:30	<b>Christian Hartinger / IL22 / pg 87</b> Bioanalytical Studies in the Development of Anticancer Metallodrugs	<b>Peter Faller / IL23 / pg 91</b> Bioinorganic Chemistry of amyloidogenic peptides	
09:00	<b>Jürgen Gailer / L40 / pg 88</b> Tuning the metabolism of cisplatin	<b>Gerhard Multhaupt / L43 / pg 92</b> The $\beta$ -site Amyloid precursor protein cleaving enzyme beta-secretase (BACE1) modulates intracellular copper homeostasis	
09:20	<b>Eva Fischer-Fodor / L41 / pg 89</b> Molecular basis of platinum based drugs' ototoxicity-an in vitro study on inner ear cells	<b>Atsushi Takeda / L44 / pg 93</b> Extracellular Zn <sup>2+</sup> is essential for amyloid $\beta$ 1-42-induced cognitive decline in the normal brain and its rescue	
09:40	<b>Samuel Meier / L42 / pg 90</b> Unravelling the Reactivity of Gold-based Metallodrugs with Zinc Finger Domains and G-Quadruplex DNA by Mass Spectrometry	<b>Erin McAllum / L45 / pg 94</b> Identifying specific metalloproteomic changes in dementia with Lewy bodies using HPLC-ICP-MS	
10:00	Coffee break		
Imaging / Chair: Frank Vanhaecke		Applications / Chair: Thomas Walzyk	
10:30	<b>Joanna Collingwood / IL24 / pg 95</b> The case for imaging and speciation of metals in neurodegenerative disorders		
11:00	<b>Mari Shimura / L46 / pg 96</b> Imaging of intracellular fatty acids by a single element labeling	<b>Anton Legin / L25 / pg 101</b> Ruthenium-based drug interactions with lipid turnover in cancer cells revealed by correlative NanoSIMS and TEM imaging	
11:20	<b>Stijn Van Malderen / L47 / pg 97</b> High-resolution LA-ICP-MS imaging of lanthanide-based (hybrid) labels with low-dispersion aerosol transport systems	<b>Claudia Swart / L51 / pg 102</b> Importance of Reference Measurement Procedures in Diagnostic of Alzheimer's Disease	
11:40	<b>Michael Sperling / L48 / pg 98</b> Quantitative Bioimaging by LA-ICP-MS for Studying the Migration of Silver from Silver-coated Endoprostheses	<b>Wenbing Yun / L52 / pg 103</b> A New Approach to Microns-Resolution Trace Element Mapping at PPM Sensitivity for Metallomics	
12:00	<b>Liuxing Feng / L49 / pg 99</b> A Novel Absolute Quantitative Imaging strategy of Iron, Copper and Zinc in Biological Tissues by Isotope Dilution Laser Ablation ICP-MS	<b>Hongyan Li / L53 / pg 104</b> Tracking arsenic binding proteins in live leukemia cells by an organoarsenic probe	
12:20	<b>Bill Spence / L50 / pg 100</b> An instrumental approach to improving trace metal determinations for metallomics analysis	<b>Maria Florez / L54 / pg 105</b> Natural Fe isotope fractionation in an intestinal Caco-2 cell line model	
12:40	Lunch		



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### Biochemistry of metals / Chair: Peter Faller

13:30	<b>David Giedroc / IL25 / pg 106</b> Mechanisms of Zinc Metallostasis in Bacterial Pathogens
14:00	<b>Shigetoshi Aono / L55 / pg 107</b> Structure and Function of Heme Transport Proteins in <i>Corynebacterium glutamicum</i>
14:20	<b>Clotilde Policar / L56 / pg 108</b> Inorganic Complexes for Applications in Biology: Mn-Complexes as SOD mimics from Design to Evaluation in Cells
14:40	<b>Ferman Chavez / L57 / pg 109</b> Synthetic studies for bioremediation enzymes
15:00	<b>Takamitsu Kohzuma / L58 / pg 110</b> Structure and Function of Non-Covalent Weak Interaction in Blue Copper Protein
15:20	<b>Angel Zhang / you26 / pg 111</b> Computational and spectroscopic studies toward design of chlorophyll derivatives for photodynamic therapy
15:35	Coffee break
16:05	Closing ceremony