

FINAL PROGRAM



61st International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA)

including Presymposium
European Cooperation in Science and Technology (COST 1006)
*Challenges and Limitations in Metabolic Pathway Engineering
of Secondary Natural Products*

September 1 – 5, 2013
Münster, Germany



WESTFÄLISCHE
WILHELMS-UNIVERSITÄT
MÜNSTER

www.ga2013.org



SUNDAY, SEPTEMBER 1, 2013

12:00 to 18:00 **Registration** Foyer Lecture Auditorium

13:00 to 17:00 **Poster Mounting** Poster Tent

13:00 to 17:00 **8th Young Researchers Workshop**

Lecture Hall H3

13:00 to 17:00 **Regulatory Affairs Workshop**

Lecture Hall H2 *Harmonization of health claims in EU*

13:00 to 17:00 **Presymposium COST Workshop**

Lecture Hall H4 *Challenges and limitations in metabolic pathway engineering of secondary natural products*

18:00 to 19:00 **Opening Lecture, including Greeting Address**

Plenary Lecture 1 **Alan Fairlamb**, Dundee, United Kingdom:

Lecture Hall H1 *Natural products and drug discovery for tropical diseases – successes, failures and lessons learned*

19:00 to 21:00 **Get together**

Schlosspark in and around the Münster castle





8TH YOUNG RESEARCHERS WORKSHOP

SUNDAY, SEPTEMBER 1, 13:00 – 17:00, LECTURE HALL 3

	Chairs: Prof. Dr. D. Tasdemir , University of Galway, Ireland Prof. Dr. A. R. Bilia , University of Florence, Italy
13:00 – 13:10	Welcome and Introduction
13:10 – 13:40	WS5 Impulse lecture 1 Guidelines for a good scientific talk – How to structure and set up a clear research presentation with your own findings. <i>Grienke A, University of Innsbruck, Austria</i>
13:40 – 14:10	WS6 Impulse lecture 2 Method and result optimizations in the search for cancer chemopreventive natural products. <i>Cuendet M, University of Geneva, University of Lausanne, Switzerland</i>
14:10 – 14:40	Coffee Break
14:40 – 15:10	WS7 Impulse lecture 3 Perspectives in Industry and Academia. <i>Abel G, Bionorica SE, Neumarkt, Germany</i>
15:10 – 15:25	WS8 Anti-Inflammatory depsides from <i>Cetrelia monachorum</i> potentially targeting mPGES-1, 5-LO and NF- κ B. <i>Öttl SK, University of Innsbruck, Austria</i>
15:25 – 15:40	WS9 Identification of dihydrostilbenes as a new scaffold for GABAA receptor modulators in <i>Pholidota chinensis</i> stems and roots. <i>Rueda DC, University of Basel, Switzerland</i>
15:40 – 15:55	WS10 Polyphenolic fingerprints of different organs of <i>Rosa hybrida</i> cv. 'Jardin de Granville'. <i>Riffault L, Université d'Orléans, France</i>
15:55 – 16:10	WS11 Polyphenolic composition and antichlamydia effect of commercial peppermint (<i>Mentha × piperita</i> L.) teas <i>Kapp K, University of Helsinki, Finland</i>
16:10 – 16:25	WS12 Occurrence of (R_S, R_C)- and (S_S, R_C)-marasmin in <i>Tulbaghia violacea</i> . Harv. <i>Neumann S, Philipps University Marburg, Germany</i>
16:25-16:40	WS13 <i>In vitro</i> antihyperlipidemic activity of triterpenes from stem bark of <i>Protorus longifolia</i> (Benrh) Engl. <i>Mosa RA, University of Zululand, South Africa</i>
16:40 – 17:00	Final discussion and conclusion

REGULATORY AFFAIRS WORKSHOP



Where do we stand with the Harmonisation of Health Claims versus Medicinal Claims for Herbal Products in the European Union?

SUNDAY, SEPTEMBER 1, 13:00 – 17:00, LECTURE HALL 2

	Chairs: Prof. Dr. A. Prof. Dr. A. Vlietinck , University of Antwerp, Belgium Prof. Dr. S. Alban , University of Kiel, Germany
13:00 – 13:10	Welcome and Introduction
13:10 – 13:40	WS1 Health claims for botanical food supplements: Approach and consequences for the regulatory framework. <i>Coppens P, Secretary General of the Europ. Botanical Forum, Brussels, Belgium</i>
13:40 – 14:10	WS2 Efficacy and safety regulations and scientific criteria applicable to traditional botanical food supplements and herbal medicinal products marketed in the European Union. <i>Silano V, University of Rome, Italy</i>
14:10 – 14:40	Coffee Break
14:40 – 15:10	WS3 Why do we have for health claims different criteria between plant-based food supplements and herbal medicinal products? <i>Anton R, University of Strasbourg, France</i>
15:10 – 15:40	WS4 Herbal medicinal products in the European Union: Indications versus claims: An up-to-date scientific view. <i>Chinou I, University of Athens, Greece, Chair of the HMPC Working Party on Community Monographs and Community Lists (MLWP) of the European Medicines Agency (EMA)</i>
15:40 – 17:00	Panel discussion and conclusion





PRESYMPOSIUM COST WORKSHOP

Challenges and Limitations in Metabolic Pathway Engineering of Secondary Natural Products

SUNDAY, SEPTEMBER 1, 13:00 – 17:00, LECTURE HALL 4

	Chair: Prof. Dr. O. Kayser , University of Dortmund, Germany
13:00 – 13:10	Welcome and Introduction Plants – Learning chemical biology from nature. <i>Kayser O, University of Dortmund, Germany</i>
13:10 – 13:30	WS14 Introduction to COST Action FA1006 – PlantEngine. <i>Warzecha H, University of Darmstadt, Germany</i>
13:30 – 14:00	WS15 Invited lecture Metabolic engineering of volatile production. <i>Schuurink R, University of Amsterdam, The Netherlands</i>
14:00 – 14:30	WS16 Invited lecture <i>A Medicago truncatula</i> ABCG transporter modulates the level of isoflavonoids. <i>Jasinski M, Poznań University of Life Sciences, Poland</i>
14:30 – 15:00	Coffee Break
15:00 – 15:30	WS17 Invited lecture Metabolic engineering of terpenoid indole alkaloid pathway in <i>Catharanthus roseus</i> . <i>Oksman-Caldentey KM, VTT Technical Research Centre of Finland</i>
15:30 – 16:00	WS18 Invited lecture GondenBraid2.0: A comprehensive toolkit for Plant Synthetic Biology. <i>Orzáez D, University of Valencia, Spain</i>
16:00 – 16:15	WS19 Short lecture Synergy and antagonism of active constituents in a complex herbal formulation on metabolic regulation at a transcriptional level. <i>Panosian A, Goteborg, Sweden</i>
16:15 – 16:30	WS20 Short lecture <i>Mucuna pruriens</i> (Kewanch), the L-DOPA (anti Parkinson's drug) producing plant species: current scenario and future prospects. <i>Dhawan SS, India</i>
16:30 – 17:00	Round table discussion: Plant natural products – adopting chemistry from plants. Where are we?



MONDAY, SEPTEMBER 2, 2013

07:30 – 18:30		Registration	Foyer Lecture Auditorium		
08:00 – 16:00		Poster Mounting	Poster Tent (Posters PA, PF, PJ, PK, PL, PM)		
08:15 – 09:00		Opening Session	Lecture Hall 1 Andreas Hensel, Thomas J. Schmidt for the Local Organizing Committee, Rector of the University of Münster, Mayor of City of Münster, President of GA Music by NordWestBlech		
09:00 – 09:35		GA-Award Lecture: Egon-Stahl Award in Silver	Sandra Apers, Antwerp, Belgium Lecture Hall 1		
09:35 – 10:10		GA-Award Lecture: Bionorica Phytoneering Award	Robert Fürst, Frankfurt, Germany Lecture Hall 1		
10:10 – 10:45		Coffee Break			
10:45 – 11:30	Exhibition open	Anniversary Ceremony 60 Years of Planta Medica	Lecture Hall 1 Thieme Publisher Most Innovative Planta Medica Paper Award for Murch Susan, Canada L. Pieters, A. Nahrstedt and M. Hamburger		
11:40 – 12:25		12:00 to 18:30	Short Lecture Session 1A (SL 33 – 35) Natural Product Chemistry 1 Lecture Hall 1	Short Lecture Session 1B (SL 36 – 38) Natural Product Chemistry 2 Lecture Hall 2	Short Lecture Session 1C (SL 39 – 41) Natural Product Chemistry 3 Lecture Hall 3
12:25 – 14:00		Lunch time			
14:00 – 14:45		Plenary Lecture 2	Lecture Hall 1 <i>Elaine Elisabetsky, Porto Alegre, Brazil:</i> Ethnopharmacology examples from Amazonian folk medicine		
14:55 – 15:55		Short Lecture Session 2A (SL 54 – 57) Quality Control Methods Lecture Hall 1	Short Lecture Session 2B (SL 21 – 24) Ethnopharmacology Lecture Hall 2	Short Lecture Session 2C (SL 68 – 71) Miscellaneous 1 Lecture Hall 3	Short Lecture Session 2D (SL 72 – 75) Miscellaneous 2 Lecture Hall 4
16:00 – 18:30		Poster Session 1	Poster Tent / Posters PA, PF, PJ, PK, PL, PM 16:00 – 17:00 Coffee 17:15 – 18:15 Wine and More		
18:45 – 20:15		Networking Workshop Animal Healthcare and Veterinary Medicine Lecture Hall 3	Workshop How to publish a Scientific Paper Lecture Hall 1		



SHORT LECTURE SESSION 1A

Natural Product Chemistry 1

MONDAY, SEPTEMBER 2, 11:40 – 12:25, LECTURE HALL 1

		Chair: Prof. Dr. Norberto P. Lopes , Ribeirão Preto, Brazil
11:40 – 11:55	SL33	Parvifloranine A and B, two 11-C skeleton alkaloids from the Australian <i>Geijera parviflora</i> (Rutaceae) formed by a Mannich type reaction, inhibit the synthesis of nitric oxide. <i>Shou Q, Banbury LK, Renshaw DE, He X, Griesser HJ, Heinrich M, Wohlmuth H</i>
11:55 – 12:10	SL34	Dihydroanthracenone atropodastereomers from the endophytic fungus <i>Talaromyces wortmanii</i> with activity against multi-resistant <i>Staphylococcus aureus</i> . <i>Bara R, Aly AH, Kurtán T, Debbab A, Brötz-Oesterhelt H, Proksch P</i>
12:10 – 12:25	SL35	Determination of configuration at C-13 of (–)-ent-8 β -hydroxy-labdan-15-oic acid and its biotransformation by <i>Battus polydamas</i> larvae. <i>Nogueira CR, Lopes LM</i>

SHORT LECTURE SESSION 1B

Natural Product Chemistry 2

MONDAY, SEPTEMBER 2, 11:40 – 12:25, LECTURE HALL 2

		Chair: Prof. Dr. Deniz Tasdemir , Galway, Ireland
11:40 – 11:55	SL36	Embellicines A and B - Absolute configuration and NF- κ B transcriptional inhibitory activity. <i>Ebrahim W, Aly AH, Diederich M, Kurtán T, Debbab A, Proksch P</i>
11:55 – 12:10	SL37	Chemical constituents from the roots of the thai medicinal plant <i>Strophoblachia fimbriicalyx</i> ; their biological activities and proposed biosynthesis. <i>Seephonkai P, Pyne SG, Willis AC, Lie W, Sangdee A, Bunchalee P</i>
12:10 – 12:25	SL38	<i>Erythrina</i> alkaloids achievements and perspectives. <i>Soto-Hernandez M, Garcia-Mateos R, San Miguel Chavez R, Kite G</i>

SHORT LECTURE SESSION 1C

Natural Product Chemistry 3



MONDAY, SEPTEMBER 2, 11:40–12:25, LECTURE HALL 3

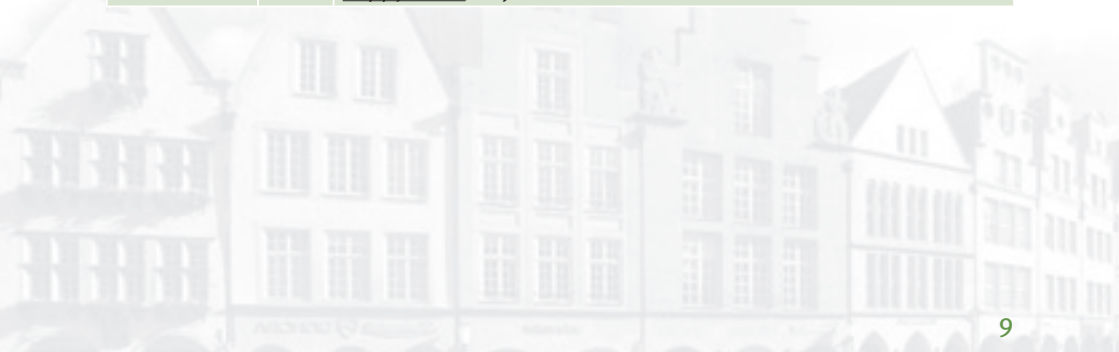
	Chair: Prof. Dr. Fernando B. Da Costa , Ribeirão Preto, Brazil
11:40 – 11:55	SL39 Alkaloid content of <i>Rauvolfia nukuhiensis</i> : genetical discrimination and new putative biosynthesis pathway. <i>Martin NJ, Thomas OP, Lecellier G, Nicolas M, Christian P, Raharivelomanana P</i>
11:55 – 12:10	SL40 <i>Swartzia simplex</i> a source of new antifungal compounds. <i>Favre-Godal Q, Queiroz E, Marcourt L, Gupta M, Wolfender J</i>
12:10 – 12:25	SL41 Targeted isolation of induced and bioactive metabolites from fungal co-cultures. <i>Bohni N, Schumpp O, Schnee S, Bertrand S, Gindro K, Wolfender J</i>

SHORT LECTURE SESSION 1D

Natural Product Chemistry 4

MONDAY, SEPTEMBER 2, 11:40–12:25, LECTURE HALL 4

	Chair: Prof. Dr. Matthias Melzig , Berlin, Germany
11:40 – 11:55	SL42 Identification of quinolactin alkaloids from fungi associated to Brazilian red algae <i>Dichotomaria marginata</i> by LC-PDA-MS and LC-MS ⁿ . <i>Andrade TJ, Somensi AH, Lopes MN, Araujo AR, Jaspars M, Silva DH</i>
11:55 – 12:10	SL43 Converting the molecular framework of medicinal plant constituents: a fermented <i>Mercurialis</i> extract with wound-healing activity. <i>Lorenz P, Stintzing FC</i>
12:10 – 12:25	SL44 Monitoring metabolites production and cannabinoids analysis in medicinal <i>Cannabis</i> trichomes during flowering period by 1H NMR-based metabolomics. <i>Happyana N, Kayser O</i>





SHORT LECTURE SESSION 2A

Quality Control Methods for Medicinal Plants, Extracts and Isolated Natural Compounds

MONDAY, SEPTEMBER 2, 14:55 – 15:55, LECTURE HALL 1

		Chair: Prof. Dr. Luc Pieters , Antwerp, Belgium
14:55 – 15:10	SL54	Quality control of phytomedicines – is the herbal medicine industry facing a crisis? <i>Viljoen AM, Vermaak I, Chen W</i>
15:10 – 15:25	SL55	Analytical and active markers for quality assessment of <i>Leonurus cardiaca</i> and <i>L. japonicus</i> : RP-HPLC, HPTLC, and ¹ H-qNMR approaches for the determination of defined phenolic and N-containing constituents. <i>Kuchta K, Rauwald HW</i>
15:25 – 15:40	SL56	<i>Aristolochia</i> species: Toxicological risk assessment using a metabolomic approach. <i>Michl J, Kite G, Simmonds M, Ingrouille M, Heinrich M</i>
15:40 – 15:55	SL57	The estimation of factors defining the trace element structure of plants. <i>Kruglov DS</i>

SHORT LECTURE SESSION 2B

Ethnopharmacology of African / Amazonian Medicine

MONDAY, SEPTEMBER 2, 14:55 – 15:55, LECTURE HALL 2

		Chair: Prof. Dr. Veronika Butterweck , Muttenz, Switzerland
14:55 – 15:10	SL21	Evaluation of nigerian ethnomedical plants for anti-infective and antidiabetic properties. <i>Adebajo AC, Rukunga GM, Schmidt TJ, Verspohl EJ</i>
15:10 – 15:25	SL22	Rooibos tea improves sperm concentration and functions in the rat. <i>Monsees TK, Opuwari CS</i>
15:25 – 15:40	SL23	Traditional African Medicine as a source of biologically active substances inhibiting neuroinflammation. <i>Olajide O, Fiebich B</i>
15:40 – 15:55	SL24	Establishment of a sustainable wild collection for Jaborandi (<i>Pilocarpus microphyllus</i> STAPF ex WARDLEWORTH) in the pre Amazonian Area in Brazil. <i>Hagels H, von Treuenfels A, Rudge V, Gropper M</i>

SHORT LECTURE SESSION 2C



Miscellaneous 1

MONDAY, SEPTEMBER 2, 14:55 – 15:55, LECTURE HALL 3

	Chair: Prof. Dr. Guo De-An , Shanghai, China
14:55 – 15:10	SL68 Effective plant reproduction of <i>Pelargonium sidoides</i> by using somatic embryogenesis. <i>Duchow S, Blaschek W, Classen B</i>
15:10 – 15:25	SL69 Anti-viral and anti-inflammatory efficacies of Sinupret® dry extract BNO 1011 rationalise its therapeutic use in acute rhinosinusitis. <i>Werz O, Seifert S, Wosikowski K, Haunschild J</i>
15:25 – 15:40	SL70 Calcium antagonistic effects of ethanolic myrrh extract in inflamed intestinal smooth muscle preparations. <i>Vissiennon C, Goos K, Goos O, Nieber K</i>
15:40 – 15:55	SL71 Anti-cancer thymoquinone from <i>Nigella sativa</i> . <i>Li WW, Rosa JO, Siddique MR, Bajana B, Sulé-Suso J, Richardson A</i>

SHORT LECTURE SESSION 2D

Miscellaneous 2

MONDAY, SEPTEMBER 2, 14:55 – 15:55, LECTURE HALL 4

	Chair: Prof. Dr. Hüsnü Baser , Eskisehir, Turkey
14:55 – 15:10	SL72 Characterisation and specificity of different spermidine synthases. <i>Coppi R, Westermann B, Dräger B</i>
15:10 – 15:25	SL73 Dr. Willmar Schwabe Research Scholarship for Young Scientists <i>In vitro</i> transport studies with kaempferol and its anxiolytic metabolite 4-HPAA in human cell models. <i>Moradi-Afrapoli F, Oufir M, Butterweck V, Hamburger M</i>
15:25 – 15:40	SL74 Inhibition of aquaporin-1 but not aquaporin-4 water permeability by bacopaside I derived from <i>Bacopa monnieri</i> . <i>Pei J, Campbell EM, Yool AJ</i>
15:40 – 15:55	SL75 The biocatalytic capacity of tropinone reductase-like enzymes from plants. <i>Blum E, Reinhardt N, Fischer J, Schulze E, Brandt W, Dräger B</i>



TUESDAY, SEPTEMBER 3, 2013

08:00 – 18:00		Registration	Foyer Lecture Auditorium		
08:00 – 09:30		Poster Mounting	Poster Tent (Posters PE, PG, PH, PI, PO)		
08:30 – 09:15		Plenary Lecture 3	Lecture Hall 1 <i>Johannes van Staden, Pretoria, South-Africa:</i> African Ethnopharmacology: The Southern African Perspective		
09:25 – 10:10	Exhibition open	Short Lecture Session 3A (SL 12 – 14) Skin-active Natural Products Lecture Hall 1	Short Lecture Session 3B (SL 58 – 60) Quality Control Methods Lecture Hall 3	Short Lecture Session 3C (SL 25 – 27) Computational Methods Lecture Hall 2	Short Lecture Session 3D (SL 61 – 64) Animal Health Care, Veterinary Medicine Lecture Hall 4
10:15 – 12:15		Poster Session 2 Poster Tent / Posters PE, PG, PH, PI, PO 10:15 – 11:15 Coffee			
12:15 – 14:15	09:00 to 16:15	Lunch Time	GA Workshop Lecture Hall 3 Current Aspects in Manufacturing of Herbal APIs (Extracts): GACP Regulations/GMP Implementation/ Process Development		
14:15 – 15:00		Plenary Lecture 4	Lecture Hall 1 <i>Sami A. Khalid, Omdurman, Sudan:</i> Current state and future perspectives of natural products-based drug discovery in Africa		
15:00 – 15:45		Plenary Lecture 5	Lecture Hall 1 <i>Ronald Quinn, Brisbane, Australia:</i> Computational Methods in Natural Products Chemistry		
15:45 – 16:15		Coffee Break			
16:15 – 16:45		Highlight Lecture	Lecture Hall 1 <i>Jandirk Sendker, Münster, Germany:</i> About the potential of plant senescence as a new source for drug discovery		
16:50 – 18:20		Short Lecture Session 4A (SL 7 – 11) In vivo Phyto-pharmacology Lecture Hall 1	Short Lecture Session 4B (SL 1 – 6) Neglected Diseases Lecture Hall 2	Short Lecture Session 4C (SL 28 – 32) Hyphenated analytical Techniques, Target Fishing Lecture Hall 3	Short Lecture Session 4D (SL 15 – 20) Skin-active Natural Products Lecture Hall 4
18:30 – 20:30		GA Members Meeting Lecture Hall 1			

SHORT LECTURE SESSION 3A

Skin Active Natural Products



TUESDAY, SEPTEMBER 3, 09:25 – 10:10, LECTURE HALL 1

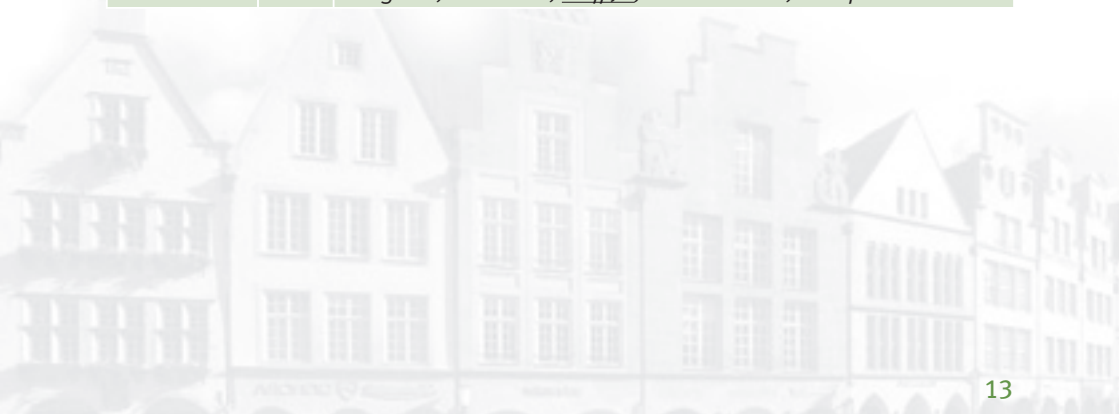
	Chair: Prof. Dr. Andreas Hensel , Münster, Germany
09:25 – 09:40	SL12 Evaluation of anti-acne activity of selected Sudanese medicinal plants. <i>Muddathir AM, Mitsunaga T, Yamauchi K</i>
09:40 – 09:55	SL13 Development of a cosmetic plant active ingredient: sustainable and scientific considerations. The example of an ash manna tree extract (<i>Fraxinus ornus L.</i>). <i>Lubrano C, Touzeau B, Laperdrix C, Robin J</i>
09:55 – 10:10	SL14 Tyrosinase inhibitory compounds from <i>Juglans sigillata</i> Dode. <i>Si C, Xu G, Hu W, Wu L, Liu S</i>

SHORT LECTURE SESSION 3B

Quality Control Methods for Medicinal Plants, Extracts and Isolated Natural Compounds

TUESDAY, SEPTEMBER 3, 09:25 – 10:10, LECTURE HALL 3

	Chair: Prof. Dr. Brigitte Kopp , Vienna, Austria
09:25 – 09:40	SL58 Quality control of <i>Lycium barbarum</i> fruits: a valuable source of carotenoids. <i>Karioti A, Bergonzi C, Bilia A</i>
09:40 – 09:55	SL59 Safety data for herbal medicinal products: Assessment of genotoxicity. <i>Kraft K, Kelber O, Steinhoff B</i>
09:55 – 10:10	SL60 Beyond the African Herbal Pharmacopoeia: Recent progress towards new quality standards for African Herbal Products. <i>Abegaz B, Brendler T, Eloff JN, Gurib-Fakim A, Phillips D</i>





SHORT LECTURE SESSION 3C

Computational Methods in Natural Products Chemistry

TUESDAY, SEPTEMBER 3, 09:25 – 10:10, LECTURE HALL 2

		Chair: Prof. Dr. Judith Rollinger, Innsbruck, Austria
09:25 – 09:40	SL25	Pharmacophore-based identification of novel hERG channel blockers of natural origin – Development of a virtual screening workflow and experimental validation. <i>Kratz JM, Edtbauer M, Mair CE, Hering S, Schuster D, Rollinger JM</i>
09:40 – 09:55	SL26	Temporal characteristics of a natural products in-house database. <i>Oliveira TB, Chagas-Paula DA, Rosa AL, Gobbo-Neto L, Schmidt TJ, Da Costa FB</i>
09:55 – 10:10	SL27	Discovery of plant anti-inflammatory biomarkers by machine learning algorithms and metabolomic studies. <i>Chagas-Paula DA, Zhang T, Oliveira TB, Edrada-Ebel R, Da Costa FB</i>

SHORT LECTURE SESSION 3D

Animal Health Care and Veterinary Medicine

TUESDAY, SEPTEMBER 3, 09:25 – 10:10, LECTURE HALL 4

		Chair: Dr. Michael Walkenhorst, Frick, Switzerland
09:25 – 09:40	SL61	Research on herbal products for production of animals in the Netherlands. <i>Groot MJ, Asseldonk TM, Fink-Gremmels J, Lourens S, Wagenaar J, Kleijer-Ligtenberg G</i>
09:40 – 09:55	SL63	Veterinary use of <i>Cassia nigricans</i> Vahl: Donkey wound healing property. <i>Cissé NS, Togola A, Doumbia A, Diallo D</i>
09:55 – 10:10	SL64	Effects of saponin fractions from fenugreek and the soap bark tree in the diet on performance of Nile tilapia, <i>Oreochromis niloticus</i> (L.). <i>Stadlander T, Khalil WK, Levavi-Sivan B, Kerem Z, Dweik H, Qutob M, Abu-Lafi S, Focken U, Becker K</i>



Current Aspects in Manufacturing of Herbal APIs (Extracts): GACP Regulations / GMP Implementation / Process Development

TUESDAY, SEPTEMBER 3, 12:15 – 14:15, LECTURE HALL 3

	Chairs: Dr. Clemens Erdelmeier , Dr. Wilmar Schwabe GmbH&Co.KG, Karlsruhe, Germany Dr. Sybille Buchwald-Werner , Vital Solution GmbH, Langenfeld, Germany
12:15 – 12:35	WS22 GACP regulations for herbal raw materials. <i>H. Hagels, Boehringer Ingelheim AG, Germany</i>
12:35 – 12:55	WS23 Implementation of GMP in manufacturing of herbal APIs (extracts). <i>F. Waimer, Dr. Willmar Schwabe, Germany</i>
12:55 – 13:15	WS24 QBD in process design for phytoextracts. <i>M. Tegtmeyer, Schaper & Brümmer, Germany</i>
13:15 – 13:35	WS25 Regulatory viewpoint. <i>R. Reh, German Federal Institute for Drugs and Medical Devices, Germany</i>
13:35 – 14:15	Discussion and conclusion

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1 Rabe et al. Phlebologie 2003; 32 (1):1-14. German volunteers aged 18 to 79 years. Scientifically proven: Oedema reduction, improvement of cutaneous microcirculation and oxygen supply, improvement of CVI related symptoms: Kiesewetter H et al. Arzneimittelforschung. 2000 Feb;50(2):109-17. Kalus U et al. Drugs R D. 2004;5(2):63-71. Rabe E et al. Eur J Vasc Endovasc Surg. 2011 Apr;41(4):540-7.

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SHORT LECTURE SESSION 4A

In vivo Phytopharmacology

TUESDAY, SEPTEMBER 3, 16:50 – 18:05, LECTURE HALL 1

	Chair: Prof. Dr. Matthias Hamburger , Basel, Switzerland
16:50 – 17:05	SL7 A multitarget approach by STW5: the inhibition of a proinflammatory signature, the increase of membrane-bound mucins and the restoration of barrier function improves esophagitis in rats. <i>Ulrich-Merzenich G, Khayyal MT, Kelber O, Weiser D, Abdel-Aziz H</i>
17:05 – 17:20	SL8 Comfrey root extract in combination with methylnicotinate in the treatment of acute upper or lower back pain: Results of a double-blind, placebo-controlled, multicenter, three-arm RCT. <i>Staiger C, Junker-Samek M, Tschaikein M</i>
17:20 – 17:35	SL9 Memory and cognition enhancing activities of an ethanolic extract from <i>Calendula officinalis</i> flowers after oral administration in rats and mice. <i>Nöldner M, Müsch W, Koch E</i>
17:35 – 17:50	SL10 Antidiabetic activity and chemical characterization of the <i>Acalypha wilkesiana</i> (Euphorbiaceae) Mull Arg. roots in alloxan-induced diabetic rats. <i>Odoh UE, Ndubuokwu RI, Inyagha SI, Ezejiofor M</i>
17:50 – 18:05	SL11 Comparative effects of STW 5 and STW 5-II in Dextran sodium sulfate-induced colitis. <i>Khayyal MT, Wadie W, Weiser D, Abdel-Aziz H</i>

SHORT LECTURE SESSION 4B

Natural Products against Neglected Diseases



TUESDAY, SEPTEMBER 3, 16:50 – 18:20, LECTURE HALL 2

		Chair: Prof. Dr. Sami A. Khalid , Omdurman, Sudan
16:50 – 17:05	SL1	Oxidative stress induced in <i>Leishmania infatum</i> by batzelladine L and norbatzelladine L alkaloids isolated from the marine sponge <i>Monanchora arbuscula</i> . <i>Tempone AG, Pinto EG, Mesquita JT, Santos MF, Berlinck RG, Hajdu E</i>
17:05 – 17:20	SL2	Antiprotozoal isoflavan quinones from <i>Abrus precatorius</i> . <i>Hata Y, De Mieri M, Ebrahimi S, Zimmermann S, Melanie R, Naidoo D, Fouche G, Mokoka T, Maharaj V, Kaiser M, Brun R, Hamburger M</i>
17:20 – 17:35	SL3	Trypanocidal activity of flavonoids from <i>Vitex simplicifolia</i> . <i>Nwodo NJ, Debbab A, Lai D, Brun R, Proksch P</i>
17:35 – 17:50	SL4	Screening of some <i>Asteraceae</i> to discover new active compounds against <i>Trypanosoma brucei</i> by metabolite profiling and PLS analysis. <i>Nogueira MS, da Costa FB, Magenta MA, Kaiser M, Brun R, Schmidt TJ</i>
17:50 – 18:05	SL5	Oxidative stress induced by (-)-elatol leads to autophagic death in amastigote forms of <i>Trypanosoma cruzi</i> . <i>Desoti VC, Lazarin-Bidóia D, Ueda-Nakamura T, Pereira R, Nakamura CV, Silva SO</i>
18:05 – 18:20	SL6	Potent antiplasmodial agents in <i>Carica papaya L.</i> <i>Julianti T, De Mieri M, Ebrahimi S, Neuburger M, Zimmermann S, Kaiser M, Hamburger M</i>





SHORT LECTURE SESSION 4C

Hyphenated Analytical Techniques and Target Fishing

TUESDAY, SEPTEMBER 3, 16:50 – 18:05, LECTURE HALL 3

	Chair: Dr. Gerold Jerz , Braunschweig, Germany
16:50 – 17:05	SL28 Who will get you there quicker, Fred Flintstone or George Jetson? <i>O'Neil-Johnson M, Eldridge G, Maas W</i>
17:05 – 17:20	SL29 Metabolomic strategies in dereplication for targeted cultivation and isolation of new bioactive secondary metabolites from fungal endophytes and marine microbial symbionts. <i>Cheng C, Abdelmohsen U, Grkovic T, Quinn RJ, Hentschel U, Edrada-Ebel R</i>
17:20 – 17:35	SL30 State-of-the-art hyphenated technique HPLC/UV-MS/SPE/NMR interface for new approaches in phytochemical exploration of orchids. <i>Cakova V, Rimlinger N, Antheaume C, André P, Bonté F, Lobstein A</i>
17:35 – 17:50	SL31 LC-MS/MS Metabolic Profiling of different Bamboo leaf extracts. <i>Schlotterbeck G, Hettich T, Riedl W, Butterweck V, Gerig C</i>
17:50 – 18:05	SL32 Electromigration pattern of <i>Saponaria</i> saponins determine their synergistic toxicity enhancement ability of Saporin based targeted immunotoxins <i>in vitro</i> and <i>in vivo</i> . <i>Thakur M, Weng A, Gilbert-Oriol R, von Mallinckrodt B, Fuchs H, Melzig MF</i>

SHORT LECTURE SESSION 4D

Skin-active Natural Products



TUESDAY, SEPTEMBER 3, 16:50 – 18:20, LECTURE HALL 4

		Chair: Prof. Dr. Wolfgang Blaschek , University of Kiel, Germany
16:50 – 17:05	SL15	Proanthocyanidins from <i>Rumex acetosa</i> L. increase the <i>in vitro</i> rate of phagocytosis of <i>Porphyromonas gingivalis</i> in murine macrophages and provide a cytoprotective and anti-inflammatory potential for modern periodontitis therapy. <i>Schmuck JM, Beckert S, Hensel A</i>
17:05 – 17:20	SL16	<i>In vitro</i> testing of skin regenerating potential of fungal polysaccharides and glycoproteins. <i>Ramata-Stunda A, Biluna L, Matjuskova N, Paeglite I, Nikolajeva V, Muiznieks I</i>
17:20 – 17:35	SL17	Non-cellulosic glucans as inducers for differentiation of human keratinocytes. <i>Zacharski D, Brandt S, Hensel A</i>
17:35 – 17:50	SL18	Skin UV-protective effect of <i>Microsorium grossum</i> extract on human dermal fibroblast. <i>Raharivelomanana P, Ho R, Teai T, Meybeck A</i>
17:50 – 18:05	SL19	Keratinocytes as effectors in allergic contact dermatitis towards sesquiterpene lactones - Different behavior of HaCaT and NHEK cells. <i>Hoffmann MK, Schmidt TJ</i>
18:05 – 18:20	SL20	Alkannins and Shikonins: From ancient codes to modern medicine. <i>Assimopoulou AN, Papageorgiou VP</i>





WEDNESDAY, SEPTEMBER 4, 2013

08:00 – 16:00		Registration	Foyer Lecture Auditorium		
08:00 – 09:30		Poster Mounting	Poster Tent (Posters PB, PC, PD, PN)		
08:30 – 09:15		Plenary Lecture 6	Lecture Hall 1 <i>Tony Rawlings, Northwich, United Kingdom:</i> Skin-active Natural Products		
09:15 – 10:00		Plenary Lecture 7	Lecture Hall 1 <i>Veronika Butterweck, Muttenz, Switzerland:</i> Challenges and Pitfalls in Pharmacological Testing of Plant Extracts		
10:00 – 12:00		Poster Session 3	Poster Tent Posters PB, PC, PD, PN 10:15 – 11:15 Coffee		
12:00 – 14:00	Exhibition open	Lunch Time	Workshop	Workshop	
09:00 to 15:00			Lecture Hall 2 12:15 – 13:45 Industry meets Academia, The Search for Common Activities	Lecture Hall 3 12:15 – 13:45 Research Network Natural Products against Neglected Diseases	
14:00 – 14:45		Plenary Lecture 8	Lecture Hall 1 <i>Tony Bacic, Melbourne, Australia:</i> The Role of Non-starchy Polysaccharides (“soluble” Dietary Fibre), in particular (1,3/1,4)-Beta-glucans and Arabinoxylans, in promoting Bowel Health		
14:55 – 16:10		Short Lecture Session 5A (SL 49 – 53)	Short Lecture Session 5B (SL 1 – 6)	Short Lecture Session 5C (SL 76 – 79)	Short Lecture Session 5D (SL 45 – 48)
		Plant Phenols Lecture Hall 1	Animal Health / Veterinary Medicine Lecture Hall 2	Miscellaneous Lecture Hall 3	Natural Products Chemistry Lecture Hall 4
16:15 – 17:00		Closing Ceremony	Lecture Hall 1		
19:00 – 22:30		Congress Dinner	Museum Mühlenhof Address: Theo-Breider-Weg 1, 48149 Münster Bus transfer will be provided From castle to Mühlenhof departure at 18.45 / 19.00 / 19.15 h From Mühlenhof to castle departure at 22.00 / 22.45 / 23.00 h		

SHORT LECTURE SESSION 5A

Plant Phenols: Structures, Analytics and Activities



WEDNESDAY, SEPTEMBER 4, 14:55 – 16:10, LECTURE HALL 1

	Chair: Dr. Jandirk Sendker , Münster, Germany
14:55 – 15:10	SL49 Catechol is a bioactive metabolite of Willow bark. <i>Knuth S, Abdelsalam RM, Khayyal MT, Schweda F, Heilmann J, Kees MG, Mair G, Kees F, Jürgenliemk G</i>
15:10 – 15:25	SL50 Neurogenesis-inducing flavonoids: A structure-activity study. <i>Urmann C, Oberbauer E, Aigner L, Riepl H</i>
15:25 – 15:40	SL51 Sub-lethal concentrations of carvacrol (from oregano) inhibit bacterial quorum sensing and formation of biofilms. <i>Ojo-Fakunle VT, Woertman J, Veldhuizen EJ, Burt SA</i>
15:40 – 15:55	SL52 Influence of gut flora-derived ellagitannins' metabolites- urolithins on production and release of pro-inflammatory factors from stimulated neutrophils in the context of cardiovascular disease prevention. <i>Piwowski JP, Granica S, Kiss AK</i>
15:55 – 16:10	SL53 Chemical and biological similarities between root extracts from Phak paem (<i>Acanthopanax trifoliatum</i>) and Siberian ginseng (<i>Acanthopanax senticosus</i>). <i>Sithisarn P, Jarikasem S, Muensaen S</i>

SHORT LECTURE SESSION 5B

Animal Health Care and Veterinary Medicine

WEDNESDAY, SEPTEMBER 4, 14:55 – 15:40, LECTURE HALL 2

	Chair: Prof. Dr. Michael Heinrich , University College London, United Kingdom
14:55 – 15:10	SL65 Extracts of ethnoveterinary plants used to control myiasis caused by blowflies in animals are effective in several mechanisms and may have valuable practical applications. <i>Eloff JN, Mukandiwa L, Naidoo V</i>
15:10 – 15:25	SL66 New forms of vitamin D for animal and human health from plant origin. <i>Glatthaar BE, Bachmann H</i>
15:25 – 15:40	SL67 Sainfoin – new data on anthelmintic effects and production in sheep and goats. <i>Heckendorn F, Werne S, Maurer V, Perler E, Amsler Z, Probst J, Zaugg C, Krenmeyer I</i>



SHORT LECTURE SESSION 5C

Miscellaneous

WEDNESDAY, SEPTEMBER 4, 14:55 – 15:55, LECTURE HALL 3

	Chair: Prof. Dr. Anna Rita Bilia , Florence, Italy
14:55 – 15:10	SL76 Identification of a MYR11 myrosinase gene in horseradish (<i>Armoracia rusticana</i>), expression in <i>Pichia pastoris</i> and characterization of the recombinant enzyme. <i>Loebers A, Kreis W</i>
15:10 – 15:25	SL77 Discovery of an alliinase association with a legumin-like storage protein in <i>Allium</i> species subgenus <i>Melanocrommyum</i> . <i>Mielke M, Keusgen M</i>
15:25 – 15:40	SL78 Biochemical fingerprinting of endophytes harbored in <i>Radula marginata</i> that confer plant fitness benefits. <i>Kusari P, Kusari S, Spiteller M, Kayser O</i>
15:40 – 15:55	SL79 Introduction of qNMR to the Japanese Pharmacopoeia (JP) for specification of marker compounds used for standardization of herbal medicines. <i>Goda Y</i>

SHORT LECTURE SESSION 5D

Natural Product Chemistry 5

WEDNESDAY, SEPTEMBER 4, 14:55 – 15:40, LECTURE HALL 4

	Chair: Prof. Dr. Rudolf Bauer , Graz, Austria
14:55 – 15:10	SL45 Meliaceae plants and vector control of malaria: Larvicidal studies of <i>Ekebergia senegalensis</i> A Juss and <i>Cedrela odorata</i> Linn. <i>Chukwuma OC</i>
15:10 – 15:25	SL46 Scaled up countercurrent chromatography separation of secondary metabolites from <i>Schinus terebinthifolius</i> Raddi. <i>Costa FD, Vieira MN, Leitão GG, Garrard I, Ignatova S, Winterhalter P, Jerz G</i>
15:25 – 15:40	SL47 Melanogenesis acceleratory activity of synthesized quercetin derivatives and the structure activity relationships. <i>Yamauchi K, Mitsunaga T</i>



POSTER PRESENTATIONS

Monday, September 2, 2013

Poster area A

- PA1-PA41** Natural products against neglected diseases
PF1-PF13 Ethnopharmacology of Amazonian medicine
PJ1-PJ57 Plant phenolics- structure analytics and activities

Poster area B

- PK1-PK49** Quality control of herbal medicines
PL1-PL25 Herbal medicinal products in veterinary medicine
PM1-PM11 Metabolic pathway engineering

Tuesday, September 3, 2013

Poster area A

- PG1-PG7** Computational methods in natural products chemistry
PH1-PH13 Hyphenated analytical techniques
PI1-PI115 Natural product chemistry
PE1-PE39 Ethnopharmacology of African medicine

Poster area B

- PO1-PO(n)** Late posters

Wednesday, September 4, 2013

Poster area B

- PB1-PB49** In vivo phytopharmacology
PC1-PC18 Skin active natural products

Poster area A

- PD1-PD7** Glycobiology
PN1-PN124 Miscellaneous

THE CONGRESS SECRETARIAT / LOCAL ORGANIZERS



Prof. Dr. Andreas Hensel

Prof. Dr. Thomas J. Schmidt

University of Münster
Institute of Pharmaceutical Biology and Phytochemistry
Corrensstrasse 48
48149 Münster, Germany

Phone: + 49 251 83 33380

Fax: + 49 251 83 38341

E-mail: ga2013@wwu.de

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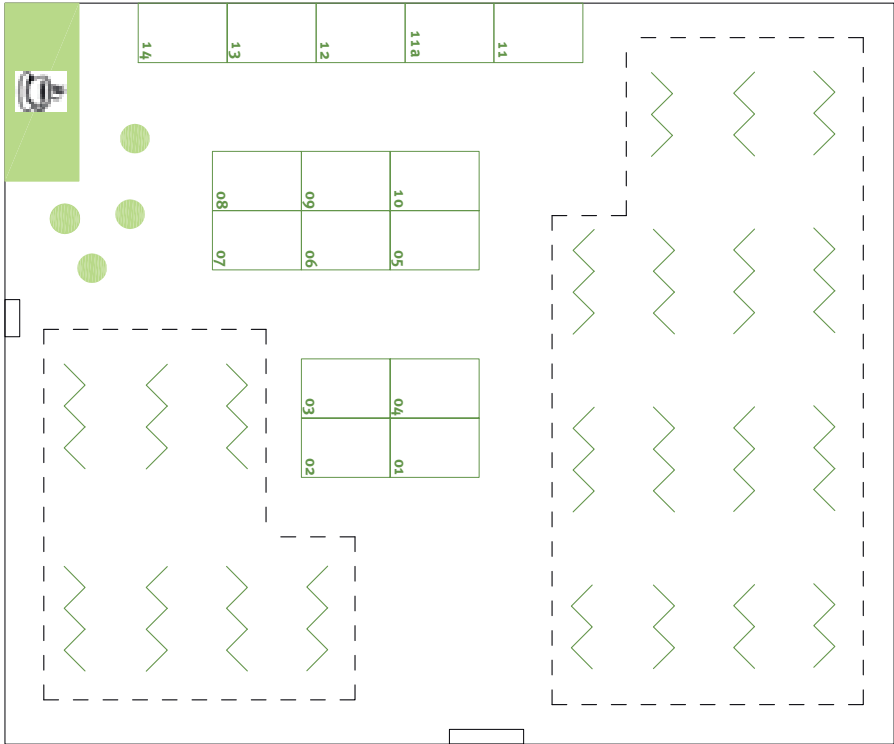


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Company	City	Country	Booth
Bruker Daltonik GmbH	Bremen	Germany	01
BÜCHI Labortechnik GmbH	Essen	Germany	05
CAMAG AG + Co. GmbH	Berlin	Germany	08
CAS	Columbus	USA	14
CONVIDIA clinical research GmbH	Münster	Germany	10
CRC Press – Taylor & Francis Group	Oxford	United Kingdom	09
Grace discovery sciences	Worms	Germany	13
Grant Instruments Ltd.	Shepreth	United Kingdom	04
INDENA S.p.A.	Mailand (MI)	Italy	11
numares GROUP	Regensburg	Germany	07
PARLAR GmbH	Freising	Germany	11a
Quiris Healthcare GmbH & Co. KG	Gütersloh	Germany	03
Thermo Fisher Scientific	Dreieich	Germany	06
Waters GmbH	Eschborn	Germany	02
Wiley	Weinheim	Germany	12

Status of July 12, 2013

EXHIBITION AND POSTER OVERVIEW



Poster Exhibition B

Poster Exhibition A

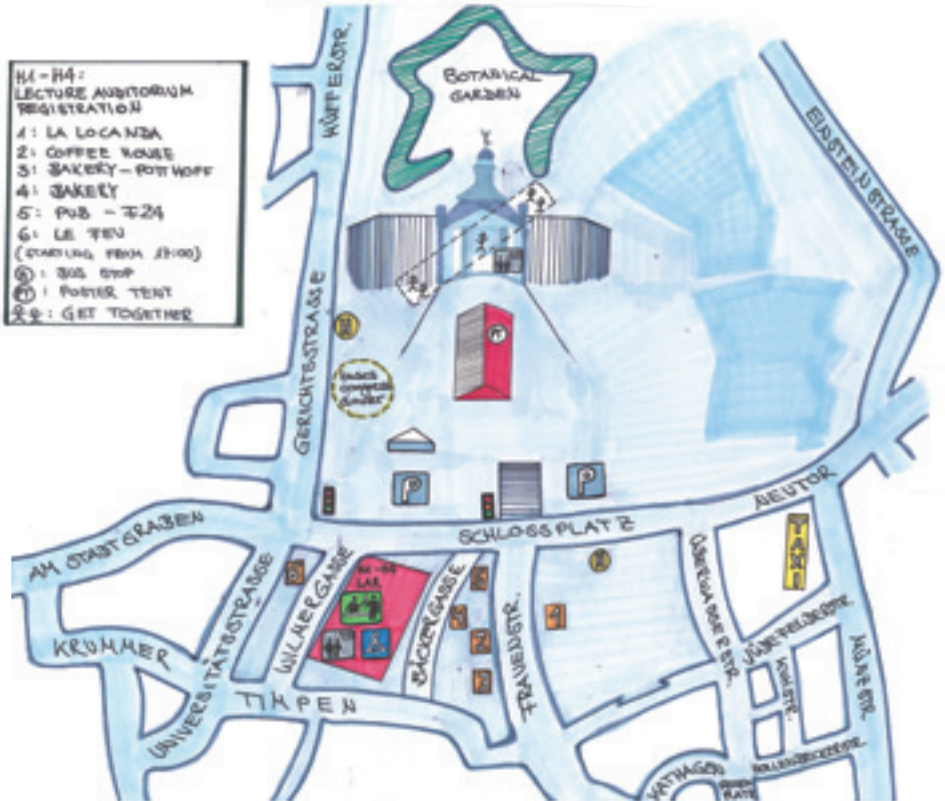
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Entrance

Subject to change





CITY MAP OF CONFERENCE SURROUNDINGS



Drawing: Annika Schnieders, IPBP Münster





Abstracts

All abstracts are published in the journal *Planta Medica* that is included in the congress bags.

Public Transport

With your name badge you are allowed to use the public transport for free in Münster. Please show your name badge when asked for a ticket.

Speaker Preview Room

The Speaker Preview Room is located in the basement of the Lecture Auditorium

Opening hours are:

Sunday, September 1: 12.00 – 18.00 h
Monday, September 2: 7.30 – 16.00 h
Tuesday, September 3: 8.00 – 17.00 h
Wednesday, September 4: 8.00 – 15.00 h

Surrounding

In the surrounding of the Lecture Auditorium and the Münster Castle you will find different possibilities to get lunch. Please see the map on page 28 for some hints.

Please note that many streets in Münster are built of cobble stone pavement.

Wardrobe

A wardrobe is located in the Lecture Auditorium. It is free of charge for all participants. The organizer does assume no liability.

Opening hours are:

Sunday, September 1: 12.00 – 19.30 h
Monday, September 2: 7.30 – 20.30 h
Tuesday, September 3: 8.00 – 20.45 h
Wednesday, September 4: 8.00 – 17.30 h

WLAN

Wireless Lan is available in the Lecture Auditorium and in the Münster Castle. Access codes are available at the registration desk in the Lecture Auditorium.