REGISTRATION

EDAR-3 • 17–21 May 2015 • Wernigerode (Germany)

Please send this form via fax to +49 3641 31 16-243 via email to registration@conventus.de, or via mail to Conventus GmbH Carl-Pulfrich-Strasse 1 • 07745 Jena (Germany). Online registration at www.antibiotic-resistance.de is preferred. For questions please call +49 3641 31 16-160.

Personal Details (please print in block letters)

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Registration (please check)

Welcome Reception, conference participant in				
The number of participants will be limited – please register early.				
PhD, Pensioner *	265 EUR	325 EUR		
Regular	375 EUR	425 EUR		
Fees	until 17 February 2015	from 18 February 2015		

Welcome	Reception,	accompanying	person

number of participants

Social Evening

number of participants

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Payment

Bank Transfer

Upon receipt of invoice the total amount should be transferred to the conference bank account with reference to your name and invoice number.

Payment by credit card is only possible with online registration.

Signature** Date

By signing I agree to the General Terms and Conditions and the rules of cancellation on the conference website found in the imprint

GENERAL INFORMATION

Venue

HKK Hotel Wernigerode, Harzer Kultur- und Kongresshotel Pfarrstrasse 41 • 38855 Wernigerode (Germany)

Date

17-21 May 2015

Conference Homepage

www.antibiotic-resistance.de

Conference Chair

Kornelia Smalla Julius Kühn-Institut, Federal Research Centre for Cultivated Plants (JKI) Institute for Epidemiology and Pathogen Diagnostics Braunschweig, Germany

International Scientific Committee

Kristian Brandt, Denmark Will Gaze, United Kingdom Joakim Larsson, Sweden Amy Pruden, United States Pascal Simonet, France Kornelia Smalla, Germany

James Tiedje, United States Ed Topp, Canada Elizabeth M. H. Wellington, United Kingdom Yong-Guan Zhu, China

Professional Congress Organizer

Conventus Congressmanagement & Marketing GmbH Claudia Tonn/Anne Brüche Phone: +49 3641 31 16-374 • Fax +49 3641 31 16-243 edar@conventus.de • www.conventus.de

Scientific Sponsors

15 EUR

50 EUR



Recommendation Social Program

To make your visit to Wernigerode even more impressive, on our congress homepage www.antibiotic-resistance.de we propose a selection of sights, castles and parks to explore while you are in the city. If you have any questions or need assistance, please do not hesitate to contact us.



EDAR 3

3rd INTERNATIONAL SYMPOSIUM ON THE ENVIRONMENTAL DIMENSION OF ANTIBIOTIC RESISTANCE

17-21 May 2015 WERNIGERODE • GERMANY





www.antibiotic-resistance.de

WELCOME NOTE



Dear colleagues,

The increasing problems with multiple resistant pathogens led to a critical discussion of the anthropogenic use of antibiotics worldwide.

The widespread and continued global growth in antibiotics consumption is the driver of antibiotic resistance, and identification of the factors fostering the dissemination of transferable antibiotic resistances is needed to determine effective interventions. The 3rd symposium on the Environmental Dimension of Antibiotic Resistance (EDAR-3) will focus on effects of anthropogenic use of antibiotics on the microbiomes in various ecosystems and the implications for human health.

Recent discoveries using omics technologies have provided not only new insights into the natural reservoirs of antibiotic resistances but also into their broader roles in an organism and for community function. The fate of antibiotics in environmental compartments such as aquatic or agroecosystems will be discussed regarding short- and long-term effects, in particular on resistance development and dissemination.

The aim is an improved qualitative and quantitative understanding of the processes involved, such as antibiotic selection, co-selection by metals or other agents, and the role of the bacterial mobilome to provide a basis for the discussion of regulatory considerations and management options and to identify possible limitations and research needs. The development of technologies and management options to reduce environmental pollution by antibiotics and resistance determinants from, e.g. sewage or production sites might contribute to avoid negative impacts on the environment.

We hope that you will join EDAR-3 to discuss the most recent research results and their implications for human health and look forward to welcoming you in Wernigerode, 17–21 May 2015.

Loruelia Smalla

Kornelia Smalla Conference chair Julius Kühn-Institut

SCIENTIFIC PROGRAM • SUNDAY, 17 MAY 2015

- Kornelia Smalla, Germany
- 17³⁰–18⁰⁵ **Opening: Antibiotics at sub-inhibitory concentrations** Fernando Baquero, Spain

18³⁰–20⁰⁰ Welcome reception

SCIENTIFIC PROGRAM • MONDAY, 18 MAY 2015

Session I: Evolution of antibiotic resistance 08³⁰–10⁰⁵ Phylogenomic transduction networks reveal genetic barriers for phage-mediated lateral gene transfer Tal Dagan, Germany oral presentations* 10⁰⁵–10³⁵ **Coffee break** Session II: Mobilizing antibiotic resistance genes through anthropogenic use of antibiotics Role of integrons in spreading antibiotic resistance 1035-1240 Michael Gillings, Australia oral presentations* 12⁴⁰–14⁰⁰ Lunch break 1400-1700 Session II continued 1700–1900 **Posters 1** SCIENTIFIC PROGRAM • TUESDAY, 19 MAY 2015 Session III: Molecular studies reveal links between the hospital and

the environment 0830-1005 Antibiotic resistance in the environment – A link to the clinic? Gerry Wright, Canada oral presentations* 10⁰⁵–10³⁵ Coffee break Session IV: Fate and effects of antibiotics in agro-ecosystems 10³⁵–12⁴⁰ Antibiotic resistance gene discovery in the swine intestinal microbiome Heather Allen, United States Fate and effects of veterinary medicines in soil Jan Siemens, Germany Lunch break 1240-1400 Antibiotics in crop production 1400-1630 Fiona Walsh, Ireland Resistome and mobilome of fresh produce – the missing link Ed Topp, Canada oral presentations* 1700–1900 Posters 2

SCIENTIFIC PROGRAM • WEDNESDAY, 20 MAY 2015

	Session V:	Dissemination of antibiotics and antibiotic resistance genes
		through aquatic ecosystems/sewage treatment plants
	0830-1005	Contribution of the bacterial mobilome to the spread
		of antibiotic resistance in river water
		Elizabeth Wellington, United Kingdom
		Transferable antibiotic resistance in rivers and estuaries
		Isabel Henriques, Portugal
		oral presentations*
	1005-1035	Coffee break
	1035-1240	Antibiotic resistance genes in an urbanizing watershed
		Yong-Guan Zhu, China
		Antibiotic resistance genes in sewage and related
		water environment
		Tong Zhang, China
		oral presentations*
	1240-1400	Lunch break
	1400-1600	Accumulation of antibiotic resistance genes and mobile
		genetic elements in soils irrigated with untreated water
=		Elisabeth Grohmann, Germany
		oral presentations*
		Environmental pollution from antibiotic manufac-
		turing creates hotspots for resistance development
		Joakim Larsson, Sweden
		oral presentations*
	16 ³⁰ -19 ⁰⁰	Social tour
	1900	Social evening
	SCIENTIFI	C PROGRAM • THURSDAY, 21 MAY 2015

Session VI:	Mitigation strategies and how to evaluate them
	(Round table and discussion groups)
0900-1100	Mitigation strategies for environmental sources of
	antibiotic resistance
	Amy Pruden, United States
	oral presentations*
11 ³⁰ –12 ¹⁵	Closing lecture: Sum-up of the symposium, research
	needs and policy recommendation
	Jim Tiedje, United States
12 ¹⁵	Farewell and announcements

*oral presentations selected from submitted abstracts