



12th International Symposium on the Biology of *Acinetobacter*

Programme *Acinetobacter* 2019

September 4 - 6, 2019
Frankfurt, Germany

Goethe University Frankfurt
Otto-Stern-Zentrum, lecture hall H2
Ruth-Moufang-Straße 2
60438 Frankfurt/Main



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Welcome



The International Symposium on the Biology of *Acinetobacter* brings together medical and non-medical microbiologists as well as clinicians from all over the world to discuss the recent advances in *Acinetobacter* research, exchange new ideas and develop new relationships. An important focus is to promote students and young scientists to discuss their data and exchange knowledge. The major topics addressed during the current conference include population genetics and evolution, pathogenicity mechanisms, antibiotic resistance, genetics and regulation of infection, metabolism and regulation, adaptation and persistence, epidemiology and new therapeutic approaches.

The 12th International Symposium on the Biology of *Acinetobacter* 2019 will be held in Frankfurt, Germany, the home of Johann Wolfgang von Goethe, a global finance and market place with its unique style reflected by the museums on the river Main banks and the bold high-rise architecture as well as local dishes such as Grüne Soße, Ebbelwei and Frankfurter sausages.

We welcome you to join the 'Acinetobacter family' in Frankfurt and hope you will enjoy an exciting meeting.

Welcome to Frankfurt!

Yours,

A handwritten signature in blue ink, appearing to read 'B. Averhoff', with a stylized flourish at the end.

Beate Averhoff,
Conference Chair

Scientific Advisory Board

Beate Averhoff (Germany)

Emmanuelle Dé (France)

Mario Feldman (USA)

Volker Müller (Germany)

Ellen Neidle (USA)

Spyros Pournaras (Greece)

Jerónimo Pachón (Spain)

Harald Seifert (Germany)

Jordi Vila (Spain)

Paolo Visca (Italy)



Scientific Programme

Wednesday, September 4, 2019

14.00 - 16.00 Registration

OPENING CEREMONY

16.00 **Introduction and Welcome**
Beate Averhoff (Frankfurt, Germany)

16.30 **Opening Lecture**
Acinetobacter baumannii: from the clinical management to the non-antimicrobial approaches
Jéronimo Pachón (Sevilla, Spain)

SESSION 1: POPULATION GENETICS, EVOLUTION AND COMPARATIVE GENOMICS

Chair Ellen Neidle (Athens, GA, USA)
Laurent Poirel (Fribourg, Switzerland)

17.00 **Keynote Lecture 1**
Tracking lineages of extensively antibiotic resistant GC1 and GC2 *A. baumannii*
Ruth Hall (Sydney, Australia)

17.30 - 18.30 **Oral communications**

17.30 **01 - 1**
Allelic variation of *pmrCAB* operon is associated with *A. baumannii* international clonal lineages and represents a genomic recombination site
Carolina S. Nodari (São Paulo, Brazil),
R. Cayô, A.P. Streling, S. Gerson, J. Wille, H. Seifert, A.C. Gales, P.G. Higgins

Scientific Programme

Wednesday, September 4, 2019

- 17.45
01 - 2 The evolutionary trajectory of *Acinetobacter*
pathobiology
Bardya Djahanschiri (Frankfurt, Germany),
R. Iruegas, M. Männl, S. Göttig, I. Ebersberger
- 18.00
01 - 3 Structure and evolution of *A. baumannii* plasmids
Miguel A. Cevallos (Cuernavaca, Mexiko),
A.D. Salgado-Camargo, S. Castro-Jaimes,
R.M. Gutierrez-Ríos, L.F. Lozano, L. Altamirano-
Pacheco, J. Silva-Sanchez, Á. Pérez-Oseguera,
P. Volkow, S. Castillo-Ramirez
- 18.15
01 - 4 DNA single-strands cause microindel mutations
Klaus Harms (Tromsø, Norway),
M.M. Liljegren, P.J. Johnsen
- 18.30 **Welcome Reception**

Scientific Programme

Thursday, September 5, 2019

SESSION 2: INSIGHTS INTO ACINETOBACTER BAUMANNII VIRULENCE AND PATHOGENICITY

Chair Jerónimo Pachón (Seville, Spain)
Jordi Vila (Barcelona, Spain)

09.00 **Keynote Lecture 2**
Iron and *Acinetobacter baumannii* pathogenicity
Paolo Visca (Rome, Italy)

09.30 - 10.30 **Oral communications**

09.30 **02 - 1**
Impact of the *Acinetobacter* trimeric autotransporter adhesin Ata on pathogenicity of *A. baumannii* and the host cell response
Sonali Wohra (Frankfurt, Germany),
L. Leukert, M. Weidensdorfer, I. Wittig, P. Kraiczky,
V.A.J. Kempf, S. Göttig

09.45 **02 - 2**
The *A. baumannii* outer membrane protein CarO exhibits virulence factor roles in a murine infection model
Gema Labrador-Herrera (Seville, Spain), T. Cebrero-Cangueiro, Y. Smani, J. Pachón, A.M. Viale, J. Morán-Barrio, M.E. Pachón-Ibáñez

10.00 **02 - 3**
CpaA, a novel secreted protease of *Acinetobacter* spp., targets host glycoproteins
M. Florencia Haurat (St. Louis, MO, USA),
R.L. Kinsella, D. Urusova, N.H. Tolia, M.F. Feldman

Scientific Programme

Thursday, September 5, 2019

10.15
02 - 4 Potential mechanisms of mucin-enhanced
A. baumannii virulence in the mouse model of
intra-peritoneal infection

Wangxue Chen (Ottawa, Canada), G. Harris,
B.E. Holbein, H.H. Xu, H. Zhou

10.30 - 11.00 **Coffee Break**

SESSION 3: EMERGENCE AND GENETICS OF ANTIBIOTIC RESISTANCE

Chair Harald Seifert (Cologne, Germany)
Spyros Pournaras (Athens, Germany)

11.00 **Keynote Lecture 3**
Role of rapid diagnostics in prevention and
control of multidrug-resistant *Acinetobacter*
Laurent Poirel (Fribourg, Switzerland)

11.30 - 12.30 **Oral communications**

11.30
03 - 1 Emergence of colistin resistance among
carbapenemase-producing *A. baumannii* clinical
isolates from Egypt

Nevine S. Fam (Giza, Egypt), S.H. Mohamed, D. Gamal,
R.M. Wasfy, M. Sherif, P.G. Higgins, A.A. El-Kholy

11.45
03 - 2 Characterization of induced antibiotic tolerance
in *A. baumannii*

Michaëlle Chojnacki (Rochester, NY, USA),
C. Blanchard, A. Jacobs, D. Flaherty, P. Dunman

Scientific Programme

Thursday, September 5, 2019

12.00
03 - 3 Comparative characteristics of OXA-23/IC2, OXA-23/IC1, OXA-58/IC1 and OXA-58/IC2 carbapenem-resistant *A. baumannii*
S. Vourli, P.G. Higgins, F. Runci, M. Machado, K. Dafopoulou, I. Artuso, J. Rossen, J.A. Carrico, J. Moran-Gilad, A. Tsakris, A.W. Friedrich, R. Zarrilli, H. Seifert, P. Visca, **Spyros Pournaras** (Athens, Greece)

12.15
03 - 4 Evolution towards increased carbapenemase activity in OXA-51-like beta-lactamases of *A. baumannii*
Y. Takebayashi, J. Findlay, K.J. Heesom, M.B. Avison, P.J. Warburton, **Benjamin A. Evans** (Cambridge, USA)

12.30 - 13.30 **Lunch**

13.30 - 14.30 **Poster Session 1 (Topics 2 - 5)**

SESSION 4: GENETICS AND REGULATION OF INFECTION

Chair Paolo Visca (Rome, Italy)
Mario Feldman (Saint Louis, MO, USA)

14.30 **Keynote Lecture 4**
Regulation of a virulence switch in *A. baumannii*
Phil Rather (Atlanta, GA, USA)

Scientific Programme

Thursday, September 5, 2019

15.00 - 16.00 **Oral communications**

15.00
04 - 1 Characterisation of antimicrobial resistance and virulence phenotypes in two-component system mutants from AB5075

Marta Mari-Almirall (Barcelona, Spain),
C. Cosgaya, I. Roca, J. Vila

15.15
04 - 2 *A. baumannii* phenotypic variation in response to DNA damage is mediated by a 5'UTR recognized in *Bacillus subtilis*

C. Ching, Q. Shen, Y. Chai, **Veronica G. Godoy-Carter** (Boston, MA, USA)

15.30
04 - 3 Interplay between the RND pump AdeIJK and transcriptional regulator AdeN impacts the antibiotic resistance and virulence of *A. baumannii*

R. Patidar, **Ayush Kumar** (Winnipeg/MB, Canada)

15.45
04 - 4 Identification of the diversity of *A. baumannii* type VI secretion system effectors and characterisation of a novel effector/immunity pair

J.M. Lewis, D. Deveson Lucas, M. Harper, **John D. Boyce** (Melbourne, Australia)

16.00 - 16.30 **Coffee Break**

Scientific Programme

Thursday, September 5, 2019

SESSION 5: METABOLISM AND REGULATION

Chair Kevin Towner (Nottingham, UK)
Emmanuelle Dé (Mont-Saint-Aignan, France)

16.30 **Keynote Lecture 5**
Laboratory evolution made EASy: expanding
metabolism in *A. baylyi* ADP1
Ellen Neidle (Athens, GA, USA)

17.00 - 18.00 **Oral communications**

17.00
05 - 1 Metabolic engineering of *A. baylyi* ADP1 for
upgrading non-conventional substrates
Suvi Santala (Tampere, Finland), J. Lua, V. Santala

17.15
05 - 2 A regulator discovered to enhance lignin
valorization by *A. baylyi* ADP1 affects switching
between virulent and avirulent states of
A. baumannii AB5075
Emily A. McIntyre (Athens, GA, USA), P.N. Rather,
E.L. Neidle

17.30
05 - 3 Molecular regulation of *A. baumannii* biofilm
formation
Brooke R. Tomlinson (Tampa, FL, USA),
G.A. Denham, L.N. Shaw

Scientific Programme

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- 17.45
05 - 4 Adaptation of *A. baumannii* to the human host
and to osmotic stress
Jennifer Breisch (Frankfurt, Germany), B. Averhoff
- 18.30 **Buses depart from the Biologicum for
Conference Dinner**
- 19.00 **Conference Dinner**

Friday, September 6, 2019

SESSION 6: ADAPTATION AND PERSISTENCE

- Chair Phil Rather (Atlanta, GA, USA)
Klaas Martinus Pos (Frankfurt, Germany)
- 09.00 **Keynote Lecture 6**
Dry and salty: how *Acinetobacter* copes with low
water stress
Volker Müller (Frankfurt, Germany)
- 09.30 - 10.30 **Oral communications**
- 09.30
06 - 1 Structure of the osmotic stress protein MtID from
A. baumannii
Heng-Keat Tam (Frankfurt, Germany), N.D. Ngu,
S. Himpich, A. Herrmann, V. Müller, K.M. Pos

Scientific Programme

Friday, September 6, 2019

- 09.45
06 - 2 Molecular basis for desiccation tolerance in *A. baumannii*
Y. Oda, H.K. Huse, M.M. Shapiro, N.M. Lewis, X. Zhong, J.E. Bruce, C. Manoil,
Caroline S. Harwood (Seattle, WA, USA)
- 10.00
06 - 3 Molecular insights into the mechanisms that define the lipidomic landscape of *A. baumannii* under membrane stress
J.-H. Jiang, F.G. Adams, M. Zhang, M. Khorvash, S.L. Begg, T.W.T. Rupasinghe, V. Naidu, V.G. Pedereick, J.J. Whittall, J.C. Paton, I.T. Paulsen, K.A. Hassan, C.A. McDevitt, A.Y. Peleg,
Bart A. Eijkelkamp (Adelaide, Australia)
- 10.15
06 - 4 Natural transformation promotes horizontal transfer of large antibiotic resistance islands in *A. baumannii*
M.-H. Laaberki, A.-S. Godeux, A. Lupo, M. Haenni,
Xavier Charpentier (Villeurbanne, France)
- 10.30 - 11.00 **Coffee Break**

SESSION 7: GLOBAL AND LOCAL EPIDEMIOLOGY OF ACINETOBACTER

- Chair Ruth Hall (Sydney, Australia)
Stephan Göttig (Frankfurt, Germany)

Scientific Programme

Friday, September 6, 2019

- 11.00 **Keynote Lecture 7**
Molecular epidemiology of clinical, animal, and environmental isolates of *A. baumannii*
Paul Higgins (Cologne, Germany)
- 11.30 - 12.30 **Oral communications**
- 11.30 *Acinetobacter baumannii* - jet stream rider
07 - 1 **Gottfried Wilharm** (Wernigerode, Germany),
E. Skiebe, A. Łopińska, K. Weber, K. Görlitz,
G. Meimers, M. Kasprzak, M. Bochenski,
M. Tobółka, J. Siekiera, C. Schaudinn, T. Semmler,
L. Jerzak
- 11.45 Resistome and genomic epidemiology of
07 - 2 *Acinetobacter* spp. and *A. baumannii* isolated from
the natural non-hospital environment
Soon Keong Wee (Singapore), S.P. Sivalingam,
S.B. Mustaffa, C.P. Loh, E.P.H. Yap
- 12.00 Poly-clonal dissemination of *A. baumannii* in
07 - 3 Egyptian hospitals
Leena Al-Hassan (Brighton, UK)
- 12.15 Antibiotic resistance features and molecular
07 - 4 epidemiology of *A. baumannii* clinical isolates from
Pakistan
Nabil Karah (Umea, Sweden), I. Ahmad, F. Khalid,
S.N. Wai, B.E. Uhlin

Scientific Programme

Friday, September 6, 2019

12.30 - 13.30 **Lunch**

13.30 - 14.30 **Poster Session 2 (Topics 1, 6 - 8)**

SESSION 8: NEW THERAPEUTIC APPROACHES

Chair Paul Higgins (Cologne, Germany)
Volkhard Kempf (Frankfurt, Germany)

14.30 **Keynote Lecture 8**
Future alternatives to treat infections caused by
A. baumannii
Jordi Vila (Barcelona, Spain)

15.00 - 16.00 **Oral communications**

15.00
08 - 1 Elucidating mechanisms of colistin resistance and
the efficacy of combination therapy in MDR/XDR/
PDR *A. baumannii*
A.A. Fayad, D. Abdulghani, W. Bazzi, G.F. Araj,
Ghassan M. Matar (Beirut, Lebanon)

15.15
08 - 2 A genetic strategy to identify promising
Acinetobacter antibiotic targets
L. Gallagher, J. Bailey, **Colin Manoil**
(Seattle, WA, USA)

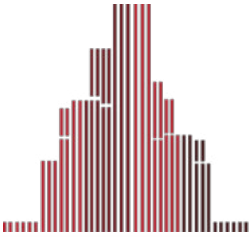
Scientific Programme

Friday, September 6, 2019

- 15.30
08 - 3 Genetics of *A. baumannii* surface polysaccharides reveals insights into cell surface diversity useful for epidemiology and therapeutics research
S.M. Cahill, K.L. Wyres, K.E. Holt, R.M. Hall,
Johanna J. Kenyon (Brisbane, Australia)
- 15.45
08 - 4 Artilysin® - the ingenious way to control bacteria
Martin Griebel (Regensburg, Germany)
- 16.00
End of Symposium and Farewell
Beate Averhoff



ACINETOBACTER 2019
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ON THE BIOLOGY OF ACINETOBACTER
SEPTEMBER 4-6 | FRANKFURT, GERMANY



Poster Sessions

Poster Session

Poster Session I, Thursday 5, 13.30 - 14.30

P2 INSIGHTS INTO *ACINETOBACTER BAUMANNII* VIRULENCE AND PATHOGENICITY

- P2-1** Fatal attraction: *Acinetobacter baumannii* exploits carcinoembryonic antigen-related cell adhesion molecules (CEACAMs) for cellular adherence
D. Scribano, M. Sarshar, C. Zagaglia, A.T. Palamara, B.B. Singer, C. Ambrosi (Italy)
- P2-2** Outer membrane protein biogenesis in *Acinetobacter baumannii*: links to virulence and drug resistance
K. Leibiger (Germany), I. Autenrieth, M. Schütz
- P2-3** Comparison between intranasal inoculation, intratracheal instillation and oropharyngeal aspiration techniques in inducing pneumonia in mice with *A. baumannii* MDR strains
G. Bergamini (Italy), M.E. Perico, R. Defazio, S. Di Palma, A. Felici, L. Ferrari
- P2-4** Canceled
- P2-5** Female mice have impaired control of *A. baumannii* induced pneumonia that is aggravated in the absence of alveolar macrophages
S. Pires, D. Parker (USA)
- P2-6** Imaging of bioluminescent *A. baumannii* in a mouse pneumonia model
M.H. Oh, S.H. Na, M. Shin, J.C. Lee (Korea)

Poster Session

Poster Session I, Thursday 5, 13.30 - 14.30

- P2-7** Microevolution in the major outer membrane protein OmpA of *Acinetobacter baumannii*
A.M. Viale, B.A. Evans (UK)
- P2-8** Adhesions of *Acinetobacter baumannii* to immune cells trigger inflammation responses
T. Kikuchi-Ueda (Japan), G. Kamoshida, Y. Ono
- P2-9** Recruitment of complement regulators by biofilm-producing *Acinetobacter baumannii*
T. Daume, M. Müsken, S. Häußler, T.A. Wichelhaus, S. Göttig, P. Kraiczky (Germany)
- P2-10** Role of the acinetobactin cluster of *A. baumannii* ATCC 17978 in virulence
K. Conde-Pérez (Spain), J.C. Vázquez-Ucha, L. Álvarez-Fraga, M. Martínez-Gutián, L. Ageitos-Castiñeiras, C. Jiménez-González, J. Rodríguez-González, G. Bou, M. Poza, A. Beceiro
- P2-11** Highly pathogenic multidrug-resistant *A. baumannii* and experimental treatment with the fourth-generation cephalosporin ceftazidime
S. Nishida (Japan), Y. Ono

Poster Session

Poster Session I, Thursday 5, 13.30 - 14.30

P3 EMERGENCE AND GENETICS OF ANTIBIOTIC RESISTANCE

- P3-1** The Arg165-to-Pro substitution in PmrB in colistin-resistant *Acinetobacter baumannii*
U. Singkham-in (Thailand), D.L. Wannigama, T. Chayanapiboon, T. Chatsuwan
- P3-2** Global transcriptional profiles in RND efflux pump mutants
K. Mettrick (Australia), I. Paulsen, K. Hassan
- P3-3** Unusual occurrence of plasmid-mediated *bla*_{VIM-4} carbapenemase in *Acinetobacter pittii*
J.B. Vuillemenot (France), M. Bour, P. Plésiat, A. Potron
- P3-4** The novel resistance mechanism of tigecycline in *Acinetobacter baumannii*
X. Hua (China), J. He, Y. Yu
- P3-5** Detection of active pairs of XerC/D recognition sites mediating fusions and inversions in *A. baumannii* plasmids carrying OXA-58 carbapenemase adaptive modules
M.M. Cameranesi, J. Morán-Barrio, A.S. Limansky, G.D. Repizo, **A.M. Viale (Argentina)**
- P3-6** Canceled
- P3-7** First report of a pan-drug resistant *A. baumannii* ST15 recovered from catheter-related bloodstream infection
M.S. Bueno, T.A.F. Barcellos, A.M.J. Bertani, C.A. Santos, M.P.V. Cunha, E. Carvalho, E.H. Takagi, E. Chimara, M.P. Freire, M.R.T. Casas, **C.H. Camargo (Brazil)**

Poster Session

Poster Session I, Thursday 5, 13.30 - 14.30

- P3-8** Emergence of polymyxin resistance among clinical isolates of multi-drug resistant *A. baumannii* ST25 from Brazil
T.A.F. Barcellos, M.S. Bueno, C.A. Santos, A.M.J. Bertani, M.P.V. Cunha, E. Carvalho, E.H. Takagi, E. Chimara, M.R.T. Casas, C.H. Camargo (Brazil)
- P3-9** Plasmid content of a clinical IC4 *Acinetobacter baumannii* isolate from Bolivia
M. Cerezales, K. Xanthopoulou (Germany), J. Wille, O. Krut, Z. Bustamante, H. Seifert, L. Gallego, P.G. Higgins
- P3-10** Investigation of the contribution of a putative mobilization gene to the dissemination of an OXA-231 encoding plasmid in *Acinetobacter baumannii*
K. Xanthopoulou (Germany), K. Lucaßen, J. Wille, T. Wille, H. Seifert, P.G. Higgins
- P3-11** Association of overexpression of *abeM* efflux pump gene with antibiotic resistance in *Acinetobacter baumannii* strains clinically isolated from a tertiary hospital
H.J. Kim (Korea), J. Kim, Q. Choi, G.C. Kwon, S.H. Koo
- P3-12** Novel *pmrB* mutations of laboratory-evolved and clinical *Acinetobacter baumannii* isolates
M. Kim (Korea), J. Park, B. Shin, W. Park
- P3-13** Overproduction of outer membrane vesicles in laboratory-evolved *Acinetobacter baumannii*
J. Park (Korea), M. Kim, B. Shin, W. Park

Poster Session

Poster Session I, Thursday 5, 13.30 - 14.30

P3-14 Colistin resistance in *Acinetobacter baumannii* is associated with the StkR two-component system

S.K. Giles, U.H. Stroehler, **M.H. Brown (Australia)**

P3-15 Investigating the contribution of RND-type efflux pump AdeABC to carbapenem resistance in *Acinetobacter baumannii* ATCC 19606

C. Meyer (Germany), K. Lucaßen, K. Xanthopoulou, T. Wille, H. Seifert, P.G. Higgins

P3-16 Resistance to sulbactam-durlobactam in clinical isolates of *Acinetobacter baumannii* is rare and maps to PBP3

S.H. Moussa (USA), A.B. Shapiro, S.M. McLeod, A.A. Miller

P3-17 Inhibition of the RND-type efflux pump regulator AdeRS in *Acinetobacter baumannii*

K. Lucaßen (Germany), K. Xanthopoulou, T. Wille, H. Seifert, P.G. Higgins

P3-18 The role of *adeRS* in reduced antimicrobial susceptibility during motility in *Acinetobacter baumannii* ATCC 17978

K. Lucaßen (Germany), K. Xanthopoulou, T. Wille, H. Seifert, P.G. Higgins

P3-19 The MFS-type transporters (CraA and TetA) of *Acinetobacter baumannii* AYE

W.E. Foong (Germany), H.K. Tam, J.J. Cramés, J. Wilhelm, B. Averhoff, K.M. Pos

Poster Session

Poster Session I, Thursday 5, 13.30 - 14.30

- P3-20** Experimental evolution and genomics of antibiotic resistance in *Acinetobacter baumannii*
A. Osterman (USA), S. Leyn, J. Zlamal, M. Elane, F. Garcia-Alcalde
- P3-21** War, AntiMicrobial Resistance, and *A. baumannii* (WAMRA)
A.A. Fayad (Lebanon), W. Bazzi, L.-P. Haraoui, O. el Dewachi, G. Abou-Sitta, V.-K. Nguyen, A. Abara, H. Landecker, C. Knapp, M. McEvoy, M. Zamman, P. Higgins, G.M. Matar
- P3-22** Curing of large genomic islands AbaR in *A. baumannii*
A.-S. Godeux, A. Lupo, M. Haenni, X. Charpentier,
M.-H. Laaberki (France)
- P3-23** Isolation of airborne carbapenem resistant *Acinetobacter baumannii* from Intensive care unit of a tertiary regional care hospital in Kuwait
A.A. Dashti (Kuwait), S. Shamsah, L. Vali
- P3-24** Characterization of the novel OXA-213-like carbapenemase OXA 822 from *Acinetobacter calcoaceticus*
L. Leukert (Germany), M. Tietgen, J. Sommer, J. Kramer, S. Brunst, E. Proschak, I. Wittig, S. Göttig
- P3-25** Identification and phenotypic characterization of *A. bereziniae* isolates harboring a genomically integrated NDM-1 gene
Q. Pan, X.-M. Mo, Y.-L. Xie, L.-Q. Li, H.-M. Liu, Z.-Y. Zhou, J. Yuan, Y.-X. Liu, **N.-K. Wong (China)**

Poster Session

Poster Session I, Thursday 5, 13.30 - 14.30

P3-26 First case of *bla*_{NDM}-positive *Acinetobacter johnsonii* in Latin America: A potential dissemination source?

A. Opazo-Capurro (Chile), P. González-Muñoz, M. Quezada-Aguiluz, F. Salgado, F. Silva, B. Barrera, M. Cifuentes, H. Bello-Toledo, G. González-Rocha

P3-27 First Detection of Carbapenemase-producing *Acinetobacter baumannii* clinical isolates at Sylvanus Olympio Teaching Hospital in Lome-Togo

S. Dossim, **R.A. Bonnin (France)**, M. Salou, K. Tanga, V. Godonou, M. Prince David, A.Y. Dagnra, T. Naas

P3-28 Antibiotic resistance and efflux pump inhibitor effect in *A. baumannii* strains isolated from Cajamarca, Peru

I. Peña-Tuesta (Peru), W. Silva-Caso, N. López-Chegne, M.A. Aguilar-Luis, H. Carrillo-Ng, J. Bazan-Mayra, V. Zavaleta-Gavidia, S. Levy-Blitchtein, J. del Valle-Mendoza

P3-29 Effect of efflux pump inhibitor on the Minimum Inhibitory Concentration in *A. baumannii* strains isolated from Lima, Peru

S. Plascencia-Rebata, **I. Peña-Tuesta (Peru)**, S. Levy-Blitchtein, M.A. Aguilar-Luis, W. Vicente-Taboada, W. Silva-Caso, C.T. Valdez, J. del Valle-Mendoza

Poster Session

Poster Session I, Thursday 5, 13.30 - 14.30

P3-30 Generation and selection of antibodies for a immunochromatographic lateral flow assay to rapidly identify OXA-23-, OXA-40- and OXA-58-like mediated carbapenem-resistance in *A. baumannii* isolates

S. Mertins (Germany), P.G. Higgins, Q. Gilleman, P. Mertens, H. Seifert, M. Krönke, A. Klimka

P4 GENETICS AND REGULATION OF INFECTION

P4-1 *Acinetobacter baumannii* porin CarO: transcriptional response to growth phase, carbapenems and host cells

K. Novović (Serbia), M. Dinić, M. Malešević, Z. Vasiljević, M. Kojić, B. Jovčić

P4-2 Investigation of the Relation between Colistin Resistance and the Expression of *A. baumannii* Virulence factors

M.M.S. Soliman, A.S. Attia, N.M. Reda, A.M. Sayed, **P.G. Higgins (Germany)**, A.A. El-Kholy

P4-3 A *rsaM* homolog regulates quorum sensing and virulence in *Acinetobacter baumannii*

M. López-Martín (UK), M.R. Alexander, P. Williams

P4-4 The sensor kinase BfmS attributes to the regulation of outer membrane vesicles in *Acinetobacter baumannii*

J.C. Lee (Korea), M.H. Oh, S.I. Kim, Y.C. Lee, M.S. Shin

Poster Session

Poster Session I, Thursday 5, 13.30 - 14.30

P4-5 The pathogenic role of the A1S_3412 gene, encoding a D-alanyl-D-alanine carboxypeptidase, in *A. baumannii*
M.H. Oh, Y.J. Kim, S.H. Na, H. Jeon, C.H. Choi, Y.C. Lee, M.S. Shin, J.C. Lee (Korea)

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R. Iruegas (Germany), B. Djahanschiri, M. Männl, I. Ebersberger
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F. Langschieb (Germany), B. Djahanschiri, R. Iruegas, I. Ebersberger
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I. Peña-Tuesta (Peru), W. Silva-Caso, M.E. Castillo, M.A. Aguilar-Luis, H. Carrillo-Ng, O. del Aguila, J. Martins-Luna, A. Cornejo-Tapia, C.T. Valdez, J. del Valle-Mendoza

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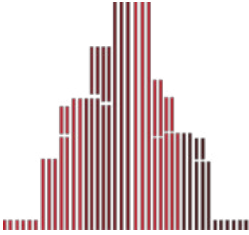
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ACINETOBACTER 2019

12th INTERNATIONAL SYMPOSIUM
ON THE BIOLOGY OF ACINETOBACTER

SEPTEMBER 4-6 | FRANKFURT, GERMANY



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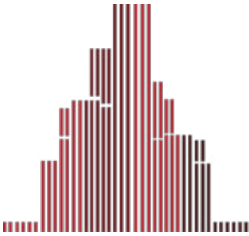
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General Information

General Information

- Conference Chair** Beate Averhoff
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Goethe University Frankfurt
Max-von-Laue-Straße 9
60438 Frankfurt/Main, Germany
- Congress Venue** Goethe University Frankfurt
Otto-Stern-Zentrum, lecture hall H2
Ruth-Moufang-Straße 2
60438 Frankfurt/Main, Germany
- Social Programme** All participants with their accompanying persons are invited to join the Welcome Reception in the Otto-Stern-Zentrum (September, 4th) and the Conference Dinner at the Senckenberg Museum (September, 5th)
- Congress Dinner** Thursday, September 5, 2019 at 19:00
The Senckenberg Museum
Senckenberganlage 25
60325 Frankfurt/Main, Germany
www.museumfrankfurt.senckenberg.de/en/
- Homepage** www.acinetobacter2019.com

Travel Information



By public transportation

Central station Frankfurt to Otto-Stern-Zentrum (Conference Venue)

Option 1

Take subways U4 or U5 in the direction "Seckbacher Landstraße" or "Preungesheim" to the station "Willy Brandt Platz". Change here to the subway U8 in the direction "Riedberg" to reach your destination "Uni Campus Riedberg".

Option 2

Take the S-train S1 - 9 heading to the city to "Hauptwache". Change here to the U8 in the direction "Riedberg" to get to "Uni Campus Riedberg".



By car

Leave the freeway A661 on the exit 6 "Frankfurt a. M. - Heddernheim" and follow the Marie-Curie street until you reach the exit to the campus "Altenhöferallee". Then take the first road on the left, where you will find enough parking facilities (see map on the next page).

Information - Conference Venue

Directions to the Conference Venue

...from the Relexa Hotel

You can reach the conference venue by car or by foot. Several parking facilities are available (indicated in the site map on the right). For walking, follow the red dotted lines.

...from the subway station

The Otto-Stern-Zentrum is located directly next to the station "Uni Campus Riedberg".

Catering during the Conference

Beverages and snacks are provided during the coffee breaks in front of the lecture hall. The lunch breaks take place in the cafeteria "Pi x Gaumen" (indicated in the site map on the right). You can choose your dish freely out of different options. The lunch coupons you will receive at the Check-in serve as payment.

Site map - Conference Venue



Information - Conference Dinner

Senckenberg Museum

The Conference Dinner takes place at the Senckenberg Museum of Natural History in Frankfurt. Busses depart at 18:30 in front of the Biologicum or the Relaxa Hotel. Participants staying at suggested hotels will be taken back to their accomodation at the end of the evening by bus.

Other hotels are reached by public transportation. The subway station next to the museum is "Bockenheimer Warte". Here, the subways U4 - U7 can be reached.



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