



Programme Acinetobacter 2017

11th International Symposium on the Biology of Acinetobacter

September 20-22, 2017
Seville, Spain



www.acinetobacter2017.com



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WELCOME

Acinetobacter spp., and *A. baumannii* in particular, continues to be a major nosocomial pathogen in the hospital setting. The new methodologies, especially proteomics and genomics, are constantly providing important information about the taxonomy, antimicrobial resistance, virulence and biology of this genus, all of which has made it possible to develop new strategies for treating infections caused by multi- and extensively-drug resistant isolates and for the surveillance and control of nosocomial outbreaks. Interesting new fields for exploration associated with this bacterium include the potential role of adjuvant therapies to supplement the effects of antimicrobial agents, the role of phages in the biology of *A. baumannii*, or the development of immunotherapy, among others. To share all the latest developments and information concerning *Acinetobacter* spp. is the main objective of the International Symposium on the Biology of *Acinetobacter*, which began in 1986. This symposium has always provided

an excellent opportunity to discuss the basic, epidemiological, clinical, and therapeutic aspects of this microorganism and its infections. It is also an excellent scenario for young scientists and students in this field to present and exchange information with more experienced scientists.

The 11th International Symposium on the Biology of *Acinetobacter* will be held in Seville (Spain). Located in Andalusia, in the South of Spain, Seville is a beautiful city, with a magnificent heritage that is the result of the presence and mix of different cultures during its long history. Its monuments and light-hearted way of life are particularly enjoyable at the end of September. We invite all of you to join the *Acinetobacter* family in Seville in 2017. We will be making every effort to provide an attractive scientific program and the right atmosphere in which to work hard and play harder.

Welcome to Seville!



Alvaro Pascual MD, PhD
Head of Clinical Microbiology Laboratory
University Hospital Virgen Macarena
Full Professor of Microbiology
University of Seville
Seville, Spain



Jerónimo Pachón MD, PhD
Head of Infectious Diseases Service
University Hospital Virgen del Rocío
Full Professor of Medicine
University of Seville
Seville, Spain



Scientific Committee

Robert Bonomo, Cleveland (OH, USA)
Germán Bou (A Coruña, Spain)
Emmanuelle Dé (Mont-Saint-Aignan, France)
Mario Feldman (Saint Louis, MO, USA)
Patrice Nordmann (Fribourg, Switzerland)
Jerónimo Pachón (Seville, Spain)
Alvaro Pascual (Seville, Spain)
Spyros Pournaras (Athens, Greece)
Harald Seifert (Cologne, Germany)
Kevin Towner (Nottingham, UK)
Jordi Vila (Barcelona, Spain)

Organizing Committee

Seville, Spain

Sofía Ballesta
José Miguel Cisneros
Felipe Fernández-Cuenca
Jerónimo Pachón (Co-Chair)
María E. Pachón-Ibáñez
Alvaro Pascual (Co-Chair)
Jesús Rodríguez-Baño
Younes Smani

Faculty

Robert Bonomo (Cleveland, OH, USA)
Germán Bou (A Coruña, Spain)
Emmanuelle Dé (Mont-Saint-Aignan, France)
Mario Feldman (Saint Louis, MO, USA)
Patrice Nordmann (Fribourg, Switzerland)
Spyros Pournaras (Athens, Greece)
Ignasi Roca (Barcelona, Spain)
Harald Seifert (Cologne, Germany)
Younes Smani (Seville, Spain)
María del Mar Tomás (A Coruña, Spain)
Jordi Vila (Barcelona, Spain)



Wednesday 20 September, 2017

14.00-16.00 **Registration**

OPENING CEREMONY

16.00-16.30 **Introduction and Welcome.** Alvaro Pascual (Spain).

16.30-17.00 **Opening Lecture**

Acinetobacter baumannii and friends - from harmless commensals to serious pathogens.

Harald Seifert (Germany).

SESSION 1 **Taxonomy, Population Genetics, and Evolution**

Chairmen: Alvaro Pascual (Spain) and Lenie Dijkshoorn (The Netherlands).

17.00-17.30 **Keynote Lecture**

Are there high-risk clones in *Acinetobacter baumannii*? A perspective from a population point of view.

María del Mar Tomás and Germán Bou (Spain).

17.30-18.30 **Oral Communications**

17.30-17.45 **O1-1** Cleaning up the nomenclatural chaos in the genus *Acinetobacter*: the effectively but not validly published names '*Acinetobacter oryzae*' Chaudhary et al. 2012, '*Acinetobacter plantarum*' De et al. 2016, '*Acinetobacter refrigerantis*' Feng et al. 2014 and '*Acinetobacter seohaensis*' Yoon et al. 2007 are synonymous with the validly published names of well-established species.

Lenka Radolfova-Krizova, **Paul G. Higgins (Germany)**, Alexandr Nemeč.

17.45-18.00 **O1-2** Developments in the taxonomy of Prokaryotes in the genomic era with implications for the genus *Acinetobacter*

Lenie Dijkshoorn (The Netherlands)

18.00 - 18.15 **O1-3** Isolation of different *Acinetobacter* species from market meat: first identification of *Acinetobacter dijkshoorniae* in Peru.

Marta Mari-Almirall (Spain), Clara Cosgaya, Maria J. Pons, Theresa J. Ochoa, Joaquim Ruiz, Ignasi Roca, Jordi Vila.

18.15-18.30 **O1-4** Comparative genomics of *Acinetobacter indicus* revealed potential host and environment adaptation.

Rémy A. Bonnin (France), Thierry Naas.

19:30

Networking Event

Thursday 21 September, 2017

SESSION 2 **Insights into *Acinetobacter baumannii* virulence and pathogenicity**

Chairmen: Paul Higgins (Germany) and María E. Pachón-Ibáñez (Spain).

9.00-9.30

Keynote Lecture

Pathogenic *Acinetobacter*: from the cell surface to infinity and beyond.
Mario Feldman (USA).

9.30-10.30

Oral Communications

9.30-9.45

O2-1

Generation and characterization of unmarked single and double heme utilization gene cluster knockout mutants of *Acinetobacter baumannii* LAC-4.

Peter J Ewing, Athena M Madrid, Rogelio Nuñez-Flores, Greg Harris, Wangxue Chen, **H. Howard Xu (USA).**

9.45-10.00

O2-2

Global gene expression profiling of *Acinetobacter baumannii* during a life-threatening mammalian infection.

Gerald L. Murray, Kirill Tsyganov, Xenia P. Kostoulias, Dieter M. Bulach, David Powell, Darren J. Creek, John D. Boyce, Ian T. Paulsen, **Anton Y. Peleg (Australia).**

10.00-10.15

O2-3

The effect of metal stress on *Acinetobacter baumannii* oxidate stress tolerance.

Karl A. Hassan, Victoria G. Pederick, Marjan Khorvash, Natalya Plakhova, Liam D.H. Elbourne, Ian T. Paulsen, James C. Paton, Christopher A. McDevitt, **Bart A. Eijkelkamp (Australia).**

10.15-10.30

O2-4

A high-frequency epigenetic switch controls virulence in *Acinetobacter baumannii* strain AB5075.

Chui-Yoke Chin, Kyle A. Tipton, Marjan Farokhyfar, David S. Weiss, **Philip N Rather (USA).**

10.30-11.00

Coffee Break

SESSION 3 **Antibiotic resistance mechanisms of *Acinetobacter***

Chairmen: Beate Averhoff (Germany) and Felipe Fernández Cuenca (Spain).

11.00-11.30

Keynote Lecture

Multidrug resistant *Acinetobacter baumannii*: the increasing threat.
Patrice Nordmann (Switzerland).

11.30-12.30 **Oral Communications**

11.30-11.45 **O3-1** Fluoroquinolone resistance arising via chromosomal replacement in GC1 *Acinetobacter baumannii*.

Mohammad Hamidian (Australia), Ruth M. Hall.

11.45-12.00 **O3-2** A monooxygenase enzyme from *Acinetobacter radioresistens* confers resistance to Imipenem.

Daniela Minerdi, Gianluca Catucci, Silvia Castrignano, Maria Elena Terlizzi, Giorgio Gribaudo, Gianfranco Gilardi, **Sheila J. Sadeghi (Italy)**.

12.00-12.15 **O3-3** LN-1-255, An effective? - Lactamase inhibitor against oxa carbapenemases from *Acinetobacter baumannii*.

Juan Carlos Vázquez-Ucha (Spain), María Maneiro, Marta Martínez-Gutián, John Buynak, Christopher R. Bethel, Robert A. Bonomo, Germán Bou, Margarita Poza, Concepción González-Bello, Alejandro Beceiro.

12.15-12.30 **O3-4** Lipidation of the *Acinetobacter baumannii* OXA-58 CHDL promotes its secretion in association to outer membrane vesicles.

Jorgelina Morán-Barrio, Luciano Brambilla, Carolina Fabbri, Patricia Marchiaro, Maria Cameranesi, Adriana Limansky, **Alejandro M. Viale (Argentina)**.

12.30-13.30 **Lunch**

13.30-14.30 **POSTER SESSION 1**

SESSION 4 Metabolism, regulations, and adaptation

Chairmen: Laurent Poirel (Switzerland) and Jerónimo Pachón (Spain).

14.30-15.00 **Keynote Lecture**
Adaptation of *Acinetobacter baumannii* to sessile lifestyles.
Emmanuelle Dé (France).


15.00-16.00 **Oral Communications**

15.00-15.15 **O4-1** The lytic murein transglycosylases MTLB contributes to membrane homeostasis in multi-drug resistant *Acinetobacter baumannii*.

Sebastien Crepin (USA), Elizabeth Ottosen, Sara N. Smith, Harry L.T. Mobley.

15.15-15.30 **O4-2** Crystal structure of phosphopantetheine adenyltransferase from *Acinetobacter baumannii* AT 1.76 a resolution.

Akshita Gupta (India), Naseer Iqbal, Punit Kaur, Sujata Sharma, T.P. Singh.



15.30-15.45 **O4-3** Probing natural competence of multidrug-resistant *Acinetobacter baumannii* via acquisition of the gentiase catabolic pathway.

Gottfried Wilharm (Germany), Ulrike Blaschke, Evelyn Skiebe.

15.45-16.00 **O4-4** Compatible solutes in *Acinetobacter baumannii*.

Sabine Zeidler (Germany), Volker Müller

16.00-16.30 **Coffee Break**

SESSION 5 **Epidemiology of multidrug-resistant *Acinetobacter***

Chairmen: Spyros Pournaras (Greece) and Luis Martínez (Spain).

16.30-17.00 **Keynote Lecture**
Dissemination of high-risk clones and genetic platforms encoding resistance genes.

Jordi Vila (Spain).

17.00-18.00 **Oral Communications**

17.00-17.15 **O5-1** Clonal map of *Acinetobacter baumannii* resistant to carbapenems in Andalusia 2016 (PIRASOA Program).

Felipe Fernández Cuenca (Spain), Lorena López Cerero, Inmaculada López Hernández, María Carmen Serrano Martino, Miriam Valverde Troya, Inmaculada López Rodríguez, Fátima Galán Sánchez, María del Pilar Luzón García, Alvaro Pascual.

17.15-17.30 **O5-2** European prospective cohort study on *Acinetobacter baumannii* showing resistance to carbapenems (EURECA-CRAB substudy).

María Paniagua-García (Spain), Salvador Ignacio Pérez-Galera, José Bravo-Ferrer, Jesús Sojo-Dorado, Nienke Cuperus, Marlieke de Kraker, Tomislav Kostyanev, Lul Raka, George Daikos, Jan Feifel, Laura Folgori, Lionel Tam, Alvaro Pascual, Herman Goossens, Seamus O'Brien, Marc J M Bonten, Belén Gutiérrez-Gutiérrez, Jesús Rodríguez-Baño for the EURECA Project team.

17.30-17.45 **O5-3** Whole-genome comparison of OXA-23- and OXA-58-producing carbapenem-resistant International Clone 2 *Acinetobacter baumannii* clinical isolates.

John W Rossen, Konstantina Dafopoulou, Sophia Vourli, Athanasios Tsakris, Alexander W Friedrich, **Spyros Pournaras (Greece)**.

17.45-18.00 **O5-4** Antibiotic usage as a driving force for spread of carbapenem resistant *Acinetobacter baumannii* in a tertiary-care hospital.

Gábor Kardos (Hungary), Hajnalka Tóth, Idan Blum, Julianna Mózes, Bence Balázs.



Friday 22 September, 2017

SESSION 6 Omics technologies for new therapy targets

Chairmen: Kevin Towner (United Kingdom) and José Garnacho (Spain).

9.00-9.30

Keynote Lecture

Acinetobacter spp.: virulence and resistance converge.

Robert Bonomo (USA).

9.30-10.30

Oral Communications

9.30-9.45

O6-1

Integration of Omics and bioinformatics tools to identify new therapeutic targets for *Acinetobacter baumannii*.

Labrador-Herrera G. (Spain), Pérez-Pulido A, Casimiro-Soriguer CS, Pulido-Fresneda M, Hermosín-Montes JM, Álvarez-Marín R, Smani Y, Pachón J, Pachón-Ibáñez ME.

9.45-10.00

O6-2

Central stress response elements in *Acinetobacter baumannii* using an integrative network biology approach.

Sonika Bhatnagar (India).

10.00-10.15

O6-3

Construction of new shuttle-vectors for gene cloning and expression in *Acinetobacter baumannii*.

Paolo Visca (Italy), Massimiliano Lucidi, Federica Runci, Giordano Rampioni, Emanuela Frangipani, Livia Leoni.

10.15-10.30

O6-4

Bifunctional Quaternary Amine Antibiotics.

Gregory A. Knauf (USA), Ashley L. Cunningham, Misha I. Kazi, Ian M. Riddington, Alexander A. Crofts, Vincent Cattoir, M. Stephen Trent, Bryan W. Davies.

10.30-11.00

Coffee Break

SESSION 7 Non-antimicrobial approaches

Chairmen: José Miguel Cisneros (Spain) and Paolo Visca (Italy).

11.00-11.30

Keynote Lecture

Non-antimicrobial strategies for the prevention and treatment of infections by multidrug-resistant Gram-negative bacilli.

Younes Smani (Spain).

11.30-12.30

Oral Communications



11.30-11.45
07-1 Matrix Metalloproteinase-9 (MMP-9) Plays an Important Role in Host Innate Defense against Respiratory Infection with *Acinetobacter baumannii* in Mice.

Greg Harris, Rhonda KuoLee, Sheng Hou, Hu Susan Jiang, H. Howard Xu,
Wangxue Chen (Canada).

11.45-12.00
07-2 Structural and functional studies of 3-dehydroquininate Dehydratase from *Acinetobacter baumannii*.

Naseer Iqbal (India), Mukesh Kumar, Pradeep Sharma, Satya Prakash Yadav, Punit Kaur, Sujata Sharma, Tej P. Sing.

12.00-12.15
07-3 Evaluation of recombinant protein BamA from *Acinetobacter baumannii* as a potential immunogenic target.

Anna Erika Vieira de Araujo (Brasil), Luis Vidal Conde, Ana Paula D'Allincourt Carvalho-Assef, Jose Procopio Moreno Senna.

12.15-12.30
07-4 Efficient immunization with a live vaccine confers long-term protection against *Acinetobacter baumannii* -acute infection in mice.

Maria Clara Póvoa Cabral (Spain), Patricia García Fernández, Alejandro Beceiro Casas, Carlos Rumbo Lorenzo, Astrid Pérez Gómez, Miriam Moscoso Naya, Germán Bou Arévalo.

12.30-13.30 **Lunch**

13.30-14.30 **POSTER SESSION 2**

SESSION 8 Management of infections and Infection Control Strategies

Chairmen: Jesús Rodríguez-Baño (Spain) and Anton Peleg (Australia).

14.30-15.00 **Keynote Lecture**
Strategies for the containment of carbapenem-resistant *Acinetobacter baumannii* infections.

Spyros Pournaras (Greece).

15.00-16.00 **Oral Communications**

15.00-15.15
08-1 Potent restoration of sulbactam activity by the novel, broad spectrum beta-lactamase inhibitor ETX2514 against multidrug resistant *Acinetobacter baumannii*.

Sarah McLeod (USA), Ken Lawrence, Alita Miller.

15.15-15.30
08-2 Clinical implications for environmental dissemination and decontamination of carbapenem-resistant *Acinetobacter baumannii* in an intensive care unit: a prospective cohort study.

Young Kyung Yoon (Korea), Hyeon Jeong Kim, Kyung Sook Yang, Byung Chul Chun, Jang Wook Sohn, Min Ja Kim.



CLOSING CEREMONY

- 15.30-16.00 **Closing Lecture**
The challenging taxonomy of *Acinetobacter*: beyond naming and shaming.
Ignasi Roca (Spain).
- 16.00 **Final Remarks and Farewell.** Jerónimo Pachón (Spain).



Poster Sessions

POSTER SESSION 1

Thursday 21 September, 2017 - 13:30-14:30 h

Taxonomy, population genetics and evolution

- P1-1** Using is locations to track sub-lineages of the *Acinetobacter baumannii* GC2 clonal complex.
Ruth M. Hall (Australia), Steven j. Nigro, Grace A. Balckwell.
- P1-2** Validation of an automated assay for *Acinetobacter baumannii* biofilm inhibitors from a microbial natural products collection.
Mercedes de la Cruz (Spain), José Carlos Martos, Pilar Sánchez, Ángeles Melguizo, Caridad Díaz, Francisca Vicente.
- P1-3** Comparative genomic analyses of *Acinetobacter pittii* clinical strains.
Itziar Chapartegui-González, María Lázaro-Díez, Santiago Redondo-Salvo, Laura Alted-Pérez, Jesús Navas, **José Ramos-Vivas (Spain)**.
- P1-4** Detection of horizontal gene transfer events in drug resistant *Acinetobacter baumannii*.
Maria-Halima Laaberki (France), Sophie Godeux, Simon Guette-Marquet, Agnese Lupo, Marisa Haenni, Jean-Yves Madec, Xavier Charpentier.
- P1-5** *Acinetobacter* spp. From livestock husbandry and its transfer through biogas plants.
Peter Kaempfer (Germany), Stefanie P. Glaeser.
- P1-6** Comparative genomic analysis of *Acinetobacter bereziniae* strains revealed an overall proximity between two geographically-separated carbapenem-resistant strains containing plasmids bearing blandm-1.
Marco Bovedan, Guillermo Daniel Repizo (Argentina), Martín Espariz, Patricia Marchiaro, Alejandro Miguel Viale, Adriana S. Limansky.
- P1-7** A genomic analysis of the *Acinetobacter baumannii* strains circulating in Mexico and Honduras.
Abraham David Salgado-Camargo (Mexico), Julio César Zuniga-Moy, Semiramis Castro-Jaimes, Oscar Taboada-Fernández, Angeles Pérez-Oseguera, Lucía Graña-Miraglia, Suyapa Aurora Bejarano, Annabelle Ferrera, Santiago Castillo-Ramírez.
- P1-8** Analysis on identification of *Acinetobacter* by MALDI-TOF MS using direct smear pretreatment.
Xiuyuan Li (China), Yanyan Tang, Xinxin Li.
- P1-9** *Acinetobacter baumannii* DSM30011: an environmental strain isolated at the onset of the antibiotic era reveals clues into the origins of an opportunistic nosocomial pathogen.
Guillermo D. Repizo (Argentina), Alejandro M. Viale, Vítor Borges, María M. Cameranesi, Najwa Taib, Martín Espariz, Céline Brochier-Armanet, João Paulo Gomes, Suzana P. Salcedo.



Insights into *Acinetobacter baumannii* virulence and pathogenicity

- P2-1** Structure of nucleoside diphosphate kinase and its inhibition studies from *Acinetobacter baumannii*.
Juhi Sikarwar (India), Punit Kaur, Sujata Sharma, T.P. Singh.
- P2-2** Potential role of phospholipase C from *Acinetobacter baumannii* in suppression of innate immune response.
Karishma Pardesi (India), Rashmi Nair, Riddhi Shah, Urvi Doshi.
- P2-3** High prevalence of *Acinetobacter baumannii* and of *Acinetobacter indicus* carrying Oxa23/58-Like genes in hessian cattle.
Klotz Peter (Germany), Semmler Torsten, Göttig Stephan, Leidner Ursula, Ewers, Christa.
- P2-4** Punctual *rpoB* mutations impairing in motility and virulence of *Acinetobacter baumannii*.
Jordi Corral Sábado (Spain), María Pérez Varela, Daniel Quiñones Celdran, Juan Andrés Vallejo Vidal, Soraya Rumbo Feal, Germán Bou Arévalo, Jesús Aranda Rodríguez.
- P2-5** Transcriptional profile of *Acinetobacter baumannii* mutants lacking motility and virulence.
María Pérez Varela (Spain), Jordi Corral Sábado, Daniel Quiñones Celdran, German Bou Arevalo, Jesús Aranda Rodríguez, Jordi Barbé García.
- P2-6** A pathogenic role of the A1S_3412 gene of *Acinetobacter baumannii* ATCC 17978.
Se Yeon Kim, Man Hwan Oh, Seok Hyeon Na, Hyejin Jeon, Hyo Il Kwon, Min Sang Shin, **Je Chul Lee (Korea)**.
- P2-7** Host- derived antimicrobial fatty acids target *Acinetobacter baumannii* lipid homeostasis.
Marjan Khorvash, Karl A. Hassan, Natalya Plakhova, Stephanie L. Begg, Victoria G. Pederick, James C. Paton, Ian T. Paulsen, Christopher A. McDevitt, **Bart A. Eijkelkamp (Australia)**.
- P2-8** Identification and Characterization of the Thioredoxin A protein as an *Acinetobacter baumannii* Virulence Factor.
Patrick M. Ketter, Sarah Ainsworth, Jieh-Juen Yu, Holly C. May, Andrew P. Cap, M. Neal Guentzel, **Bernard P. Arulanandam (USA)**.
- P2-9** The mode of inhibitor binding of ligands to peptidyl-tRNA hydrolase: Binding studies and structure analysis of unbound and bound peptidyl-tRNA hydrolase from *Acinetobacter baumannii*.
Sujata Sharma (India), Naseer Khan, Punit Kaur, Tej P. Singh.



P2-10 Overexpression of genes in the acetoin cluster associated with Quorum Sensing in airborne *Acinetobacter* sp. 5-2Ac0.

Laura Fernández-García (Spain), Lucia Blasco, Felipe Fernández-Cuenca, Rafael López-Rojas, Maria Lopez, Luis Martinez-Martinez, Alvaro Pascual, German Bou, Maria Tomás.

P2-11 Size variation in naturally expressed biofilm-associated protein (BAP) in clinical strains of *Acinetobacter baumannii*.

Masoumeh Douraghi (Iran), Mansoor Kodori, Fazel Shokri, Amir Aliramezani.

P2-12 Structural basis for the *Acinetobacter baumannii* biofilm formation.

Natalia Pakharukova, Minna Tuittila, Sari Paavilainen, Henri Malmi, Olena Parilova, **Anton V. Zavialov (Finland)**.

P2-13 The *feoA* gene from *Acinetobacter baumannii* 17978 is involved in the course of pneumonia infection.

Laura Álvarez-Fraga (Spain), Juan C. Vázquez-Ucha, Marta Martínez-Gutián, Juan A. Vallejo, Soraya Rumbo-Feal, Germán Bou, Alejandro Beceiro, Margarita Poza.

P2-14 New genes of *Acinetobacter baumannii* required for virulence in mouse model of pneumonia.

Marta Martínez-Gutián (Spain), Juan C. Vázquez-Ucha, Laura Álvarez-Fraga, Soraya Rumbo-Feal, Juan Andrés Vallejo, Germán Bou, Margarita Poza, Alejandro Beceiro.

P2-15 An *Acinetobacter baumannii* two-component system modulates multiple virulence traits.

Sarah K. Giles, Uwe H. Stroehrer, Shashikanth Marri, **Melissa H. Brown (Australia)**.

P2-16 Divergent Role of Toll-like Receptor (TLR) 4 in the Host Defense against Intranasal and Intraperitoneal Infections with the hypervirulent *Acinetobacter baumannii* isolate LAC-4 in Mice.

Greg Harris, Rhonda KuoLee, Xiaoling Gao, H. Howard Xu, Hongyan Zhou, Girishchandra B. Patel, **Wangxue Chen (Canada)**.

P2-17 Crystal structure of the TssL cytoplasmic domain from *Acinetobacter baumannii*, a component of the T6SS.

Elena Santillana, Francisco J. Medrano, **Antonio Romero (Spain)**, Federico M. Ruiz.

P2-18 Interrogating the role of *Acinetobacter baumannii* outer membrane lipoprotein, YraP.

Faye C. Morris (Australia), Rhys Grinter, Rhys Dunstan, Trevor Lithgow, Jian Li - Anton Y. Peleg.



- P2-19** Structure of Peptidyl-tRNA hydrolase from *Acinetobacter baumannii* at 1.9 Å resolution.
Pradeep Sharma (India), Sanket Kaushik, Punit Kaur, Sujata Sharma, T P Singh.
- P2-20** Unlocking the Complete Arsenal of *Acinetobacter baumannii* Type VI Secretion System Effectors.
Jessica M. Lewis (Australia), Timothy C. Fitzsimons, Deanna Deveson Lucas, Marina Harper, John D. Boyce.
- P2-21** Quantification of neutrophil extracellular traps in neutrophils stimulated by *Acinetobacter*.
María Lázaro Díez (Spain), Itiziar Chapartegui González, Zaloa Bravo del Hoyo, Teresa Navascués Lejarza, Alain Ocampo Sosa, Jorge Calvo, Luis Martínez Martínez, José Ramos Vivas.
- P2-22** Effect of incubation temperature on virulence and antibiotic susceptibility of *Acinetobacter baumannii* ATCC17978.
P. Malaka De Silva (Canada), Patrick Chong Dinesh, M. Fernando, Garret Westmacott, Ayush Kumar.
- P2-23** The contribution of iron uptake to *Acinetobacter baumannii* pathogenicity.
Federica Runci (Italy), Valentina Gentile, Emanuela Frangipani, Giordano Rampioni, Livia Leoni, Massimiliano Lucidi, Greg Harris, Wangxue Chen, Julia Stahl, Beate Averhoff, Paolo Visca.
- P2-24** Explaining the carbapenem-resistant *Acinetobacter baumannii* lineages dynamics by whole-genome and phenotypic analyses.
Liliana Silva (Portugal), Magdalena Ksiezarek, Filipa Grosso, Luísa Peixe.
- P2-25** Community-acquired *Acinetobacter baumannii*: a distinct hypervirulent pathogen.
Carina Dexter (Australia), Xenia Kostoulias, Ibukun E Aibinu, Gustavo M Cerqueira, Daniel N Farrugia, Gerald L Murray, David L. Paterson, Graham Lieschke, Anton Y Peleg.
- P2-26** Generation and characterization of unmarked single and double heme utilization gene cluster knockout mutants of *Acinetobacter baumannii* LAC-4.
Peter J Ewing, Athena M Madrid, Rogelio Nuñez-Flores, Greg Harris, Wangxue Chen,
H. Howard Xu (USA).

Antibiotic resistance mechanisms of *Acinetobacter*

- P3-1** Distribution of multidrug-resistant *Acinetobacter baumannii* in ASST "Spedali Civili" Brescia and analysis of colistin/sulbactam combination therapy by checkerboard approach.
Bettini L., **Lorenzin G. (Italy)**, Gelmi M., Fiorentini S.



P3-2 New eight genes identified at the clinical multidrug-resistant *Acinetobacter baumannii* DMS0669 strain in a Vietnam hospital.

Nguyen Si-Tuan (Vietnam), Nguyen Thuy Huong, Nguyen Cuong, Hua My Ngoc, Pham Hung Van, Pham Thi Thu Hang.

P3-3 Genomic resistance profiles and epidemiology of multidrug-resistant *Acinetobacter baumannii* strains in Colombia between 2012 and 2015.

Diego Andrés Prada Cardozo (Colombia), Verónica Del Pilar Rincón Forero, Hermes Pérez Cardona, Jhon Jairo Donato Ariza, Sandra Yamile Saavedra Rojas, Carolina Duarte Valderrama, Jaime Enrique Moreno Castañeda, María Teresa Jesús Reguero Reza, José Ramón Mantilla Anaya, Emilia María Valenzuela De Silva, Laurent J. E. FÁLQUET, Emiliano Barreto-Hernández.

P3-4 Epidemiology and carbapenem resistance of *Acinetobacter* spp. clinical isolates from Azerbaijan.

Fidan Yilmaz (Azerbaijan), Ignasi Roca, Laura Muñoz, Giuseppe Gornaglia, Nigar Agayeva, Jordi Vila.

P3-5 Bacteria from extreme environments: analysis of *Acinetobacter* communities from the Acquarossa River (Viterbo, Italy).

Carolina Chiellini, Elisangela Miceli, Camilla Fagorzi, **Luana Presta (Italy)**, Giovanni Bacci, Giovanna Bianconi, Francesco Canganella, Renato Fani.

P3-6 Comparative Genomic Characterization of Whole genome sequences of Clinical and environmental Strains of Multidrug-Resistant *Acinetobacter baumannii* Isolated from Morocco.

Tarek Alouane (Morocco), Jean Uwingabiye, Mostafa Elouennass, Azeddine Ibrahim.

P3-7 Outer membrane protein A contributes to antimicrobial resistance of *Acinetobacter baumannii* through the OmpA-like domain.

Mi Hyun Kim, Hyo Il Kwon, Shukho Kim, Man Hwan Oh, Yoo Jeong Kim, Young Ho Jeon, **Je Chul Lee (Korea)**.

P3-8 Dif modules in *Acinetobacter* plasmids contain antibiotic resistance and other genes flanked by inversely-oriented pdif sites.

Grace A. Blackwell (Australia), Ruth M. Hall.

P3-9 Evaluation of the contribution of several putative efflux pumps and OMPs to antimicrobial resistance in *Acinetobacter baumannii* AB5075.

Clara Cosgaya (Spain), Maria Nieto-Rosado, Ignasi Roca, Jordi Vila.



- P3-10** Overexpression of efflux pumps in persister cells from *Acinetobacter baumannii*.
Stephanie Wagner Gallo (Brazil), Antonio Frederico Michel Pinto, Diógenes Santiago Santos, Cristiano Valim Bizarro, Carlos Alexandre Sanchez Ferreira, Sílvia Dias de Oliveira.
- P3-11** DNA uptake by clinical multidrug resistant *Acinetobacter* spp.
Sara Domingues (Portugal), Natasha Rosário, Daniela Neto, Kaare Magne Nielsen, Gabriela Jorge Da Silva.
- P3-12** Expression of the AdeRS two-component system of *Acinetobacter baumannii* ATCC 17978 under different physiological conditions.
Kai Lucaßen (Germany), Stefanie Gerson, Kyriaki Xanthopoulou, Harald Seifert, Paul G. Higgins.
- P3-13** Action of a resveratrol derivative against *Acinetobacter calcoaceticus-baumannii*.
Marina Silveira Gregis Monteiro, Natália da Silva Cezar, André Arigony Souto, **Sílvia Dias de Oliveira (Brazil)**.
- P3-14** Influence of nutrient sources in the *Acinetobacter calcoaceticus-baumannii* persists levels.
Bruna Kern Donamore, Stephanie Wagner Gallo, Carlos Alexandre Sanchez Ferreira, **Sílvia Dias de Oliveira (Brazil)**.
- P3-15** *Acinetobacter baumannii* ability to survive and form biofilms after long periods under desiccation on hospital surfaces.
Itziar Chapartegui González (Spain), María Lázaro Díez, Zalora Bravo del Hoyo, Santiago Redondo Salvo, José Ramos Vivas.
- P3-16** Optimization of effective disinfectant concentration against carbapenem resistant strain of *Acinetobacter baumannii*.
Deepika Biswas (India), Vishvanath Tiwari.
- P3-17** Evolution towards increased carbapenemase activity in *Acinetobacter baumannii*.
Yuiko Takebayashi, Dimitri Chirgadze, Philip J. Warburton, **Benjamin A. Evans (UK)**.
- P3-18** Plasmid-Mediated-Quinolone-Resistance and blaCTX-M-group2-producing XDR *Acinetobacter baumannii* isolated from LCR of hospitalized patients in Brazil.
Anelise Stella Ballaben, Renata Galetti, Leonardo Neves de Andrade, Doroti de Oliveira Garcia, Paulo da Silva, **Ana Lucia da Costa Darini (Brazil)**.



POSTER SESSION 2

Friday 22 September, 2017 - 13:30-14:30 h

Antibiotic resistance mechanisms of *Acinetobacter*

- P3-19** Class D beta-lactamase-mediated resistance to carbapenem antibiotics in *Acinetobacter baumannii*.
Sergei Vakulenko (USA), Marta Toth, Clyde Smith, Nichole Stewart.
- P3-20** Characterization of OXA-143-like encoding plasmids in *Acinetobacter baumannii* clinical isolates.
Kyriaki Xanthopoulou (Germany), Julia Ertel, Alessandra Carattoli, Harald Seifert, Paul G Higgins.
- P3-21** High diversity mechanism of carbapenem resistant *Acinetobacter baumannii* in Algerian Hospital.
Mohamed Azzedine Bachtarzi (Algeria), Fazia Djennane, Damien Fournier, Katy jeannot, Mohamed Tazir, Patrick plésiat.
- P3-22** Carbapenem-resistant *Acinetobacter baumannii* in Brunei Darussalam.
Muhd Haziq F Abdul Momin (UK), Dr Paul G Higgins, Dr David W Wareham.
- P3-23** Diversity of GR-plasmids in carbapenemase-producing *Acinetobacter baumannii* isolated from nosocomial infections in Brazil.
Júlia da Costa Darini, Leonardo Neves Andrade, **Ana Lúcia da Costa Darini (Brazil)**, Renata Galetti.
- P3-24** Multidisciplinary approach to understand carbapenem resistance mechanism in *Acinetobacter baumannii* and assessment of alternate therapeutics.
Vishvanath Tiwari (India).
- P3-25** XerC/D site-specific recombination mediates plasmid plasticity and dissemination of blaOXA-58 containing structures in *Acinetobacter baumannii* strains isolated in Argentina.
Maria Marcela Cameranesi, Jorgelina Moran-Barrio, Guillermo Repizo, Adriana Limansky, **Alejandro M Viale (Argentina)**.
- P3-26** Elucidating regulatory pathways controlling the expression of RND pumps in *Acinetobacter baumannii*: more pieces added to the puzzle?
Ayush Kumar (Canada).



P3-27 Investigation of *pmrB* mutations and potential novel colistin resistance mechanisms in clinical *Acinetobacter baumannii* isolates.

Stefanie Gerson (Germany), Julia Ertel, Stephan Göttig, Harald Seifert, Paul G. Higgins.

P3-28 Analysis of colistin resistant determinants in *Acinetobacter baumannii* from bacteremia using whole genome sequencing.

Saranya Vijayakumar (India), Nithin Sam, Balaji Veeraraghavan.

P3-29 Constraint-based modeling identifies new putative targets to fight colistin-resistant *Acinetobacter baumannii* infections.

Luana Presta (Italy), Emanuele Bosi, Leila Mansouri, Lenie Dijkshoorn, Renato Fani, Marco Fondi.

P3-30 False positive phenotypic detection of metallo-beta-lactamases in *Acinetobacter baumannii*.

Branka Bedenić (Croatia), Ranko Ladavac, Mirna Vranic-Ladavac, Nada Barišić, Natalie Karčić, Antun Ferencic, Slobodan Mihaljević, Luka Bielen, Nataša Beader, Haris Car.

P3-31 Detection of drug resistance genes reservoirs in TnAbaRs and R plasmids and study of *adeRS* and *baeSR* regulatory systems on AdeABC efflux pump among *Acinetobacter baumannii* clinical isolates with decreased susceptibility to tigecycline.

Mohammad Savari (Iran), Abbas Bahador, Alireza Ekrami.

P3-32 Comparison of three different methods for tigecycline susceptibility testing in *Acinetobacter baumannii*.

Branka Bedenić (Croatia), Gordana Cavrić, Mirna Vranic-Ladavac, Nada Barišić, Natalie Karčić, Tatjana Tot, Aleksandra Presečki Stanko, Amarela Lukić-Grlić, Catherine Sreter, Sonja Frančkula-Zaninović.

Metabolism, Regulations, and Adaptation

P4-1 *Acinetobacter baumannii* survive anaerobic digestion of sewage sludge.

Jasna Hrenovic (Croatia), Marin Ganjto, Snjezana Kazazic, Blazenka Hunjak, Ana Kovacic, Svjetlana Dekic, Tomislav Ivankovic, Ivana Goic-Barisic.

P4-2 A novel genetic determination of lectin gene (*lec* gene) in Iraqi *Acinetobacter baumannii* isolates and using of lectin as antibiofilm agent.

Sahira Nsayef Muslim, **Israa M.S. Al-Kadmy (Iraq)**, Ibtesam Ghadban Auda, Alaa Naseer Mohammed Ali, Sawsan Sajid AL-Jubori.



- P4-3** Osmostress response of *Acinetobacter baumannii*: Role of multiple osmolyte transporter.
Jennifer Breisch (Germany), Izabela Waclawska-Krzeminski, Beate Averhoff.
- P4-4** Transcriptional and physiological comparison of acetate catabolism between *Acinetobacter schindleri* ACE and *Escherichia coli* JM101.
Juan-Carlos Sigala (Mexico), Lucy Quiroz, Alvaro R Lara.
- P4-5** The *Acinetobacter* DNA-(adenine N6)-methyltransferase AamA – an epigenetic regulator.
Ulrike Blaschke (Germany), Beneditta Suwono, Evelyn Skiebe, Stephan Fuchs, Gottfried Wilharm.
- P4-6** The search for environmental signals that trigger low water activity response in *Acinetobacter baumannii*.
Josephine Hubloher (Germany), Sabine Zeidler, Beate Averhoff, Volker Müller.
- P4-7** The signal peptide of KatG catalase-peroxidase directs functional folding and periplasmic localization in *Acinetobacter* sp. Ver3.
Mariana Sartorio, Alejandro Palavecino, **Néstor Cortez (Argentina)**.
- P4-8** Identification of BfmR, a response regulator of *Acinetobacter nosocomialis*, and its roles on biofilm development and pathogenesis.
Eun Kyung Lee, Woon Young Song, **Man Hwan Oh (Korea)**.
- P4-9** Proteomic analysis of *Acinetobacter baumannii* SDF in biofilms: highlighting atypical adhesion-associated determinant.
Marion Nicol (France), Eun-Jeong Yoon, Annick Schaumann, Patrice Courvalin, Catherine Grillot-Courvalin, Emmanuelle De.
- P4-10** Desiccation resistance in *Acinetobacter baumannii*.
Ngoc Dinh Ngu (Germany), Sabine Zeidler, Volker Müller.
- P4-11** Co-regulation of DNA damage-inducible genes by UmuDAb and DdrR.
Megan Peterson, **Janelle Hare (USA)**.



Epidemiology of multidrug-resistant *Acinetobacter*

- P5-1** Antibiotic Treatment Modulates Protein Components of Outer Membrane Vesicles of Multidrug-resistant Clinical Strain, *Acinetobacter baumannii* DU202.
Edmond Changkyun Park, **Sung Ho Yun (Korea)**, Sang-Yeop Lee, Hayoung Lee, Chi Won Choi - Je Chul Lee, Sangmi Jun, Gun-Hwa Kim, Seung Il Kim.
- P5-2** Clonal diversity of *Acinetobacter baumannii* isolates obtained from Iranian hospitals.
Parisa Aris (Iran), Morteza Karami-Zarandi, Mohammad Rahbar, Masoumeh Douraghi.
- P5-3** An outbreak caused by multiresistant *Acinetobacter baumannii* with rarely found sequence type 502 and OXA-40 carbapenemase.
Ivana Goic-Barisic (Croatia), Martina Seruga Music, Ana Kovacic, Zana Rubic, Anita Novak, Marija Tonkic, Jasna Hrenovic.
- P5-4** High prevalence of extensively drug-resistant *Acinetobacter baumannii* at a Children Hospital in Bolivia.
Mónica Cerezales (Spain), Alain A Ocampo-Sosa, Laura Álvarez Montes, Catalina Díaz Ríos, Zulema Bustamante, Jazmín Santos, Luis Martínez-Martínez, Paul G Higgins, Lucía Gallego.
- P5-5** Use of core genome MLST to identify endemic *Acinetobacter baumannii* international clone 7 isolates from two hospitals in Bolivia.
Mónica Cerezales (Spain), Kyriaki Xanthopoulou, Julia Ertel, Zulema Bustamante, Harald Seifert, Lucía Gallego, Paul G Higgins.
- P5-6** Investigating the meropenem-resistant *Acinetobacter baumannii* outbreaks from 2003 to 2016 at Rigshospitalet using Whole Genome Sequencing.
Tove Havnhøj Frandsen (Denmark), Leif Percival Andersen.
- P5-7** Report of ST85 NDM-1-producing *Acinetobacter baumannii* in Tunisia: evidence of the need of continuous surveillance.
Hadhémi Ben Chikh, Sara Domingues, Eduarda Silveira, Yosr Kadri, Maha Mastouri, **Gabriela Jorge da Silva (Portugal)**.
- P5-8** NDM-1-producing *Acinetobacter baumannii* from Tunisia, spread of the ST85 clone.
Nadia Jaidane, Thierry Naas, Wejdene Mansour, Olfa Bouallegue, **Rémy A. Bonnin (France)**.
- P5-9** Antibiotic resistance profiles of *Acinetobacter baumannii* complex strains isolated in the intensive care units of Gaziantep University Hospital.
Deniz Gazel (Turkey), Yasemin Zer.



P5-10 Genomic characterization of emerging colistin-resistant *Acinetobacter baumannii* strains belonging to ST451.

Sung Ho Yun (Korea), Edmond Changkyun Park, Hayoung Lee, Yoon-Sun Yi, Chaek Chung, Jae Young Moon, Gun-Hwa Kim, Seung Il Kim.

P5-11 Fast typing of carbapenem-producing *Acinetobacter baumannii* using MALDI-TOF MS.

Tove Havnhøj Frandsen (Denmark), Julie Nygaard, Rosalie Line Dahlerup Kruse, Leif Percival Andersen.

P5-12 Faecal carriage of *Acinetobacter baumannii*: a comparison to clinical isolates from the same period.

Bence Balázs (Hungary), Julianna Mózes, Idan Blum, Gábor Kardos.

P5-13 *Acinetobacter baumannii* recovered from technosol at a dump site.

Jasna Hrenovic (Croatia), Goran Durn, Svjetlana Dekic, Blazenka Hunjak, Snjezana Kazazic.

Omics technologies for new therapy targets

P6-1 Global transcriptional profiling of *Acinetobacter baumannii* under microaerobiosis and normoxy.

María Luisa Gil-Marqués (Spain), Younes Smani, Michael McConnell, María Eugenia Pachón-Ibáñez, Jerónimo Pachón-Díaz.

Non antimicrobial approaches

P7-1 Immunization with outer membrane complexes from lipopolysaccharide-deficient *Acinetobacter baumannii* provides protective immunity to multidrug-resistant strains.

Marina R. Pulido (Spain), Meritxell García-Quintanilla, Jerónimo Pachón, Michael J. McConnell.

P7-2 Cellular immune response triggered by *Acinetobacter baumannii* clinical strains in experimental pneumonia model.

Tania Cebrero Canguero (Spain), Gema Labrador Herrera, Younes Smani, Jerónimo Pachón, M^a Eugenia Pachón Ibáñez.



P7-3 Tamoxifen as repurposing drug for *Acinetobacter baumannii* infections therapy: in vitro and in vivo approaches.

Rafael Ayerbe Algaba (Spain), Andrea Miró Canturri, María Eugenia Pachón Ibáñez, Jerónimo Pachón, Younes Smani.

P7-4 AOA-2 derivatives as outer membrane protein A inhibitors for treatment of Gram-negative bacilli infections.

Rafael Ayerbe Algaba (Spain), Núria Bayó, Raquel Parra Millán, Jesús Seco, María Eugenia Pachón Ibáñez, Meritxell Teixidó, Jerónimo Pachón, Ernest Giralt, Younes Smani.

P7-5 In vitro activity of rafoxanide in combination with colistin against colistin-susceptible and colistin-resistant *Acinetobacter baumannii*.

Andrea Miró Canturri (Spain), Rafael Ayerbe Algaba, Raquel Parra Millán, María Eugenia Pachón Ibáñez, Jerónimo Pachón, Younes Smani.

P7-6 In vitro activity of a library of piperazine derivatives against two clinical strain of colistin resistant *Acinetobacter baumannii*.

Cebrero-Cangueiro T., Mazzotta S, **Carretero-Ledesma M. (Spain)**, Iglesias-Guerra F., Jiménez-Baus A., Smani Y., Vega-Pérez JM., Pachón J. - Pachón-Ibáñez.

P7-7 A unique vaccine candidate against *Acinetobacter baumannii* based on lipopolysaccharide-deficient whole cells.

Juan Domínguez-Herrera (Spain), Marta Carretero-Ledesma, Pilar Pérez-Romero, Jerónimo Pachón, Michael J. McConnell and Juan José Infante.

Management of infections and Infection Control Strategies

P8-1 To describe the temporary evolution of *Acinetobacter* spp isolates in an intensive care unit.

M^a Luisa Cantón Bulnes (Spain), Irene Barrero García , M^a de Gracia Gómez Prieto, José Garnacho Montero.

P8-2 *Acinetobacter baumannii* infection in an intensive care unit.

M^a Luisa Cantón Bulnes (Spain), M^a de Gracia Gómez Prieto, Irene Barrero García, José Garnacho Montero.



P8-3 In vitro assessment of the susceptibility of clinical and environmental *Acinetobacter baumannii* isolates to antiseptics and disinfectants.

Jean Uwingabiye (Morocco), Sanae Lanjri, Mohammed Frikh, Jalal Kasouati, Tarek Alouane, Adil Maleb, Abdelouahed Bait, Azzedine Ibrahim, Abdelhay Lemnouer, Mostafa Elouennass

P8-4 Surveillance of Multi-resistant *Acinetobacter baumannii* (MRAB) over 7 years in a National Spinal Injuries Centre in the UK.

Jean O'Driscoll (UK).

P8-5 Comparative in vitro antimicrobial activities of the second generation ceragenins CSA-142 and CSA-192, with CSA-13, against carbapenem-resistant *Acinetobacter baumannii*.

Cagla Bozkurt-Guzel (Turkey), Ozlem Oyardi.



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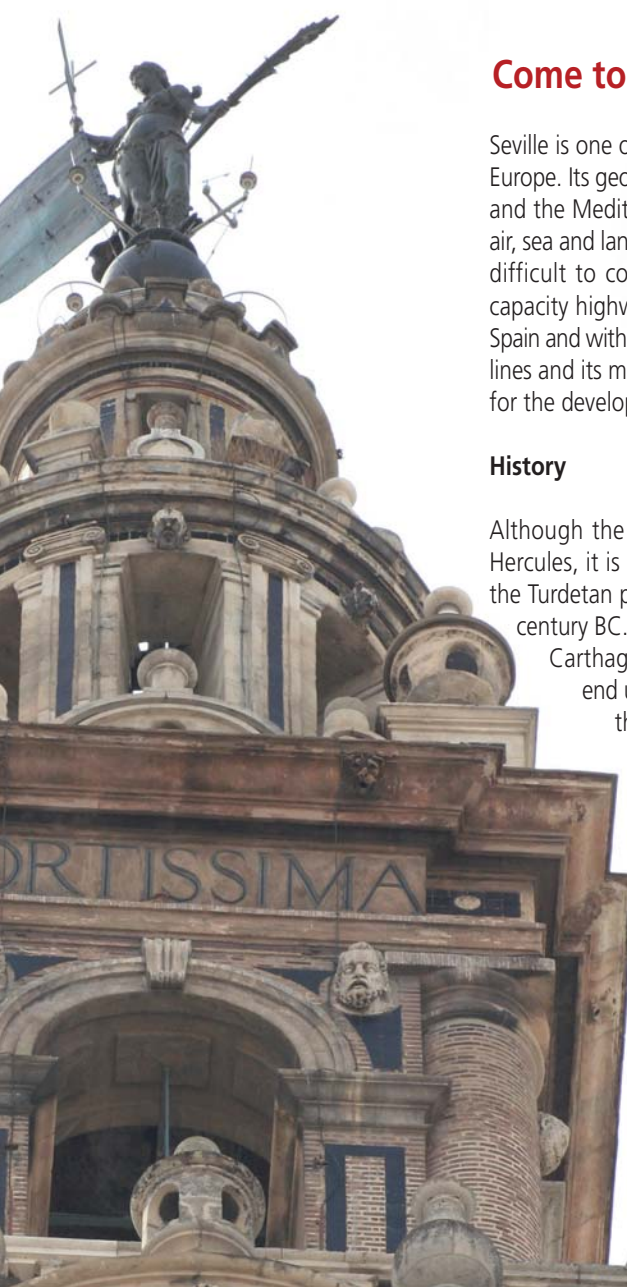
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General information



Come to #Seville

Seville is one of the most important cities in southern Europe. Its geostrategic situation halfway across Africa and the Mediterranean and excellently connected by air, sea and land to Europe is a reference urban nucleus difficult to compare. Its air connections, the high-capacity highways that connect it with the capital of Spain and with the Costa del Sol, the high-speed railway lines and its modern airport, are important arguments for the development of the congresses.

History

Although the foundation of Seville is attributed to Hercules, it is believed that the Tartessos (specifically the Turdetan people) were founded around the ninth century BC. Later it is occupied by Phoenicians and Carthaginians, although it is the Romans who end up settled after arriving in 206 BC under the orders of General Scipio. It was the Muslims who gave it the name of Ishbiliya, which later derived in Shbiya to end up being as it is now known, Seville. The discovery of the New World in 1492 was very significant for the city, which would become the European port of departure for America and one of the most populated cities in Europe.

In Seville, in addition to visiting its magnificent monumental and artistic heritage, you can enjoy its cultural offer and its traditions.

Transport information

Taxi from the airport

There is an official taxi fare to any of Seville hotels (suitcases included in the price):

1. Normal rate: € 22,20

Monday to Friday from 7:00 a.m. to 9:00 p.m.

2. Special/Night Rate: € 24,75

From Monday to Friday, from 9:00 p.m. to 7:00 p.m.

Saturdays, Sundays and public holidays, from 0:00 a.m. to 12:00 p.m.

Taxi from Santa Justa Railway Station: There is no negotiated fare from the train station, the amount will be indicated on the taximeter. However we inform you that this station is approximately 15 minutes away from Hotel Meliá Sevilla.

Airport Bus

The Special Airport Bus (EA) connects Seville airport with the city, with departures every 25 minutes. See route map for further information.

For Meliá Sevilla Hotel get off the bus at "San Bernardo" stop. This stop is located 5-10 minutes walk from the hotel.





Accomodation

Official hotel of the Acinetobacter Conference:

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The Meliá Sevilla, right in the heart of the city, offers renovated rooms, swimming pool and an excellent business centre.

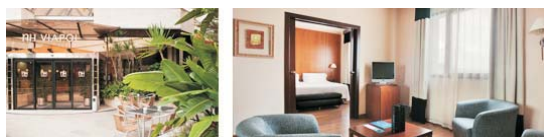
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