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**International Workshop ATHEALTH**  
**Information Technologies in**  
**Medical and Biomedical Applications**

**PROGRAM**



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November 25-27, 2015

Žilina, Slovakia



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## Programme Committee

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Co-Chairs:	Zaitseva Elena	<i>University of Žilina, Slovakia</i>
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## Organizing Committee

Chairs:	Levashenko Vitaly	<i>University of Žilina, Slovakia</i>
Co-Chairs:	Vasicheva Valentina	<i>Linnaeus University, Sweden</i>
	Grondzak Karol	<i>University of Žilina, Slovakia</i>
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	Zaitseva Elena	<i>University of Žilina, Slovakia</i>



## Participants

1. Prof. Mosad Zineldin  
Linnaeus University, Sweden
2. Prof. Elena Zaitseva  
University of Žilina, Slovakia
3. Prof. Vitaly Levashenko  
University of Žilina, Slovakia
4. Dr. Karol Grondzak  
University of Žilina, Slovakia
5. Dr. Miroslav Kvassay  
University of Žilina, Slovakia
6. Dr. Matus Chochlik  
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9. Dr. Enas Mohamed  
Damanhour University, Egypt
10. Dr. Magdy Khalil Soliman  
Damanhour University, Egypt
11. Dr. Mamdouh Mahdy  
Helwan University, Egypt
12. Dr. Safia Taha el Kabany  
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13. Dr. Mona Sami,  
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14. Dr. Ahmed Moustafa  
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15. Dr. Maha Adel  
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16. Eng. Eman Ismail  
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17. Dr. Hassan M. Khachfe  
Lebanese International University, Lebanon
18. Dr. Anwar Kawtharani  
Lebanese International University, Lebanon
19. Dr. Mohamad Fouad Ziade  
Lebanese University, Lebanon
20. Dr Moomen Baroudi  
Lebanese University, Lebanon
21. Dr. Youssef Aboussaleh  
University Ibn Tofail, Morocco
22. Dr. Rachid Bengueddour  
University Ibn Tofail, Morocco
23. Dr. Eva Babušíková  
Comenius University in Bratislava, JFM, Slovakia
24. Dr. Jana Jurečková  
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25. MUDr. Alena Škutchanová  
Comenius University in Bratislava, JFM, Slovakia
26. MUDr. Katarína Jackuliaková  
Faculty Hospital in Žilina, Slovakia



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## Time Schedule of the Workshop

Venue: University of Žilina, Univerzitná 8215/1, Žilina, Slovakia,  
Faculty of Information Sciences and Management

### Wednesday, November 25, 2015

19:00-23:00	Arrival of delegations at the airport Vienna, accommodation at Žilina
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### Thursday, November 26, 2015

#### Registration. Meeting Room of Scientific Board

09:00-9:15. Meeting Room of Scientific Board of UZ, Nova Menza, Žilina

#### Opening workshop and welcome words

Welcome by the Dean

Dr. Emil Krsak

Welcome by Project Manager/Coordinator

Prof. Mosad Zineldin

Welcome by head of Slovakian team

Prof. Elena Zaitseva

#### The First Training Section. Meeting Room of Scientific Board

09:45-12:30. Moderators: Prof. Elena Zaitseva and Prof. Mosad Zineldin.

09:45 – 10:30	Invited lecturer Dr. Hassan M. Khachfe (Lebanese Int. University) Review of the development process of the ATHEALTH Curricula
10:30 – 11:00	Invited lecturer Dr. Matus Chochlik (University of Žilina) Searching for hidden patterns in patient genetic data
11:00 – 11:30	Invited lecturer Dr. Michal Kvet (University of Žilina) Medical Data management over the time
11:30 – 12:00	Invited lecturer Dr. Alena Škutchanová (Comenius University, JFM) Information integration theory: The emergence of consciousness
12.00 – 12.30	Invited lecturer Dr. Eva Babušíková (Comenius University, JFM) A new perspectives in a detection of markers of human diseases in Slovakia
12:30 – 13:00	Lunch
13:00 – 18:00	Individual Discussion. Team building. Excursion to Bojnice Castle.
18:00 – 19:30	Dinner at Restaurant O2, Jána Kalinčiaka str., Žilina



## **Wednesday, November 27, 2015**

### **Visit to Faculty Hospital in Žilina**

**10:00-12:00. MUDr. Katarína Jackuliaková**

12:00-13:00

Lunch

### **The Second Training Section. Room FRI-A2**

**13.30-16.30. Moderator: Prof. Mosad Zineldin (LNU).**

13.30 – 14:00	Dr. Mohamad Fouad Ziade (Lebanese University, LU) Recent development of ATHEALTH course literature
14:00 – 14:30	Dr. Youssef Aboussaleh & Dr. Rachid Bengueddour Health Economics
14:30 – 15:15	Dr. Anwar Kawtharani (Lebanese International University, LIU) Modern Pedagogical and Teaching Methods in Health Sciences
15:15 – 15:30	Dr. Jana Jurečková (Comenius University, JFM) Genome-wide association study of prostate cancer

15:30 – 16:00

Coffee break

### **Open panel. Summary and conclusion. Room FRI-A2**

**16:00-18:00. Moderator: Prof. Mosad Zineldin (LNU).**

16:00 – 18:00	ATHEALTH Management Section. Discussion on the Project Development. Financial and Operational Management.
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# Welcome to the metropolis of Northwest Slovakia



Žilina is a natural centre of north-western Slovakia and with a population of 84 225 inhabitants (as per January 2013) it ranks among the largest cities in Slovakia. Žilina is situated around 200 km from Bratislava, the capital of Slovakia.

Žilina is located in the valley of the Váh river, in the Žilina Basin, at the confluence of the Váh river with its tributaries Kysuca and Rajčanka. The Žilina Basin is surrounded by the

mountain ranges of Malá Fatra (Lesser Fatra), Strážovské vrchy (Strážov Hills), Súľovské vrchy (Súľov Hills), Javorníky and Kysucká vrchovina (Kysuce Highlands).

Žilina is a centre of significant political, cultural, sport and public health care institutions. The city of Žilina is the seat of the Žilina Region. Together with the Region, it keeps a stable position of the second or third place in gross domestic product per inhabitant. Its economic potential can be proven by the fact that Žilina has the biggest number of traders per thousand inhabitants. As for the number of joint stock companies and limited companies, Žilina keeps third position in Slovakia. The Slovak Commercial and Industrial Chamber in Žilina is the second biggest in Slovakia.

Nowadays, the city of Žilina represents a dynamic development accelerated by KIA Motors Slovakia investments. However, the City is not only a centre of car production, but together with the Upper Váh River Region (Horné Považie), it is an interesting tourist destination.

Interesting events held in the city of Žilina and its surroundings during the year (Carnival Slovakia, Central European Festival of Concert Art, Old Town Festival, Folklore Festival in Terchová, Medieval Day, Rajec Marathon etc.) make the development of the City tourism more dynamic.

The city of Žilina is a centre of theatres, museums, galleries, parks and sports facilities. Its historical centre is crossed by one of the longest and the most beautiful pedestrian zones in Slovakia.



# Bojnice Castle



Bojnice Castle is a medieval castle in Bojnice, Slovakia. It is a Romantic castle with some original Gothic and Renaissance elements ntury. Bojnice Castle is one of the most visited castles in Slovakia, receiving hundreds of thousands of visitors every year and also being a popular filming stage for fantasy and fairy-tale movies. The castle is renowned for its attractions, including the popular Castle Fairytale, the International Festival of Ghosts and Spirits and the Summer Music Festival. The romantic castle is also a popular location for filming fairy tale movies, such as Fantaghirò.

Bojnice Castle was first mentioned in written records in 1113, in a document held at the Zobor Abbey. Originally built as a wooden fort, it was gradually replaced by stone, with the outer walls being shaped according to the uneven rocky terrain. Its first owner was Matthew III Csák, who received it in 1302 from the King Ladislaus V of Hungary. Later, in the 15th century, it was owned by King Matthias Corvinus, who gave it to his illegitimate son John Corvinus in 1489. Matthias liked to visit Bojnice and it was here that he worked on his royal decrees. He used to dictate them under his beloved linden tree, which is now known as the "Linden tree of King Matthias". After his death the castle became the property of the Zápolya family (see John Zápolya). The Thurzós, the richest family in the northern Kingdom of Hungary, acquired the castle in 1528 and undertook its major reconstruction. The former fortress was turned into a Renaissance castle. From 1646 on, the castle's owners were the Pálffys, who continued to rebuild the castle.



Finally, the last famous castle owner from the Pálffy family, Count János Ferenc Pálffy (1829-1908), made a complex romantic reconstruction from 1888 to 1910 and created today's beautiful imitation of French castles of the Loire valley. He not only had the castle built, but also was the architect and graphic designer. He utilized his fine artistic taste and love for collecting pieces of art. He was one of the greatest collectors of antiques, tapestries, drawings, paintings and sculptures of his time. After his death and long quarrels, his heirs sold many precious pieces of art from the castle and then, on 25 February 1939, sold the castle, the health spa, and the surrounding land to Ján Baťa.

After 1945, when Bata's property was confiscated by the Czechoslovak government, the castle became the seat of several state institutions. On 9 May 1950, a huge fire broke out in the castle, but it was rebuilt at government expense. After this reconstruction, a museum specializing in the documentation and presentation of the era of architectural neo-styles was opened here. Bojnice Museum is now part of the Slovak National Museum today.