

The First International EURASNET Conference on Alternative Splicing



21 - 23 May 2008

**Larische Palace, Jagiellonian University
Kraków, Poland**

Organized by:

**Jean Beggs, University of Edinburgh
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Sponsors



Location of Hotels & Conference Buildings

Conference Buildings

A. Larische Palace – ul. Bracka 12

Registration (Lobby)
Sessions (Lecture Hall)
Media Workshop (Room 55)
Bioinformatics Workshop (Lecture Hall)
Poster Session (Room Sztuka)

B. Collegium Novum – ul. Gołębia 24

Career Development Workshop
(Lectorium Pauli Vladimiri)

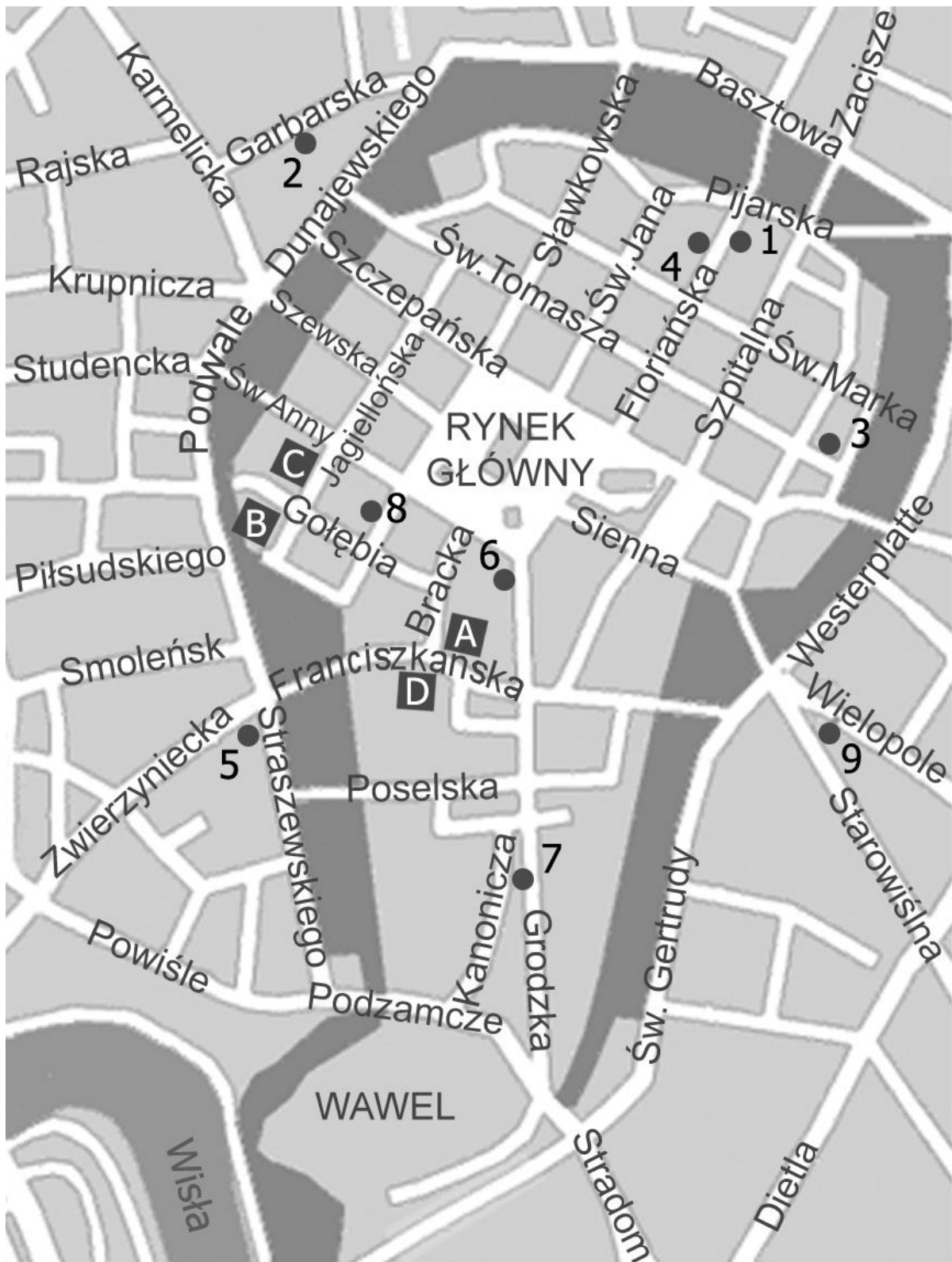
C. Collegium Maius – ul. Jagiellońska 15

D. Franciscan Church – pl. Wszystkich Świętych 5

Reception
meals

Hotels

1. Dom Gościnny UJ – ul. Floriańska 49
2. Amber – ul. Garbarska 10
3. Campanile – ul. Św. Tomasza 34
4. Floryan – ul. Floriańska 38
5. Radisson Sas – ul. Straszewskiego 17
6. Rezydent – ul. Grodzka 9
7. Senacki – ul. Grodzka 51
8. Bed&Breakfast – ul. Wiślana 10
9. Wielopole Guest Rooms – ul. Wielopole 3



Location of Hotels & Conference Buildings

PROGRAM

Wednesday, May 21

16:00 - 18:00 *Registration and Reception*

18:00 **WELCOME: Artur Jarmolowski** (*Poznan, Poland*)

18:15 - 19:00 OPENING LECTURE

Reinhard Lührmann (*Göttingen, Germany*) **1**
At the heart of the spliceosome

19:00 - 22:00 SESSION 1: MECHANISMS OF ALTERNATIVE SPLICING **Chair: Javier Cáceres** (*Edinburgh, UK*)

19:00 **Christopher Smith** (*Cambridge, UK*) **2**
Splicing regulation by paralogs and cofactors of PTB

19:30 **Nuria Majós** (*Barcelona, Spain*) **3**
Silencing of exon definition by simple amino acid sequence motifs

19:45 **Albrecht Bindereif** (*Giessen, Germany*) **4**
Autoregulation of hnRNP L on alternative splicing level: NMD induced by conserved intronic CA-rich cluster

20:00 *Coffee*

20:30 **Marc Schneider** (*Göttingen, Germany*) **5**
Insights into the transition from cross-exon to cross-intron recognition in early spliceosomal complexes

20:45 **Minna-Liisa Änkö** (*Dresden, Germany*) **6**
Revealing target genes and individual functions of SR proteins

21:00 **Frédéric Allain** (*Zürich, Switzerland*) **7**
The solution structure of hnRNP F protein in complex with G-tracts reveals a sequence specific recognition that does not use the β -sheet of the RRM

21:15 **Juan Pablo Fededa** (*Buenos Aires, Argentina*) **8**
Symmetric cell fate in alternative splicing regulation

21:30 **Douglas Black** (*Los Angeles, USA*) **9**
High throughput screening for drugs that act as alternative splicing modulators

Thursday, May 22

9:00 - 13:00

SESSION 2: SPLICING AND DISEASE

Chair: **Diana Baralle** (*Southampton, UK*)

9:00	Annemieke Aartsma-Rus (<i>Leiden, The Netherlands</i>) Therapeutic antisense-mediated reading frame restoration for Duchenne Muscular Dystrophy	10
9:30	Adrian Krainer (<i>Cold Spring Harbor, USA</i>) Antisense strategy for splicing correction in Spinal Muscular Atrophy	11
10:00	Daniel Schümperli (<i>Bern, Switzerland</i>) Correction of SMN2 splicing by a bifunctional U7 snRNA complements a severe mouse model for Spinal Muscular Atrophy	12
10:15	Jamal Tazi (<i>Montpellier, France</i>) Alternative splicing: A novel pharmacological target with wide therapeutic potential	13
10:45	<i>Coffee</i>	
11:15	Thomas Cooper (<i>Houston, USA</i>) Coordinately regulated alternative splicing and its disruption in Myotonic Dystrophy	14
11:45	Ludovic Guigou (<i>Illkirch, France</i>) Amphiphysin 2 splicing alteration as a possible cause of muscle atrophy in patients with Myotonic Dystrophy	15
12:00	Mariano Garcia-Blanco (<i>Durham, USA</i>) Alternative splicing and epithelial plasticity	16
12:30	Prabhakar Rajan (<i>Newcastle, UK</i>) Exploring alternative splicing in prostate cancer	17
12:45	Roscoe Klinck (<i>Sherbrooke, USA</i>) Alternative splicing markers for breast and ovarian cancers	18
13:00 - 15:00	<i>Lunch</i>	

CONCURRENT WORKSHOPS

15:00 - 18:00 **BIOINFORMATICS WORKSHOP**

Co-Chairs: Gil Ast (*Tel Aviv, Israel*), **Peer Bork** (*Heidelberg, Germany*),
Janusz M. Bujnicki (*Warsaw, Poland*)

15:00	Eugene V. Koonin (<i>Bethesda, USA</i>) Structural features and evolution of alternatively spliced and constitutive regions of mammalian 5'UTRs	19
15:25	Juergen Brosius (<i>Münster, Germany</i>) "Testing" new exons - all candidates accepted, no previous experience necessary	20
15:50	Schraga Schwartz (<i>Tel Aviv, Israel</i>) Finding a needle in a haystack: Alu exonization events illuminate the features required for recognition of exons	21
16:15	Eduardo Eyras (<i>Barcelona, Spain</i>) Comparative analysis of the splicing mechanism in eukaryotes	22
16:30	<i>Coffee</i>	
16:45	Steven Brenner (<i>Berkeley, USA</i>) Ultraconserved nonsense in splicing regulation	23
17:10	Jacek Majewski (<i>Montreal, Canada</i>) Microarray approaches to detect splicing differences across individuals, tissues, and species	24
17:35	Piotr Balwierz (<i>Basel, Switzerland</i>) Computational inference of transcription regulatory networks using deep sequencing data	25

15:00 - 18:00 **CAREER DEVELOPMENT WORKSHOP**

Co-Chairs: Karla Neugebauer (*Dresden, Germany*), **Jørgen Kjems** (*Aarhus, Denmark*)

15:00	Welcome	
15:05	Jie Kang (<i>Vice President of Research and Development, Head of Gene Silencing Research, Qiagen N.V., The Netherlands</i>) Career Paths for RNA Researcher in Industry	
15:30	Sabbi Lall (<i>Associate Editor, Nature Structure and Molecular Biology</i>) Frederic Allain (<i>Associate Professor, Zürich, Switzerland</i>) Anabella Srebrow (<i>Research Group Leader, Buenos Aires, Argentina</i>) Steps along the way: RNA researchers tell their own stories	
16:15	<i>Coffee</i>	

- 16:45 **Carol Featherstone** (*Freelance Science Writer and Consultant, Toulouse, France*) **26**
 Mobility in European scientific research
- 17:30 General discussion

14:30 - 18:00

MEDIA WORKSHOP

Co-Chairs: Andrea Barta (*Vienna, Austria*), **Claudia Panuschka** (*Vienna, Austria*)

- 14:30 **Elisabeth Waigmann** (*dialog<>gentechnik, Vienna, Austria*) **27**
 Introduction
- 15:00 **Andrew Moore** (*Science & Society Programme Manager, EMBO, Heidelberg, Germany*) **28**
 Role play
- 16:00 *Coffee*
- 16:30 **Phil Taylor** (*Head of Communications and Information Services, SCRI, Dundee, UK*) **29**
 How to get the message across to the media?
- 17:15 **Elisabeth Waigmann**
 Award ceremony for press releases
- 18:00 - 20:00 *Dinner*

20:00 - 23:00

POSTER SESSION
(Abstracts 50 – 116)

Friday, May 23

9:00 - 13:00		
SESSION 3: INTEGRATION OF NUCLEAR EVENTS		
Chair: Karla Neugebauer (Dresden, Germany)		
9:00	Utz Fischer (<i>Würzburg, Germany</i>) A coupled chaperone-enzyme system facilitates U snRNP assembly	30
9:30	Shivendra Kishore (<i>Lexington, USA</i>) Regulation of alternative splicing by snoRNAs	31
9:45	Robert Singer (<i>Bronx, USA</i>) Following mRNA regulation in nuclei of living cells	32
10:15	Alberto Kornblihtt (<i>Buenos Aires, Argentina</i>) Chromatin, pol II elongation and alternative splicing	33
10:45	<i>Coffee</i>	
11:15	Jean Beggs (<i>Edinburgh, UK</i>) Coupling of transcription and splicing in yeast	34
11:30	Josep Vilardell (<i>Barcelona, Spain</i>) Role of CBP80 on U2 co-transcriptional recruitment and splicing	35
11:45	Alexander Sidorov (<i>Leicester, UK</i>) Exon-repetition as a cis-acting alternative mRNA trans-splicing dependent on promoter and RNA polymerase II elongation rate	36
12:00	Gabriel Sanchez (<i>Paris, France</i>) Alteration of Cyclin D1 transcript elongation by a mutated transcription factor up-regulates the oncogenic D1b splice isoform in cancer	37
12:15	Maria Carmo-Fonseca (<i>Lisbon, Portugal</i>) How the nucleus deals with mis-spliced mRNA	38
12:45	Giuseppe Biamonti (<i>Pavia, Italy</i>) Post-transcriptional regulation of EMT: Lessons from the Ron proto-oncogene	39
13:00 - 15:00	<i>Lunch</i> MENTORING LUNCH (organized by Karla Neugebauer and Jørgen Kjems)	

15:00 - 18:15		SESSION 4: GENOME-WIDE STUDIES	
		Chair: Juan Valcárcel (Barcelona, Spain)	
15:00	Gil Ast (<i>Tel Aviv, Israel</i>)	The origin of alternative exons	40
15:30	Benjamin Blencowe (<i>Toronto, Canada</i>)	A network of functionally coordinated alternative splicing events regulated by nSR100, a novel neural-enriched SR-related protein	41
16:00	Yael Mandel-Gutfreund (<i>Haifa, Israel</i>)	A computational approach for genome-wide mapping of splicing factor binding sites	42
16:15	Miriam Llorian (<i>Cambridge, UK</i>)	Genomic and proteomic analysis of targets of polypyrimidine tract binding protein	43
16:30	<i>Coffee</i>		
17:00	Robert Darnell (<i>New York, USA</i>)	Predicted and observed RNA regulatory maps	44
17:30	Xiang-Dong Fu (<i>San Diego, USA</i>)	Digital analysis of gene expression and alternative splicing by high throughput sequencing	45
18:00	Britta Hartmann (<i>Barcelona, Spain</i>)	Control of alternative splicing by regulatory networks in <i>Drosophila</i>	46
18:15 – 19:00		KEYNOTE LECTURE	
	Joan Steitz (<i>New Haven, USA</i>)	The two faces of AGO: MicroRNAs can switch between translation repression and activation	47
20:00	<i>Banquet</i>		