



RESEARCH CONFERENCES

ESF-EMBO Symposium

Antiviral Applications of RNA Interference

Hotel Eden Roc, Sant Feliu de Guixols (Costa Brava) • Spain
5-10 April 2008

Chair: **Jens Kurreck**, University of Stuttgart, DE

Co-Chair: **Ben Berkhout**, University of Amsterdam, NL

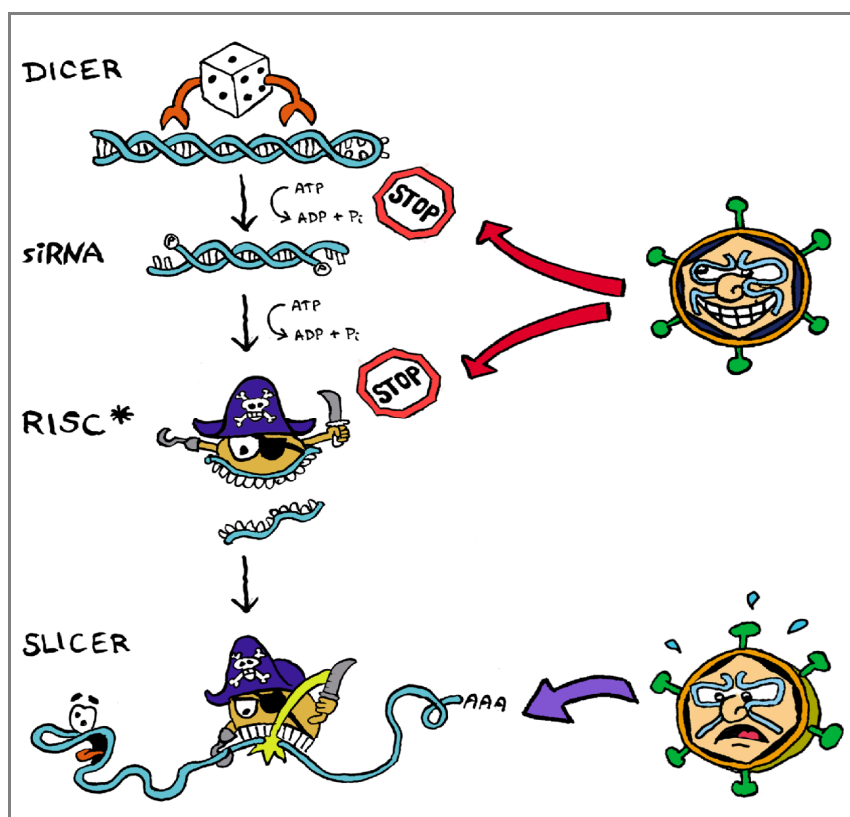
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Final Programme

Saturday 05 April

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| Late afternoon / early evening | Registration at the ESF-RC desk |
| 19.00 | Welcome Drink |
| 20.00 | Supper |

Sunday 06 April

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| 08.45-09.00 | Conference Opening (Jens Kurreck, Ben Berkhout) |
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Session 1: RNAi Technology

Chair: Jens Kurreck, Stuttgart, DE

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| 09.00-09.35 | Mark Kay Stanford University, US <i>RNAi based therapeutics for viral hepatitis and mechanisms of microRNA mediated translational silencing</i> |
| 09.35-10.10 | Jorgen Kjems University of Aarhus, DK <i>Optimization of siRNA function, in vivo delivery and therapeutic potential by chemical modifications and polymeric formulation</i> |
| 10.10-10.40 | Coffee break |
| 10.40-11.15 | Joerg Dennig Qiagen, DE <i>Efficient quantification of mammalian microRNA by a novel RT-PCR approach</i> |
| 11.15-11.35 | Puri Fortes CIMA/UNAV Pamplona, ES <i>Comparison between RNAi and RNAu</i> |
| 11.35-11.55 | Joachim Engels Goethe University Frankfurt, DE <i>Cationic siRNAs for stability and uptake</i> |
| 12.00 | Lunch |

Session 2: Plant viruses

Chair: Jean-Luc Imler, Strasbourg, FR

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| 14.15-15.50 | TBA |
| 15.50-15.10 | Discussion |
| 15.10-15.30 | Björn Krenz University of Stuttgart, DE <i>Abutilon mosaic virus as a stable and attenuated vector for phloem-specific protein expression and virus-induced gene silencing</i> |
| 15.30-15.35 | Short Break |

15.35-16.10

Juan Antonio Garcia

University of Madrid, ES

RNA silencing suppression via sequestration of small RNAs by different proteins of viruses of the family Potyviridae

16.10-16.30

Kirsi Lehto

University of Turku, FI

Interference of different viral silencing suppressors with the wild-type Tobacco mosaic virus (TMV) infection and with different TMV-based constructs expression either the GFP marker or the ChlH endogene

16.30-17.00

Coffee break

Session 3: Drosophila

Chair: Bryan Cullen, Duke, US

17.00-17.35

Jean-Luc Imler

CNRS, FR

RNAi and innate antiviral immunity in the drosophila model

17.35-18.10

Carla Saleh

Institut Pasteur, FR

RNAi: the antiviral defence system in insects

18.10-18.30

Ronald van Rij

Radboud University Medical Center, NL

Discordant antiviral function of RNAi in Drosophila melanogaster and mammals

19.00

Dinner

20.30-22.00

Poster Session

Monday 07 April

Session 4: Virus-host interactions / miRNAs

Chair: John Rossi, City of Hope, US

9.00-9.35

Goran Akusjarvi

Uppsala University, SE

Adenoviral interference with the RNAi/miRNA pathways in human cells

9.35-10.10

Bryan Cullen

Duke University, US

Virally encoded miRNAs

10.10-10.30

Fatah Kashanchi

George Washington University, US

HIV-1 TAR miRNA, latency and cellular gene expression

10.30-11.00

Coffee break

11.00-11.35

Olivier Voinnet

CNRS, FR

Induction, suppression and usurpation of RNA silencing pathways by plant pathogens

11.35-12.10

Kuan-Teh Jeang

NIH, US

HIV-1 interaction with the host RNAi machinery

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| 12.10-12.30 | Oscar Aparicio University of Navarra, ES <i>Adenovirus VA RNA is processed to functional miRNAs that target several cellular genes and affect virus production</i> |
| 12.30 | Lunch |
| Afternoon | Siesta |
| 15.30-16.00 | Coffee |

Session 4: Virus-host interactions / miRNAs (continued)

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| 16.00-16.35 | Monsef Benkirane Institut de Génétique Humaine, FR <i>Interplay between RNAi effectors and HIV-1 replication</i> |
| 16.35-17.10 | Joost Haasnoot University of Amsterdam, NL <i>RNAi suppressor proteins from HIV-1, influenza virus and Ebolavirus</i> |
| 17.10-17.20 | Short Break |

Session 5: HIV

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| 17.20-17.55 | John Rossi City of Hope Beckman Research Institute, US <i>RNAi and combinatorial gene therapy for HIV in hematopoietic stem cell and T-cell gene therapy settings</i> |
| 17.55-18.30 | Olivier ter Brake University of Amsterdam, NL <i>How to avoid viral escape from RNAi therapy</i> |
| 19.00 | Dinner |
| 20.00-21.30 | Poster Session |

Tuesday 08 April

Session 5: HIV (continued)

Chair: Kuan-Teh Jeang, NIH, US

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| 09.00-09.35 | Miguel Angel Martinez Fundacion irsiCaixa, ES <i>Strategies to minimize HIV-1 escape from siRNA</i> |
| 09.35-10.10 | Karin Metzner University of Erlangen, DE <i>Targeting drug resistant HIV-1 by RNA interference</i> |
| 10.10-10.30 | Eduardo Pauls Fundacion irisCaixa, ES <i>Effective small interfering RNAs targeting alphaV integrin inhibit HIV-1 replication</i> |
| 10.30-10.50 | Anne Gatignol McGill University, CA <i>HIV obstructs the RNAi pathway but does not disrupt TRBP-Dicer-Ago2 interactions</i> |

10.50-11.20 Coffee Break

Session 6: HBV / HCV

Chair: Mark Kay, Stanford, US

11.20-11.55

Gunther Hartmann

University of Bonn, DE

Combining siRNA and immunostimulatory RNA for the treatment of hepatitis B virus

11.55-12.15

Qiuwei Pan

University of Rotterdam, NL

Can RNA interference (RNAi) combine with interferon-alpha in anti-HCV treatment

12.30

Lunch

14.00 – 18.30

Half-day excursion to Girona

19.00

Dinner

20.00-21.00

Forward Look Plenary Discussion

Wednesday 09 April

Session 7: Enteroviruses and other viruses

Chair: Olivier Voinnet, Strasbourg, FR

09.00-09.35

Rainer Wessely

Technical University Munich, DE

RNA interference to treat enteroviral diseases: current status and clinical perspectives

09.35-10.10

Carolyn Coyne

University of Pittsburgh, US

Using RNAi to dissect enterovirus entry and infection of polarized cell monolayers

10.10-10.30

Sandra Pinckert

Charité Berlin, DE

Treatment of cardiac coxsackievirus infection by viral vector mediated RNA interference and soluble Coxsackie-Adenovirus Receptor (CAR) – a critical comparison

10.30-10.50

Jens Kurreck

University of Stuttgart, DE

Inhibiting coxsackievirus B3 and Echovirus 30 by means of RNA interference

10.50-11.20

Coffee Break

11.20-11.55

Thomas Rudel

Max-Planck-Institute for Infection Biology, DE

RNAi applications to defeat bacterial and viral infections of the respiratory tract

11.55-12.15

Discussion

12.30 Lunch

Afternoon Siesta

16.30-17.00 Coffee

Session 8: Clinical Development of RNAi

Chair: Ben Berkhout, Amsterdam, NL

17.00-17.35 TBA

17.35-18.10 Jörg Kaufmann
Silence Therapeutics, DE
Development of liposomal siRNA for RNAi mediated therapeutic applications

18.10-18.45 Discussion

18.45-19.00 Ben Berkhout
University of Amsterdam, NL
Closing Remarks

20.00 Get-together & Conference Dinner

Thursday 10 April

Breakfast & Departure