



**RESEARCH CONFERENCES**

ESF-EMBO Symposium

# Antiviral Applications of RNA Interference

Hotel Eden Roc, Sant Feliu de Guixols (Costa Brava) • Spain  
30 May-04 June 2010

Chair: **Ben Berkhout** - University of Amsterdam, NL  
Co-Chairs: **Jens Kurreck** - University of Technology Berlin, DE  
**Juan Antonio Garcia Alvarez** - Centro Nacional de Biotecnología, ES

ESF Rapporteur: **Martin Röllinghoff**, Erlangen-Nuremberg Universität, DE  
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## LIST OF ACCEPTED POSTERS

	Surname	First Name	Poster Title
1	Adamiak	Ryszard, Walenty	HIV-2 leader RNA. New SHAPE and structural accessibility
2	Aranda	Miguel	Virus resistance of melon RNAi lines silenced for eIF4E
3	Bagasra	Omar	Triplex Forming microRNAs Form Stable Complexes with HIV-1 provirus and Inhibit Its Replication
4	Ballana Guix	Ester	Small Interfering RNAs Targeting Beta Integrins Inhibit HIV-1 Replication in Macrophages
5	Bennasser	Yamina	Cross-Regulations Between Components of RNA Interference Machinery and RNA Regulate Cellular miRNA Levels
6	Besnard-Guerin	Corinne	Effects of Viral Suppressors of RNAi on miRNA-mediated silencing in Drosophila

<b>7</b>	Blazquez	Lorea	Synergism between nRNA interference and U1 inhibition and its application for HBV infection
<b>8</b>	Borah	Basanta Kumar	Role of Cauliflower mosaic virus leader region in infection
<b>9</b>	Boulanger	Nicolas	miRNA profile in human immunodeficiency virus type 1 (HIV-1) seropositive individuals that control viremia without antiretroviral treatment
<b>10</b>	Dalmay	Tamas	Structural and Functional Analysis of Viral siRNAs
<b>11</b>	Daròs	José-Antonio	Fate of artificial microRNA-mediated resistance to plant virus in mixed infections
<b>12</b>	De Cillia	Julia	P0 of poleroviruses: functional analysis of a silencing suppressor protein
<b>13</b>	Dupuis	Laurence	Infection and Recovery Rates Between a Mild and a Virulent Isolate of Arabis Mosaic Nepovirus in Nicotiana Benthamiana
<b>14</b>	Dutkiewicz	Mariola	Silencing of coxsackievirus B3 by targeting its highly structured 5'untranslated region with LNA-modified siRNAs
<b>15</b>	Ebert	Gregor	5'-Triphosphated siRNA Activate RIG-I and Control HBV Replication
<b>16</b>	Ely	Abdullah	Effective silencing of HBV replication with expressed pri-miRNA shuttle sequences
<b>17</b>	Fahim	Muhammad	Hairpin RNA derived from viral NIA gene confers immunity to wheat streak mosaic virus infection in transgenic wheat plants
<b>18</b>	Figlerowicz	Marek	Dicer inhibitors as potential antiviral agents
<b>19</b>	Gatignol	Anne	Title: Cellular distribution and interactions between proteins involved in RNA interference without and with HIV infection
<b>20</b>	Goulidaki	Nektaria	RHOB GTPase and HCMV miRNAs
<b>21</b>	Hamera	Sadia	CMV2b interferes RdDM at several aspects
<b>22</b>	Heinlein	Manfred	Interaction of Tobacco mosaic virus with RNA silencing
<b>23</b>	Hornsey	Crystal	Does Extensive RNA Structure Contribute to RNAi Evasion in Plant Viruses?
<b>24</b>	Iancu	Iulia Virginia	siRNA inhibition of E6AP expression in cervical cancer cells
<b>25</b>	Jawade	Aruna	The Impact of Silica Exposure on Innate Immunity of mine workers
<b>26</b>	Kashanchi	Fatah	Viral microRNA: Implications for HIV-1 latency and treatment
<b>27</b>	Klein	Reinhard	RNA interference-mediated inhibition of adenoviruses
<b>28</b>	Knoepfel	Stefanie	Inhibition of HIV-1 using novel shRNAs and U1 snRNAs
<b>29</b>	Koerner	Camilla Julie	Impact of ORMV infection on small RNA accumulation and activity in infected plant tissues
<b>30</b>	Kurzynska-Kokorniak	Anna	Dicer inhibitors as potential antiviral agents
<b>31</b>	Lafforgue	Guillaume	amiR-Mediated Resistance to Virus infection : Estimating the Likelihood of Escape Mutants
<b>32</b>	Lin	Shih-Shun	Molecular evolution of a viral non-coding sequence under the selective pressure of amiRNA-

mediated silencing			
<b>33</b>	McLachlan	Kathleen	Improved Processing of Short Hairpin RNA Molecules Targeting H5N1 Avian Influenza
<b>34</b>	Meyer Karlas	Thomas Alexander	RNAi strategy to identify and target host factors essential for viral replication
<b>35</b>	Nevot	Maria	Second generation siRNA that matched an escape mutant restores HIV-1 inhibition
<b>36</b>	Orbegozo	Jeanette	Stability of PLRV resistance mediated by RNAi under infection of alternative virus
<b>37</b>	Ottosen	Søren	In vitro and in vivo silencing of microRNA-122 by LNA oligonucleotide SPC3649 as a potent HCV antiviral
<b>38</b>	Ouellet	Dominique L.	Regulation of B23/Nucleophosmin protein expression and function by HIV-1-derived miR-TAR-5p and miR-TAR-3p
<b>39</b>	Pan	Qiuwei	Concerns about disturbance of the microRNA pathway by commonly used lentiviral RNAi libraries
<b>40</b>	Pantaleo	Vitantonio	Genome-wide profiling of virus-derived siRNAs and their target sites using deep sequencing and degradome analysis
<b>41</b>	Pietrusiewicz	Zofia Maja	Dicer inhibitors as potential antiviral agents
<b>42</b>	Poi	Ying	Titers of lentiviral vectors encoding shRNAs and miRNAs are reduced by different mechanisms that require distinct repair strategies
<b>43</b>	Rothe	Diana	Rapid generation of Adeno-associated virus (AAV) vectors expressing multiple short
<b>44</b>	Sainova	Iskra	Experimental model for safe in vitro- and in vivo-applications of genetically-manipulated stem and progenitor cells
<b>45</b>	Sarmiento	Cecilia	RNA silencing suppressors of plant viral and endogenous origin expressed in mammalian cells
<b>46</b>	Scheel	Troels	Analysis of hepatitis C virus NS5A function and sensitivity to interferon- $\alpha$ and specific antivirals using novel genotype 1-7 cell culture systems
<b>47</b>	Schnettler	Esther	The NS3 protein of Rice Hoja Blanca virus acts as RNA silencing suppressor protein in distinct organisms
<b>48</b>	Schopman	Nick	Anticipating and blocking HIV-1 escape by second generation antiviral shRNAs
<b>49</b>	Untiveros	Milton	A generic method for diagnosis, discovery and sequencing of viruses: deep sequencing of small RNAs
<b>50</b>	Uzcategui	Nathalie	In vitro and in vivo silencing of microRNA-122 by LNA oligonucleotide SPC3649 as a potent HCV antiviral
<b>51</b>	Van Den Berg	Fiona Taylor	Deriving effective anti-HIV guide sequences from enhanced primary microRNA secondary structures
<b>52</b>	Van Der Laan	Luc	Cell-to-cell transmission of small RNAs extends the reach of RNAi-based therapy for hepatitis C
<b>53</b>	van Mierlo	Joël	Nora virus suppresses RNAi downstream of Dicer-2 in Drosophila
<b>54</b>	van Rij	Ronald	Defense and counter-defense in the Drosophila RNAi-based immune system
<b>55</b>	Voloudakis	Andreas	COSTFA0806 - Plant virus control employing RNA-based vaccines: A novel non-transgenic strategy

<b>56</b>	Wagner	Anke	Inhibition of coxsackievirus B3 by means of RNA interference
<b>57</b>	Wassenegger	Michael	Binding of small double-stranded RNAs by a plant viral suppressor is enhanced by a member of the plant cupin super family
<b>58</b>	Zhao	Mingmin	Artificial miRNAs as antiviral agents in plant biology
<b>59</b>	Ziegler-Graff	Veronique	1. Phloem tropism of poleroviruses does not hinge only upon Dicer-Like activity
<b>60</b>		AND	2. Phloem specific Virus-Induced Gene-Silencing using a Recombinant polerovirus
<b>61</b>	Zvereva	Anna	The Cauliflower mosaic virus (CaMV) transactivator/viroplasmin (TAV) as a putative viral effector protein suppressing innate immunity in plants