



3rd US-EU Workshop



“Systems level understanding of DNA damage responses”

March 30 - April 1, 2009, Egmond aan Zee, the Netherlands

Programme

March 29, Sunday, afternoon, evening

Travel from Schiphol Airport to Egmond aan Zee

18.00–20.00 Registration.

Set-up posters, informal poster viewing

March 30, Monday

7.00-8.30 Breakfast

8.00-9.00 Registration

9.00-9.15 **Welcome, goals and objectives of the meeting**

9.15-10.00 Meeting Keynote Speaker : **“Systems biology approach to the ATM-mediated damage response”**

Yossi Shiloh

Session I DNA damage sensing/ triggering the signaling system 4 speakers

Chair

Yossi Shiloh

10.00-10.30 **“The role of ATM in integrating the damage response to DNA double strand breaks”**

Penny Jeggo

10.30-11.00 coffee

11.00-11.30 **“Temporal dissociation of immediate and sustained ATM kinase-dependent functions”**

Chris Bakkenist

11.30-12.00 **“DNA damage signalling and DNA repair”.**

Junjie Chen

12.00-12.30 **“Orchestration of the Fanconi anemia pathway by FANCM”**

Johan de Winter

12.30-14.00 Lunch

Session II Cell cycle regulation and repair 1 keynote / 4 speakers

14.00-14.45 Keynote and Chair
“A Systems Biology Approach Identifies p53 as a Binary Switch that Re-wires DNA Damage Signaling-Response Pathways”

Michael Yaffe

14.45-15.15 **“The mismatch repair interactome”**

Josef Jiricny

15.15-15.45 **“The expanding p53 universe”**

Mike Resnick

15.45-16.15 Coffee

Presentations selected on basis of received abstracts:

| | | |
|-------------|---|----------------------|
| 16.15-16.35 | A conserved damage survival network and its implications in cancer treatment | A.J.R. Bishop |
| 16.35-16.55 | MicroRNA-mediated gene silencing, a novel level of DNA damage response regulation | J. Pothof |
| 16.55-17.15 | Transcriptome analysis of MNNG treated Escherichia coli reveal numerous differentially expressed small non-coding RNAs | J.M. Lindvall |
| 18.30-20.00 | Dinner | |
| 20.00-22.00 | Poster viewing (Even numbers) & drinks | |

March 31, Tuesday

| | | |
|-------------|---|--------------------------|
| 7.00-8.30 | Breakfast | |
| | Session III: Structural biology processes and network dynamics 1 keynote / 5 speakers | |
| 9.00-9.45 | Keynote and Chair "Functional Specialization of Mammalian DNA Ligases" | Tom Ellenberger |
| 9.45-10.15 | "Mre11/Rad50/Nbs1 interactions connect dsDNA repair machinery, break signaling, and the chromatin template" | John Tainer |
| 10.15-10.45 | "CryoEM Structure of the DNA-Dependent Protein Kinase Catalytic Subunit at Subnanometer Resolution Reveals Alpha Helices and Insight into DNA Binding" | Phoebe Stewart |
| 10.45-11.15 | Coffee | |
| 11.15-11.45 | "The process of DNA binding: recognition and response" | Titia Sixma |
| 11.45-12.15 | "A model for DNA repair in living cells" | Wim Vermeulen |
| 12.15-12.45 | "Stress-responsive genes are poised for rapid activation" | Karen Adelman |
| 12.45-14.00 | Lunch | |
| | Session IV: Proteome and chromatin dynamics 1 keynote / 2 speakers | |
| 14.00-14.45 | Keynote and Chair "Biochemical approaches to biomolecular networks" | Anne-Claude Gavin |
| 14.45-15.15 | "Analysis of the chromatin proteome in normal and perturbed cell cycles" | Julian Blow |
| 15.15-15.45 | Coffee | |
| 15.45-16.15 | "Global analysis of the cell-cycle and DNA damage response networks by quantitative phosphoproteomics" | J.V. Olsen |
| 16.15-16.45 | "Dynamic genetic networks induced by DNA damage" | Trey Ideker |
| 16.45-18.30 | Poster viewing (Odd numbers) | |
| 18.30-19.30 | Cocktails | |

19.30- about
22.00 Dinner

April 1, Wednesday

7.00-8.30 breakfast

**Session V Systems biology approach to disease
1 keynote / 5 speakers (plus Meeting Summary!!)**

8.30-9.15 Keynote and Chair
"Translational responses to exposures optimize the DNA" *Tom Begley*

9.15-9.45 "Genomic predictors of interindividual differences in response to DNA damaging agents" *Rebecca Fry*

9.45-10.05 Presentation selected on basis of received abstracts:
"Inferring domain-domain interactions from protein-protein interactions: Application to cancer interactome" C.G. Guda

10.05-10.35 Coffee

10.35-11.05 "Targeting DNA damage response pathways as a means to developing novel cancer therapies" *Mark O 'Connor*

11.05-11.35 "Regulatory networks in pediatric cancer: integrating high throughput data from tumors, clinic and manipulated cell lines" *Rogier Versteeg*

11.35-12.05 "Computational tools for dissecting biological networks" *Ron Shamir*

12.05-12.20 **Closing remarks** *Leon Mullenders/
Chsitian Desaintes?*

12.45-14.00 Lunch

14.00 Departure (bus to airport)