



Armenian Association of Biochemists  
Constituent Member of the  
Federation of European Biochemical Societies

## IV International Meeting "Early Events in Human Pathologies"

12-16 October 2011  
Yerevan, Armenia

### Wednesday, October 12

21:00 Arrival to Yerevan, **Bus to Ani Plaza Hotel**

### Thursday, October 13

8:30 – 9:30

**Breakfast**

9:30 – 9:45

**Registration**

9:45 – 10:00

**Transfer to the National Academy of Sciences**

10:00 – 10:30

**Opening ceremony**

**Henri REYNAUD**, Ambassadeur de France en Arménie (to be confirmed)

**Philippe KALTENBACH**, vice-président de la Région Ile-de-France, chargé des affaires internationales et européennes.

**Armen GALOYAN**, President of the Armenian Association of Biochemists

**Yegor VASSETZKY**, GDRI coordinator

10:30-11:30.

#### Session 1

**Chairmen:**

**CHROMATIN AND TRANSCRIPTION**

**Joëlle Wiels and Tigran Davtyan**

**Sonia Georgieva**

SAYP and Brahma are important for “repressive” and “transient” Pol II promoter-proximal pausing

**Laszlo Tora**

Co-temporal replication and transcription in long genes induces common fragile site breakage that can be prevented by inhibiting R-loop formation

	<b>Zaven Karalyan</b>	Selective cytotoxicity and modification activity of picornaviruses on transformed cell lines
<b>11:30-11:50</b>		<b>Coffee Break</b>
11:50-13:10	<b><u>Session 2</u></b> <b>Chairmen:</b>	<b><i>NUCLEUS</i></b> <b><i>Marc Lipinski and Vadim Kavsan</i></b>
	<b>Yegor Vassetzky</b>	Nuclear organization in lymphoid cells: implications for translocations and gene regulation
	<b>Sergey Razin</b>	Dynamic nature of active chromatin hubs
	<b>Mikhail Rubtsov</b>	Treatment of lymphoid cells with the topoisomerase II poison etoposide leads to an increased juxtaposition of AML1 and ETO genes on the surface of nucleoli
	<b>Catherine Dargemont</b>	Novel functions for ubiquitylation in nuclear processes
13:10-14:00		<b>Lunch</b>
14:00-16:00	<b><u>Session 3</u></b> <b>Chairmen:</b>	<b><i>DNA DAMAGE AND CANCER</i></b> <b><i>Catherine Dargemont and Rouben Harutyunyan</i></b>
	<b>Jean-Cristophe Amé</b>	PARP-9: a newcomer in the cell response to DNA damage
	<b>Olga Lavrik</b>	Apurinic/aprimidinic (AP) site recognition by poly(ADP-ribose) polymerase 1 and other key proteins of human cells
	<b>Levon Mkrtchyan</b>	Embryonal proteoglycans and counteraction to a tumour growth
	<b>Mikhail Kutuzov</b>	Interaction of PARP2 with DNA structures mimicking DNA repair intermediates
	<b>Nina Barkhudaryan</b>	Molecular mechanisms involved in anti-cancer effect of hemorphins
	<b>Joëlle Wiels</b>	Treatment with a BH3 mimetic overcomes the resistance of latency III EBV (+) cells to p53-mediated apoptosis
16:00-16:40		<b>Coffee Break // Poster session</b>
16:40-19:00	<b><u>Session 4</u></b> <b>Chairmen:</b>	<b><i>CANCER</i></b> <b><i>Olga Lavrik and Michael Aghadjanov</i></b>
	<b>Yuri Tadevosyan</b>	Blood lymphocyte lipids in diverse forms of cancer
	<b>Pavel Areshkov</b>	Dependence of cell destiny on the longitude of MAPK/ERK1/2 activation by two homologous chitinase-like proteins, CHI3L1 and CHI3L2
	<b>Z. Ter-Pogossian</b>	Parameters of cytokine regulation as additional criteria in immune diagnostics
	<b>Vadim Kavsan</b>	Oncogenic and anti-oncogenic properties of genes with

significantly changed expression in brain tumors

**Karine Galoian** Hypothalamic cytokine Galarmin is an inhibitor of mesenchymal tumors

**Andrii Vislovukh** Loss of posttranscriptional control of the oncogenic eEF1A2 as a potential way to cancer progression

**Artashes Guevorkian** Iatrogenic aplasia induced by chemotherapy and treatment with “proline rich peptide”

19:00 **Meeting of the scientific committee of the GDRI // Free time**

### **Friday 14, October**

8:00 – 9:00 **Breakfast**

9:00 – 9:15 **Transfer to the National Academy of Sciences**

9:15– 10:55 **Session 5** ***AUTOIMMUNE AND NEURODEGENERATIVE DISEASES I***

**Chairmen:** ***Mikhail Ugrumov and Armen Galoyan***

**Mykola Dergai** The *ITSN1* interactome and its functions

**Inessa Sahakyan** Brain plasticity of exposed to prenatal immobilization stress rats

**Lydia Kerkerian-Le Goff** High frequency stimulation of the subthalamic nucleus impacts adult neurogenesis in a rat model of Parkinson’s disease

**Anna Boyajyan** Autoimmune processes in pathogenesis of complex polygenic diseases

10:55-11:10 **Coffee Break**

11:10-12:30 **Session 6** ***AUTOIMMUNE AND NEURODEGENERATIVE DISEASES II***

**Chairmen:** ***Lidya Kerkerian-Le Goff and Gevorg Gevorkian***

**Narine Nazaryan** Region-specific nitric oxide production in cytosolic and mitochondrial compartments of the rat brain tissues following chronic stress-induced depression-like behaviour

**Laura Hovsepyan** Oxidative modifications of biomolecules upon neurodegenerative processes

**Valery Khaindrava** Modelling of parkinsonism in mice: mechanisms of neuroplasticity

**John Sarkissian** Electrophysiological study of the spinal cord motoneurons on the model of Parkinson’s disease induced by rotenone

12:30-13:30		<b>Lunch</b>
13:30-14:30		<b>A guided tour to Matenadaran</b>
14:30-17:30	<b><u>Session 7</u></b> <b>Chairmen:</b>	<b><i>MOLECULAR BIOLOGY OF DISEASES</i></b> <b><i>Patrick Curmy and Anna Boyajyan</i></b>
	<b>Marc Mirande</b>	Association of mitochondrial lysyl-tRNA synthetase with HIV-1 GagPol involves catalytic domain of the synthetase and transframe and integrase domains of Pol.
	<b>Mher Kostanyan</b>	Carcinoma in situ of the breast: riddles and controversies
	<b>Liliane Massaad-Massade</b>	Effects of silencing RET/PTC1 junction and <i>in vivo</i> delivery of siRNA-Squalene nanoparticles in human papillary thyroid carcinoma cells
	<b>Levon Harutyunyan</b>	Results of complex treatment of patients with glial brain tumors with local chemotherapy
	<b>Patrick Curmi</b>	The nucleic acid binding properties of CSD of human YB-1
	<b>Victorya Hovhannisyan</b>	Comprehensive treatment of locally malignant tumors using radiomodifications
	<b>Tigran Davtyan</b>	Mutations in MEFV cause alterations in Neutrophil F-actin and Phagocytosis Dynamics
17:30-17:45		<b>Coffee Break</b>
17:45-18:45	<b><u>Round table</u></b> <b>Chairman:</b>	<b>COLLABORATION BETWEEN ARMENIA AND FRANCE</b> <b><i>Yegor Vassetzky</i></b>
18.45-20:00		<b>Free time</b>
20:00		<b>Gala Dinner</b>

### **October 15, Saturday**

8:30 – 9:30	<b>Breakfast</b>
9:30 - 11:00	<b>City sightseeing</b>
11:00-14:00	<b>Tour to Garni and Geghard</b>
14:00-16:00	<b>Free time</b>
16:00-18:00	<b>Tour to Etchmiadzin</b>
18:00	<b>Free time</b>

**October 16, Sunday**  
(for participants flying to Paris)

8:30 – 9:30

**Breakfast**

9:30–13:00

**Free time**

13: 00

**Departure to Paris (flight at 15:10)**

*The proceedings of the meeting will be published in the ["Biopolymers and Cell"](#) journal.*