

Workshop on Chemoresistance

Milan January 21, 2009

WELCOME!

Chemoresistance

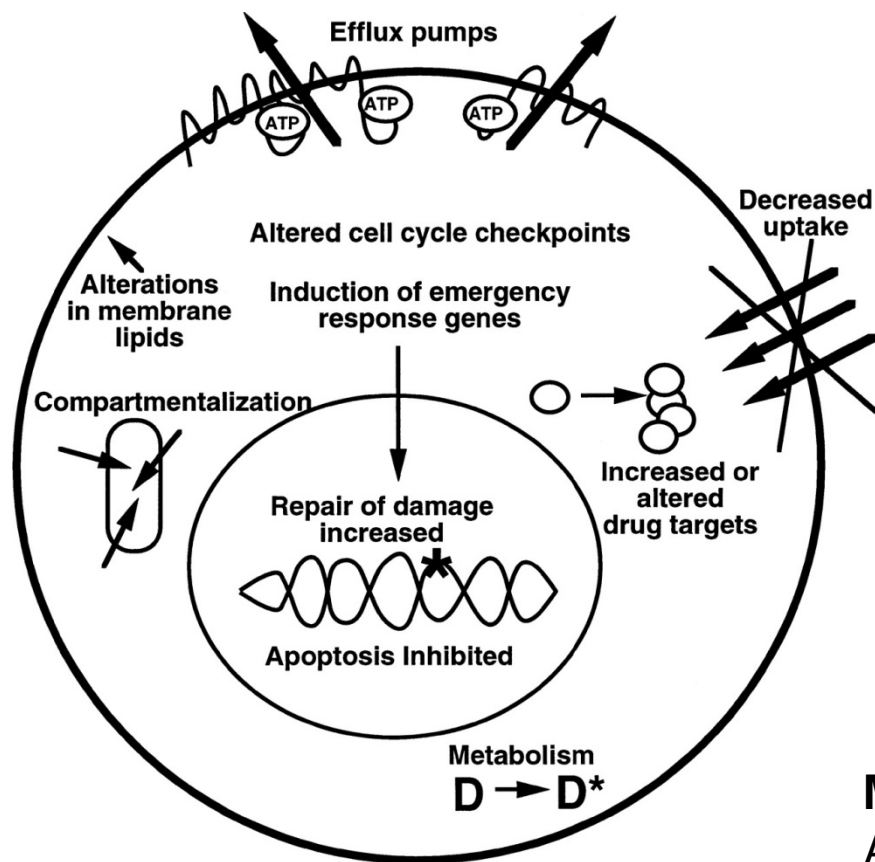
- a major cause of treatment failure in oncology

**3.2 million new cases of cancer in
Europe 2006**

1.7 million deaths

Source: IARC

Mechanisms of drug resistance in vitro



MM Gottesman

Annu Rev Med 2002;53:615-27

Despite extensive knowledge of drug resistance mechanisms from *in vitro* studies

– lack of significant progress in translating this to therapeutic advances in the clinic

Possible obstacles to clinical progress

- Different mechanisms relevant *in vitro* and *in vivo*?
- Multiple mechanisms involved?
- Tumor cell heterogeneity?
- Tumor stem cells?
- Tumor - stroma interactions?

CHEMORES

Integrated Project

Molecular mechanisms underlying chemotherapy resistance, therapeutic escape, efficacy and toxicity



CHEMORES

- Focus on two malignancies where drug resistance is a major problem:
 - Lung cancer (SCLC and NSCLC)
 - Malignant melanoma
 - Emphasis on investigations on biological samples from patients participating in clinical trials – using state-of-the-art biotech platforms
 - Involvement of strong preclinical research groups
 - 19 participants: Clinic - Academia - SMEs
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Duration of the CHEMORES project

February 1st 2007 – January 31st 2012

EU-funding

€ 8,710,300 / 5 years

List of participants

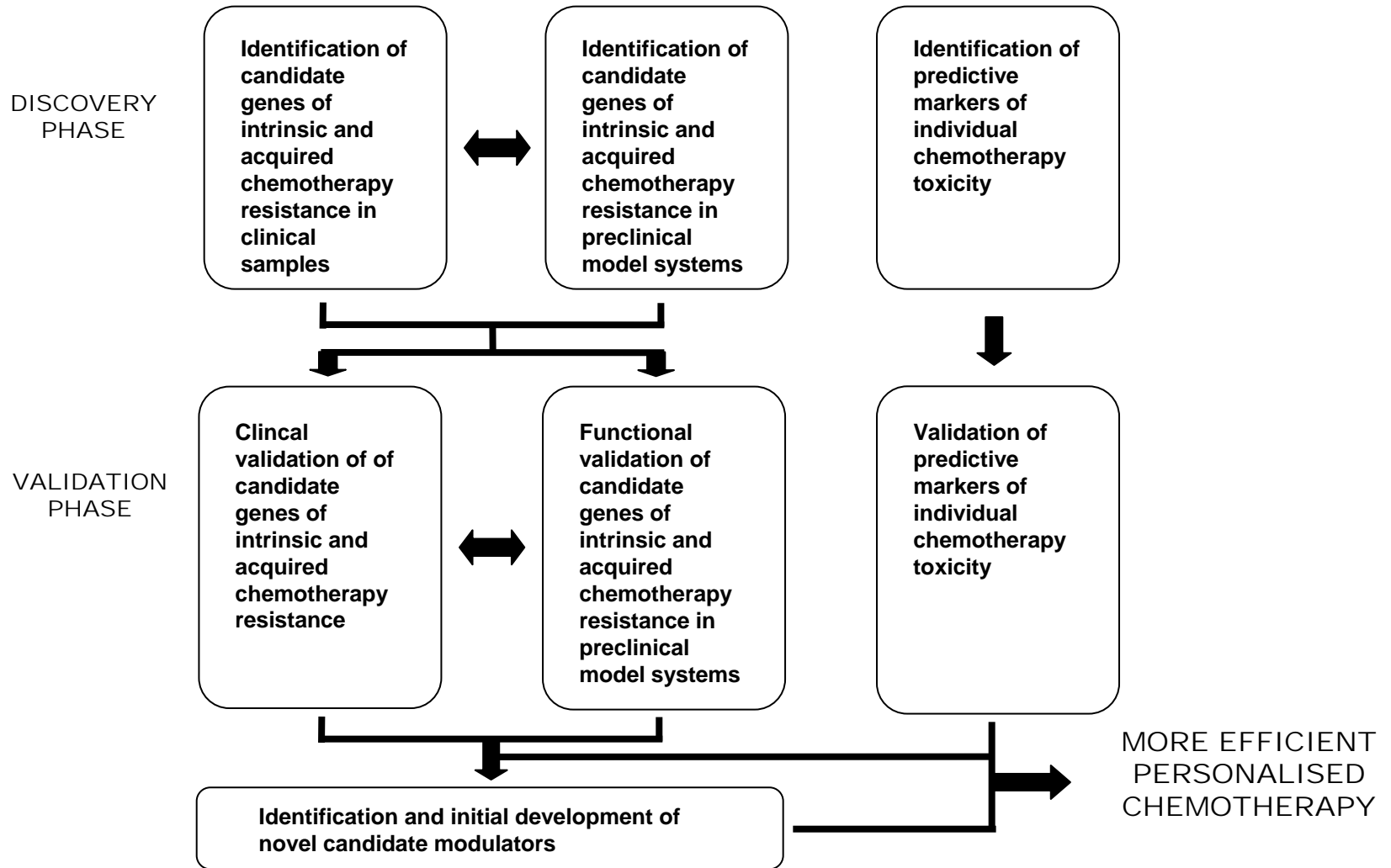
1. Karolinska Institutet	KI	<i>J Hansson, S Linder, Y Pawitan, B Zhivotovsky R Lewensohn</i>	Sweden
2. Institut Gustave Roussy	IGR	<i>V Lazar</i>	France
3. INSERM	INSERM	<i>G Kroemer, E Liaudet- Coopman</i>	France
4. Centro Nacional de Investigaciones Oncológicas	CNIO	<i>M Barbacid,</i>	Spain
5. Erasmus University	EU	<i>A Eggermont</i>	Netherlands

List of participants

6. Istituto Nazionale Tumori	INT	<i>G Sozzi, C Chiara D Delia , P Perego A Anichini, M Rodolfo</i>	Italy
7. Netherlands Cancer Institute	NKI	<i>P Borst, N van Zandwijk</i>	Netherlan ds
8. Linköping University	LiU	<i>C Petterson</i>	Sweden
9. Royal Institute of Technology	KTH	<i>J Lundeberg</i>	Sweden
10. University Hospitals Leuven	K.U. Leuven	<i>J van den Oord</i>	Belgium
11. Istituto Superiore di Sanità	ISS	<i>S Fais</i>	Italy

List of participants

12. Technische Universität München	TUM	<i>M Schmitt</i>	Germany
13. Cancer Research UK/Oxford	CRUK	<i>M Middleton</i>	United Kingdom
15. University of Manchester	UNIMAN	<i>G Margison F Blackhall</i>	United Kingdom
16. NorDiag	MBS	<i>A Eidefors</i>	Sweden
17. Eurogentec	EGT	<i>M C Beckers</i>	Belgium
18. EORTC	EORTC	<i>A Passioukov</i>	Belgium
19. Institut Mutualiste Montsouris	IMM	<i>P Validire</i>	France
20. Hôpital Tenon	APHP	<i>J Cadranet</i>	France



www.chemores.org