



**ISBER**

**International Society for Biological  
and Environmental Repositories**

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**ISBER 2004 annual meeting**

# Biorepositories in Clinical and Basic Research

**Perugia-Italy, Università degli Studi  
October 17th-20th, 2004**



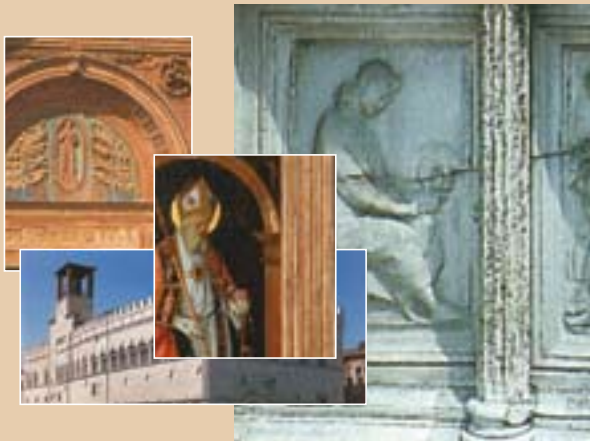


## Scientific Committee

Franco Aversa  
Anne Cambon-Thomsen  
Pasquale De Blasio  
Eliane Gluckman  
Eliane Gunter  
Robert Hanner  
Pierre Hainaut  
Manuel Morente  
Marco Pierotti  
Cathy Ratcliffe  
Paolo Rebullà  
Peter Riegman  
Steve Shaw  
Angelo Vescovi

## Under the Patronage of

Ministero della Salute  
Ministero dell'Istruzione, dell'Università e della Ricerca  
Regione Umbria  
Provincia di Perugia  
Comune di Perugia  
Università degli Studi di Perugia



# Chairpersons and Confirmed Speakers



**Franco Aversa**, *Perugia, ITALY*  
**Roger L. Aamodt**, *Virginia, USA*  
**Phil Baird**, *Maryland, USA*  
**Ida Biunno**, *Milan, ITALY*  
**Marianna Bledsoe**, *Bethesda, USA*  
**Anne Cambon-Thomsen**, *Toulouse, FRANCE*  
**Howard Cann**, *Paris, FRANCE*  
**Luca Cavalli-Sforza**, *Stanford, California USA*  
**Raymond Cypess**, *Virginia, USA*  
**Pasquale De Blasio**, *Milano, ITALY*  
**Lisa Devereux**, *Melbourne, AUSTRALIA*  
**Douglas A. Fugman**, *New Jersey, USA*  
**Samy Gaiji**, *Rome, ITALY*  
**William E. Grizzle**, *Alabama, USA*  
**Pierre Hainaut**, *Lyon, FRANCE*  
**Robert Hanner**, *New Jersey, USA*  
**Kirstine Knox**, *UK*  
**Colin McKerlie**, *Ontario, CANADA*  
**Meredith Lane**, *Copenhagen, DENMARK*  
**Paola Leone**, *New Jersey - USA*  
**Fabio Marazzi**, *Bergamo, ITALY*  
**Renato Mariani Costantini**, *Chieti, ITALY*  
**Massimo F. Martelli**, *Perugia, ITALY*  
**Ted Mifflin**, *Virginia, USA*  
**Manuel Morente**, *Madrid, SPAIN*  
**Mark Perkins**, *Geneva, SWITZERLAND*  
**Cesare Peschle**, *Rome, ITALY*  
**Marco Pierotti**, *Milano, ITALY*  
**Ian Pope**, *Atlanta, USA*  
**Cathy Ratcliffe**, *Oxford, UK*  
**Paolo Rebulli**, *Milano, ITALY*  
**Peter Riegman**, *Rotterdam, THE NETHERLANDS*  
**Beppe Rocca**, *Milan - ITALY*  
**Aldo Scarpa**, *Verona, ITALY*  
**Gitte Petersen**, *Copenhagen, DENMARK*  
**Francesco Salamini**, *Köln, GERMANY*  
**Steve Shaw**, *Atlanta, USA*  
**Frank Simione**, *Virginia - USA*  
**Jean Swings**, *Gent, BELGIUM*  
**Ivana Teodorovic**, *Brussels, BELGIUM*  
**Timothy J. Triché**, *Los Angeles, USA*  
**Anne Linda Van Kappel**, *Paris, FRANCE*  
**Angelo Vescovi**, *Milan, ITALY*

# Scientific Scientific Program Program



02.00 p.m. **Opening of Secretariat** - Università degli Studi di Perugia, Aula Magna

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Sunday 17<sup>th</sup> October

Sala dei Notari, Palazzo dei Priori

03.00 p.m. Opening of  
**ISBER 2004 Annual Meeting**  
**Francesco Bistoni**, Chancellor of University of Perugia  
**Gaia Grossi**, Deputy of Research, Umbria Region  
**Renato Locchi**, Mayor of the City of Perugia  
**Robert Hanner**, past ISBER President  
**Pasquale De Blasio**, Organizing Committee

04.00 p.m. **Opening Session**  
*CHAIR: Massimo F. Martelli*

04.00 p.m. Genetics of Human Population  
**Luca Cavalli-Sforza**

05.00 p.m. The HGDP-CEPH Human Genome Diversity Cell Line Panel: A  
Resource for Human Population Genetic Research  
**Howard Cann**

05.30 p.m. Origin of Agriculture and Shaping of Human Society  
**Francesco Salamini**

06.00 p.m. *Visit to the National Art Gallery of Umbria*

08.00 p.m. *Dinner for invited speakers*



Monday 18<sup>th</sup> October

Università degli Studi di Perugia, Aula Magna

- 08.00 a.m. Registration  
ISBER 2004 European Meeting Opening  
**Robert Hanner**, *ISBER Past President*  
**Pasquale De Blasio** *Organizing Committee*

**Session I**

**HUMAN CELLS and TISSUES in CLINICAL USAGE**

*CHAIRS: Franco Aversa, Paolo Rebulla*

- 08.30 a.m. Translational Research in Cancer  
**Kirstine Knox**
- 08.50 a.m. The Rutgers University Cell and DNA Repository.  
Resources for Human Genetics Research  
**Douglas A. Fugman**
- 09.10 a.m. Cord Blood Cells and their use in Cellular Therapy  
**Paolo Rebulla**
- 09.30 a.m. Cell & Gene Therapy  
**Paola Leone**
- 09.50 a.m. **Exhibit Opening** (*Coffee Break*)

## SYMPOSIUM ON **COLLECTIONS NETWORKING**

*CHAIRS: Manuel Morente, Ivana Teodorovic*

- 10.30 a.m. Networking and Information Technology Infrastructure  
**Ivana Teodorovic**
- 10.50 a.m. The Global Biodiversity Information Facility  
**Meredith Lane**
- 11.10 a.m. Networking of Tumor Banks  
**Manuel Morente**
- 11.30 a.m. The International Bladder Cancer Network (IBCN)  
The Scientific Environment to Give Tissue Banking a Meaning  
**Peter Goebell**
- 11.45 a.m. The Western Australian Biospecimen Network  
**Nikolajs Zeps**
- 12.00 a.m. Rare Diseases Patiens: more than Biological Sample Providers  
**Fabrizia Bignami**
- 12.15 a.m. AIDS and Cancer Specimen Resource: a Resource for HIV Research  
**Sylvia Silver**
- 12.30 a.m. kConFab: Quality Control of Biorepository Samples  
**Heather Thorne**
- 12.45 a.m. The Value of a Specific Alzheimer's Disease (AD) Specimen Bio Bank  
**Roberto Dominici**
- 01.00 p.m. *Lunch Break*

## *Session II*

### **HUMAN CELLS and TISSUES in RESEARCH**

*CHAIRS: Marianna Bledsoe, Cathy Ratcliffe*

- 02.00 p.m. Tumor Repositories in the U.S.  
**William E. Grizzle**
- 02.20 p.m. Tumor Tissue Collection in Europe  
**Peter Riegman**
- 02.40 p.m. Tumor Tissue Collections in Australia; the Australasian Biorepository Network  
**Lisa Devereux**
- 03.00 p.m. Gastric and Pancreas Tumor Tissues collection  
**Aldo Scarpa**
- 03.30 p.m. *Coffee Break*

- 04.00 p.m. QA/QC in the Norwegian Mother and Child Cohort Study -  
Assessment of Freeze-thaw Cycles on Markers in Plasma  
**Liv Paltiel**
- 04.15 p.m. The Chernobyl Tissue Bank - Integrating International Research on  
Thyroid Cancer  
**G.A. Thomas**
- 04.30 p.m. Challenges of Scientific Data Management for Large Epidemiology  
Studies  
**Marianne K. Henderson**
- 04.45 p.m. Tubitak DNA/Cell Bank – Ankara, Turkey  
**Meral Özgüç**
- 05.00 p.m. Addressing The Legal and Ethical Challengers of Repository Research  
**Marianna J. Bledsoe**
- 05.15 p.m. Legal and Ethical Aspects of Tissue Banking: Governance  
of Repositories and Research  
**Evert-Ben van Veen**
- 05.30 p.m. **ISBER Business Meeting** “The International Dimension of ISBER”
- 06.00 p.m. **Poster Session**
- 07.00 p.m. *Wine, Cheese and Chocolate Dinner compliments of Angelantoni  
Industrie S.p.a. and GENVAULT Corporation*

**Tuesday 19<sup>th</sup> October**      Università degli Studi di Perugia, Aula Magna

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**Session III**  
**BIOREPOSITORIES for PUBLIC HEALTH and EPIDEMIOLOGY**  
CHAIRS: **Raymond Cypess, Pierre Hainaut**

- 08.30 a.m. Diagnostics Research and Development (DRD)  
**Mark Perkins**
- 08.50 a.m. Tissue Banking and Molecular Tumor Classification  
**Marco Pierotti**
- 09.10 a.m. Biodefense and Emerging Infections: the Management Challenge  
**Frank Simione**
- 09.30 a.m. The Use of Banked Tissue and DNA for Disease Susceptibility  
Determination - an Emerging Molecular Epidemiology Paradigm  
**Timothy J. Triché**

09.50 a.m. *Coffee Break*

## SYMPOSIUM ON **NEW TECHNOLOGIES AND AUTOMATION**

*CHAIRS: Ted Mifflin, Steve Shaw*

10.30 a.m. Automated System for Nucleic Acids: Extraction, Purification and Storage

**Ida Biunno**

10.45 a.m. Freezer Technology Review

**Steve Shaw**

11.00 a.m. Repository Automation

**Ted Mifflin**

11.15 a.m. Automated Environment for the Storage of Biological Materials

**Mauro Zenobi**

11.30 a.m. Specimen Management for High-Throughput Genotyping

**Jim B. Vaught**

11.45 a.m. BCCA's Tumor Tissue Repository: a Powerful Resource in our Fight Against Cancer

**Juergen R. Vielkind**

12.00 a.m. Distributed Specimen Repositories: Using Webs Services and Simple Object Access Protocol (SOAP) to Create a Modular Sample Management Software Architecture

**John Loyer**

12.15 a.m. CFD Analysis of Cell Vitrification Process

**Renzo Marchesi**

12.30 a.m. Secure Web-Based tissue Inventory and Tracking System for Non-Consented Collections

**Debbie S. Jacobs**

12.45 a.m. A Multi-Disciplinary Approach to Honest Broker Services: a Novel Model

**Rajiv Dhir**

01.00 p.m. *Lunch Break*

***Session IV***

**ROUND TABLE on SAFETY and ETHICAL ASPECTS of the USE of HUMAN TISSUES and CELLS**

*CHAIRS: Kirstine Knox, Cesare Peschle*

- 02.00 p.m. Medical Practice: Future Perspectives  
**Beppe Rocca**
- 02.20 p.m. The Social And Ethical Issues of Human Biobanks for Genomics and Non Genomics Applications: is There a Difference?  
**Anne Cambon-Thomsen**
- 02.40 p.m. U.S. Legal and Ethical Issues Related to the use of Human Specimens  
**Roger L. Aamodt**
- 03.00 p.m. Stem Cell Research: Adult Vs Embryonic Stem Cells and their use in Cellular Therapy  
**Angelo Vescovi**
- 03.20 p.m. Italian Stem Cell Research Program  
**Cesare Peschle**
- 03.40 p.m. The European Human Tissue Directive: a Comparison with US Regulations  
**Fabio Marazzi**
- 04.00 p.m. Open Discussion

***SOCIAL PROGRAM***

- 04.50 p.m. Transfer to ASSISI  
Visit to the Saint Francis Basilica
- 08.00 p.m. ***Gala Dinner in Assisi***

Wednesday 20<sup>th</sup> October Università degli Studi di Perugia, Aula Magna

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**Session V**

**CONTRIBUTED ASPECTS of REPOSITORY QA/QC**

*CHAIR: Peter Riegman*

- 08.30 a.m. Lymphoblasts Biorepository: Building Up Management and Quality Control to Improve Medical Research  
**Giuliana Saltini**
- 08.45 a.m. Cell Culture Collection and Quality Controls  
**Maura Ferrari**
- 09.00 a.m. A Study of ISO 9001,2000 Certification in a Biobank  
**Fotini Betsou**

**Session VI**

**NON-HUMAN COLLECTIONS**

*CHAIRS: Robert Hanner, Jean Swings*

- 09.15 a.m. Recent International Initiatives Affecting Microbial Culture Collections  
**Jean Swings**
- 09.35 a.m. International Plant Genetic Resources Institute  
**Samy Gaiji**
- 10.00 a.m. *Coffee Break*
- 10.20 a.m. Synthesis of Systematic Resources  
**Gitte Petersen**
- 10.40 a.m. The Drug Research Repository  
**Phil Baird**
- 11.00 a.m. The Canadian Mutant Mouse Repository: a Germ Cell, Embryo, and Tissue Biorepository for Functional Annotation of the Genome  
**Colin McKerlie**
- 11.20 a.m. Genetics and Anthropology  
**Renato Mariani Costantini**
- 11.40 a.m. DNA Barcodes and the Integrated Primate Biomaterial and Information Resource (IPBIR)  
**Robert Hanner**

12.00 a.m. **COURSE ON CRYOBIOLOGY**  
*Organised by: Anne Linda Van Kappel, Ian Pope*

01.00 p.m. **COURSE ON STEM CELLS**  
*Organised by: Stem Cell Consortium*  
*Angelo Vescovi, Paolo Rebulla*



# Optional Optional Program



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## Wednesday 20th October

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- 02.00 p.m. Transfer to Massa Martana
- 02.30 p.m. *Light lunch offered by Angelantoni*
- 03.30 p.m. Visit to the Angelantoni Industrie Facility  
Host: GianLuigi Angelantoni  
*President of Angelantoni Industrie SpA*
- 05.30 p.m. Return to Perugia



# General Information

For Application Form, Hotel Booking, Exhibitor Prospectus, Call for Papers, please go to [http://www.csccongressi.it/pag\\_congressi.html](http://www.csccongressi.it/pag_congressi.html)

## Umbria

Umbria is the only region of the Italian peninsula with no coastline. The geographical heart of Italy, Umbria is closed in by Tuscany to the west, Emilia Romagna to the north, the Marches to the east, and Lazio (Latium) to the south.

Umbria is divided into two provinces (Perugia and Terni). Its population amounts to roughly 800,000 people that live in 92 comuni spread over an area of 8,500 sq. km (3,280 sq. miles).

## Perugia

Situated on a hill, Perugia has a population of just 150,000 and is connected to the rest of the country by a well developed network of roads. The two major arterial roads are the SS3bis (also called E45), which runs along the Tiber valley, and the SS75bis, called "Raccordo Perugia-Bettolle". The A1 The Rome - Florence motorway (the "Autostrada del Sole"), skirts the western borders of Umbria and is connected to Perugia by the "Raccordo Perugia-Bettolle".

## Getting to Perugia by car

From the north (Milan, Florence), the best exit for Perugia on the A1 motorway at Valdichiana,

where the superstrada SS75bis branches into Umbria at Lake Trasimeno and continues towards Perugia. From Rome travelling northwards along the A1 motorway the best exit for reaching Perugia is at Orte, which is connected to the regional capital at first by the ss204 to Terni and then by the E45 (or SS3bis) from Terni to Perugia.

The SS75bis has five exits for Perugia (from North): Perugia-Ferro di Cavallo, Perugia-Madonna Alta (best to reach the “Renato Curi” football stadium) , Perugia-San Faustino (best to reach the main railway FS station, also good for the old town center), Perugia-Prepo (good to reach the old town center) and Perugia-Piscille (good to reach the old town center).

### Getting to Perugia by train

From the North, the main line between Florence and Rome has a station at Terontola (on the branch line to Lake Trasimene, Perugia, Assisi, Spello, and Foligno), so coming from Florence take one of the dozen daily trains to Terontola/Cortona (1’/2 hr.) that meet up with a connecting train to Perugia (35 to 50 min.).

From the South, the main line between Rome and Ancona has a station at Foligno (on the branch line to Spello, Assisi, Perugia and Lake Trasimene), so coming from Rome, take one of the nine daily trains on the line to Ancona, stop at Foligno (1 hr., 40 min. to 2 hr.), where you can transfer to a Perugia-bound train (30 to 35 min.).

### Getting to Perugia by plane

Central Italy’s closest major airports are in Rome, Pisa, and Florence.

Perugia is not far from Rome, Pisa and Florence and can be



easily reached from these two cities by train, bus or car.

- The major international gateway is Rome's Aeroporto Leonardo da Vinci, known as Fiumicino (FCO) (30 km/19 mi southwest of Rome, PHONE: 06/6595-3640)
- Pisa's Aeroporto Galileo Galilei (PSA) (12 km/7 mi south of Pisa and 80 km (50 mi) west of Florence, PHONE: 050/500707) has flights from London, Amsterdam, Brussels, and Paris, as well as connections to Rome and Milan.
- Florence's Aeroporto A. Vespucci, known as Peretola (FLR) (10 km/6 mi northwest of Florence, PHONE: 055/3061700), has connections to Brussels, Paris, London, Rome, and Milan.;

Flying time is approximately 9 hours from New York, 11 hours from Chicago, 12 hours from Dallas (via New York), 12 hours from Los Angeles, 2 hours from London (to Milan), and 24 hours from Sydney.

The solution that we suggest to you to reach Perugia by air is to land to Rome and to continue for Perugia with bus.

#### Perugia Sant' Egidio Airport

The small airport at Sant'Egidio, 12km from Perugia, is reachable by bus from the city from the bus stop in Piazza Italia and from the main railway station (see box). Parking at the airport is free of charge. All the chief national and international car rental companies have offices at the airport. National flights depart from Sant'Egidio for Milan Malpensa airport.

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# Useful Useful Numbers Numbers

## Taxi

Radio taxi: 075 500-4888

## Bus lines in Perugia

*From Piazza Morlacchi (city centre) to the conference venue:*

**LINES 14-16-89:** every 15 minutes

*From the train station to the conference venue:*

**LINE 1:** every 20 minutes

## Bus to Fiumicino airport

**SULGA :** 075 500-9641

*From Piazza Partigiani on weekdays:*

Departures at: 6:30 / 8:00 / 9:00 am

*From Piazza Partigiani on holidays:*

Departures at: 7:30 / 8:30 am

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## SCIENTIFIC SECRETARIAT



# ISBER

**International Society for Biological  
and Environmental Repositories**

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## ORGANIZING SECRETARIAT



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