

AIMS

The incidence of renal diseases in the world population has grown at such an extent that we can talk of a pandemic. Most renal diseases evolve towards chronic and terminal renal failure. Etiology is different, both known and unknown. No drugs are available to prevent the evolution towards renal failure, a condition requiring dialysis and transplantation. Stem cells are a reasonable hope but the research has just begun.

A research network in this field, KidStem, has been active for the last years connecting all European Centres working in the field. KidStem annual meetings have offered a valuable contribution to establish research programmes and foster exchanges among scientists. We therefore invite our colleagues to join us in Genoa for a further meeting.

Local Organizing Committee

Chiara Gangemi, Alessandro Casale

RenalChild Foundation
c/o Nephrology Department
IRCCS Istituto G. Gaslini, Genoa
fmr@ospedale-gaslini.ge.it

Organizing Secretariat

Maria Caterina Cogorno

C.I.S.E.F.- Centro Internazionale di Studi e Formazione
"Germana Gaslini"
c/o Direzione Scientifica, IRCCS Istituto G. Gaslini
L.go G. Gaslini, 5, 16147 Genoa, Italy
tel.: 010 5636.554/.805; fax: 010 3776590 e-mail:
caterinacogorno@ospedale-gaslini.ge.it

sito-web: www.stemcells-kidney2010.sispge.com

**International Centre for Studies and Training
(CISEF) "GERMANA GASLINI"**

Director: Antonio Infante

IRCCS ISTITUTO G. GASLINI

Scientific Director: Lorenzo Moretta

Scientific Committee of the Meeting

Lorenzo Moretta, Rosanna Gusmano

Gian Marco Ghiggeri

IRCCS Istituto G. Gaslini, Genoa

Invited Speakers and Chairs

Chiara Alfarano, Toulouse

Lara Ballerini, Florence

Jan Ulrich Becker, Hannover

Francesca Bianchi, Bologna

Benedetta Bussolati, Turin

Raquel Carvalhosa, Turin

Patrizia Comoli, Pavia

Antonio Dal Canton, Pavia

Jamie Davies, Edinburgh

Loreto Gesualdo, Foggia

Barbara Imberti, Bergamo

Uta Kunter, Aachen

Maria Kuzma-Kuzniarska, Liverpool

Edoardo Lanino, Genoa

Alberto Magnasco, Genoa

Alberto Marmont du Haut Champ,
Genoa

Federica Mezzabotta, Padova

Marina Morigi, Bergamo

Patricia Murray, Liverpool

Aleksandra Rak-Raszewska, Liverpool

Teresa Rampino, Pavia

Egon Jacopo Ranghini, Liverpool

Giuseppe Remuzzi, Bergamo

Paola Romagnani, Florence

Cinzia Rota, Bergamo

Francesco P Schena, Bari

Nicol Siegel, Wien

Elisabetta Traggiai, Genoa

Seppo Vainio, Oulu

Alessandro Valli, Ithaca, USA

Arianne van Koppen, Utrecht



Meeting on STEM CELLS AND THE KIDNEY



Scientific Committee
Lorenzo Moretta, Rosanna Gusmano
Gian Marco Ghiggeri
IRCCS Istituto G. Gaslini, Genoa

Under the auspices of the
Regione Liguria
Municipality of Genoa
Ordine Provinciale dei Medici Chirurghi
e degli Odontoiatri di Genova

June 18-19, 2010

Villa Quartara, Badia della Castagna
Genoa, Italy



Istituto Giannina Gaslini

Friday, June 18, 2010

- 8.30 Registration
9.00 Welcome address
L. Moretta, R. Gusmano
- Session 1 - Chair: A. Dal Canton**
- 9.15 Hematopoietic stem cell transplantation for severe autoimmune diseases
A. Marmont du Haut Champ
- 9.45 Renal tissue engineering: bridging the gap between stem cells and functional tissue
J. Davies
- 10.15 The kidney regeneration: the good, the bad and the ugly
P. Romagnani
- 10.45 Stem cells: one truth or more than one?
G. Remuzzi
- 11.15 *coffee break*
- 11.45 The potential of small chemical functional groups for directing the differentiation of kidney stem cells in vitro
P. Murray
- 12.15 Mesenchymal stem cells in acute kidney injury: a new therapeutic tool?
M. Morigi
- 12.35 Notch activation regulates the balance between injury and regeneration in glomerular disorders
L. Ballerini
- 12.55 Novel Insights in the modulation of murine embryonic kidney development using interactions with biofunctional matrices
D.D.R. Sebinger
- 13.05 Methods for decellularizing embryonic and adult murine kidneys
A. Ofenbauer
- 13.15 *lunch*
- Session 2 - Chair: J. Davies**
- 14.15 Potential role of resident adult stem cells in acute tubular damage
F.P. Schena
- 14.45 Targetting the fate of nephron forming stem cells
S. Vainio

- 15.15 Mouse embryonic stem cells derived mesoderm displays nephrogenic potential and generate functional proximal tubule cells
A. Rak-Raszewska
- 15.35 Evaluation of the expression profile and development potential of mouse kidney stem cells
E.J. Ranghini
- 16.00 *tea break*
- 16.30 Protective effect of mesenchymal stromal cells in experimental renal transplantation
T. Rampino
- 16.50 IFN- γ dependent inhibition of B cell activation by bone marrow derived mesenchymal stem cells in a murine model of systemic lupus erythematosus
E. Traggiai
- 17.00 Human amniotic fluid stem cells accelerate recovery of acute kidney injury and prolongs survival in mice
C. Rota
- 17.10 Transplanted embryonic kidneys develop and contribute to kidney regeneration in a rat model of chronic renal diseases
B. Imberti
- 17.20 Embryoid body formation of human amniotic fluid stem cells depends on mTOR
A. Valli
- 17.30 Discussion
18.00 End of session

Saturday, June 19, 2010

- Session 3 - Chair: G. Remuzzi**
- 8.30 Renal stem cells: mechanisms of plasticity and tissue repair
B. Bussolati
- 9.00 Contribution of human amniotic fluid stem cells to in vitro renal tissue formation depends on mTOR
N. Siegel
- 9.30 Proteomic profile of adult stem cells
L. Gesualdo
- 10.00 New synthetic molecules and mesenchymal stem cells for the treatment

- of acute renal injury
F. Bianchi
- 10.30 The effect of stem cells administration in a model of chronic renal failure
A. van Koppen
- 10.50 *coffee break*
- 11.20 Exploiting the immunomodulatory effects of mesenchymal stromal cells for the clinical practice
P. Comoli
- 11.40 Mesenchymal stem cells and chronic uremia: slow intoxication or sudden death?
U. Kunter
- 12.00 Nephrogenic potential of bone marrow-derived mesenchymal stem cells
M. Kuzma-Kuzniarska
- 12.10 Short and long-term effects of bone marrow mesenchymal stem cells in post-ischemic kidney diseases
C. Alfarano
- 12.20 Podocyte replacement by bone marrow derived progenitors: of mice and men (and rats)
J. U. Becker
- 12.30 Long term outcome of a double bone marrow and kidney transplantation in a child with Fanconi anemia
E. Lanino
- 12.40 A stem cell biology viewpoint on the origin of nephrocalcinosis
F. Mezzabotta
- 12.50 MSC mitochondrial transfer: a possible protective effect against ADR toxicity in podocytes
A. Magnasco
- 13.00 Effect of rapamycin on CD133+ progenitor cells from polycystic kidneys
R. Carvalhosa
- 13.10 Discussion
- Quality assessment questionnaire and CME Test Release of certificates of attendance Closing remarks*

13.30 *Lunch*

GENERAL INFORMATION

Registration

The course is open to nephrologists, pediatricians, medical geneticists and biologists, researchers. 80 applicants will be admitted.

Deadline for registration: May 8, 2010

Fill in the registration form available at the course website and return it to the organizing secretariat.

Registration fees

The fee of euros 200,00+VAT20% (150,00+VAT20% for PhD students and post-docs under 35 years of age, 50,00+VAT20% for one-day attendance and for IGG personnel) covers: access to scientific sessions, abstracts, 3 coffee breaks, 2 lunches and attendance certificate.

Official language: English

Venue

Villa Quartara, Badia Benedettina della Castagna
Via Romana della Castagna 11 A, 16148 Genoa, Italy.

How to reach the venue

Plane: from the International Airport Cristoforo Colombo, shuttle bus n. 100 (runs every hour) takes you to Genova Principe railway station, where you can take a local train to Genova Brignole or a taxi to Via Romana della Castagna.

Train: get off at Genova Brignole railway station, take bus n. 17 and get off in Corso Europa, in front of Via Romana della Castagna.

Car: motorway exit Genova-Nervi, take Corso Europa westwards, take the overpass and drive eastwards, pass Hotel AC and ESSO gas station on the right, after 50 mt. turn right into Via Romana della Castagna, go straight 80 mt., enter the gate on the right leaving the church on the left and follow signs for parking.

Accommodation

Please make your arrangement well in advance.

Special rates have been arranged at the Hotel AC****Genova-Quarto +39-010-3071180 located at walking distance from the Badia. Other suggested hotels:

Hotel Iris*** Genova-Quarto +39-010-3773914

Hotel Astor**** Genova-Nervi +39-010-329011

Always mention the Meeting Stem Cells and the Kidney.

Italian CME credits

Italian CME credits for medical doctors (pediatrics, nephrology, medical genetics) and biologists will be applied for.



ISTITUTO G.GASLINI

REGISTRATION FORM



Please fill in and return **BY FAX** to the Organizing Secretariat by **May 28, 2010**
Tel.: 010/5636.805/554, Fax: 010/3776590, e-mail: caterinacogorno@ospedale-gaslini.ge.it

Title of the event: Stem Cells and the Kidney
ID of the event: 921 **Italian C.M.E. ID n°: 693-10020229**
Venue: Villa Quartara, Badia della Castagna, Genoa, Italy
Date: June 18-19, 2010

Personal data:

NAME FAMILY NAME.....

Private address:

ZIP code.....Town.....Country.....

Tel...../..... Mobile..... Fax...../.....

e-mail.....

Institute.....

Work address:.....

ZIP code.....Town.....Country.....

Tel...../..... Mobile..... Fax...../.....

For Italian registrants only: For purposes of Continuing Medical Education accreditation, please provide the following information:

Data di nascita: _____ **Luogo di nascita:** _____

Codice fiscale: _____

Professione: _____ **Disciplina:** _____

Invoice/Receipt (Please specify to whom the invoice/receipt of your payment should be made out)

The invoice should be made out to

address.....N°.....Zip code.....Town.....P.IVA/CF.....

and sent to the: private work address other address :.....

Registration fee

The registration fee of euros 200,00+ VAT 20% (150,00+VAT 20% for PhD students and post-docs under 35 years of age, 50,00+VAT 20% for one-day attendance and IGG personnel) must be paid within 5 days after the confirmation of acceptance by the Organizing Secretariat.

Payment can be made by:

B) **Bank transfer** to: CISEF "Germana Gaslini" cc 11413/80, IBAN IT23B061750145500001141380, SWIFT/BIC CODE: CRGEITGG442

Please specify on the transfer "Registration for (the name of the event)" on behalf of (registrant's name).

Please send (preferably by fax) copy of the transfer once it has been ordered

All related banking costs are at the registrant's expenses

C) **Check** payable to CISEF "Germana Gaslini" and sent to the Organizing Secretariat with this form duly signed.

<p>ISTITUTO G.GASLINI</p>	<h1>REGISTRATION FORM</h1>	
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* The registration fee can be reimbursed only with a 5 days notice before the beginning of the event.

Privacy policy; (Art.13, Italian law 196/2003)

Your data will be stored in the optical archive of the Istituto G. Gaslini. CISEF will make use of the data provided exclusively for the purpose of the present event including the Italian Continuing Medical Education programme procedures. They will be forwarded to the Italian CME National Commission, stored in the CISEF database and used to keep you informed on relevant CISEF forthcoming events and in case of your future attendance at CISEF events.

Please tick the box if you wish we erase your data from the CISEF database.

The Centro Internazionale di Studi e Formazione "Germana Gaslini", via Romana della Castagna, 11, 16147 Genova is the holder of the data.

Date..... Signature.....