Registration & Fees

Registration is accepted online only through www.cartilage.org

All fees in Euros	Early Bird until May 31	Normal Fee June 1 – Sep 15	Onsite Fee from Sep 15
Junior Members, Residents,			
Students & Physiotherapists*	€ 190.00*	€ 290.00*	€ 340.00*
ICRS Members	€290.00	€ 390.00	€ 440.00
Non-ICRS Members	€ 390.00	€ 490.00	€540.00
Industry Associates	€ 450.00	€ 550.00	€ 600.00

* To be accompanied by a certificate signed by the head of department. Please send it to office@cartilage.org immediately after your registration.

Registration Cancellation & Name Change

Written notification is required for all congress cancellations and name changes. Notifications should be sent to the Cartilage Executive Office office@cartilage.org.

Refunds for cancellations are as follows:

50 % refund for cancellations before September 15, 2022. No refund thereafter. Name changes will be charged with a fee of €100.00.

Included in the Registration Fee:

- Access to all sessions & industry exhibition
- 1 lunch on Friday
- Course registration material

• 3 coffee breaks • Farewell reception • Certificate of attendance

May 31, 2022

July 15, 2022

September 15, 2022

September 15, 2022

September 16, 2022

Payment

Fees are in Euros and are accepted as follows: Bank Transfer, Credit cards (VISA, AMEX, Mastercard)

ICRS Membership Benefits

Attendees who apply for ICRS membership right before registration will immediately benefit from the highly reduced members' fee. Membership applications should be done online before course registration. Please note that ICRS Members who are not in good standing with their membership dues 2022 would be charaed with the non-member fee.

Important Dates

Deadline Course Registration Early Fee
Hotel Reservation Deadline
Deadline Course Registration Normal Fee
Deadline Cancellation of Registration (refund 50%)
Onsite Fees as from

Accommodation

For your convenience, the ICRS has made a major commitment to the City of Bologna in order to secure a sufficient block of conveniently located hotel rooms in the city centre at competitive rates. For more information and hotel reservation, please visit www.cartilage.org.

Faculty & Course Dinner

Take in the success of the ICRS Focus Meeting while enjoying the typical Italian atmosphere and food. Seize this unique opportunity and get together with our faculty experts. Extend your networking with your international peers and colleagues in an inspiring ambience. Fee: \notin 80 (food & drinks included).

Course Language

English, no simultaneous translation will be available.

Updated Information

Please note that this is a preliminary programme. For updated information (topics, faculty, registration fees, etc.) please visit our website www.cartilage.org frequently.

Industry Support & Exhibition

The Industry is invited to contribute and to support this important event. Affordable tabletop exhibits and sponsorship opportunities are available to expose and enhance your organization's visibility. Interested companies please contact Anouk Bürgisser-Marti (anouk.buergisser@cartilage.org).

Hot Topics Cells (autologous, heterologous from different sources, extracellular vesicles, secretome) Growth factors (PRP) **Biomaterials** Medical devices Intellectual property

Diamond Partners



Follow us on:

Preliminary Programme

#ICRSFOCUSMEETING

Italy Bologna October 6-7, 2022

ICRS Focus Meeting

Ortho-Biologics From the Laboratory to the Clinics: New Insight into **Translational Research toward Bio-Orthopaedics**

MILLI

P TO ME TO A DISTURBANCE

International Cartilage Regeneration & Joint Preservation Society

www.cartilage.org

WELCOME

Regenerative Medicine is a cutting-edge field that works to restore structure and function of damaged tissues. This therapeutic strategy offers promising results in the field of orthopaedics and its goal is to use the innate healing ability of a patient's own body to regenerate tissues. There are many different option treatments to address orthopaedic injuries. The ideal one should be minimally invasive, natural, able to restore original functions and with long-lasting results.

Even if different therapeutic regenerative strategies are applied by several orthopaedics in specialized Institutes, the clinical outcome is not always comparable and the scientific rationale at the basis of their application must be still clear and in-depth identified. These aspects will be discussed during the Focus Meeting by international basic researcher opinion leaders and orthopaedic surgeons' practitioners. Our programme will include hot topics on cells (autologous, heterologous from different sources, extracellular vesicles, secretome), growth factors (PRP), biomaterials and medical devices and some issues related to the intellectual properties discussed by experts in this field.

> Moroni Luca (IT) Murphy Mary (IE) Narcisi Roberto (NL) Nehrer Stefan (AT) Noel Daniele (FR) Perut Francesca (IT) Petretta Mauro (IT) Russo Arcangelo (IT) Salamanna Francesca (IT) Saris Daniel (US) Sciarretta Fabio (IT) Tampieri Anna (IT) Vannini Francesca (IT)

We are looking forward to welcoming you to beautiful Bologna! Brunella Grigolo & Stefano Zaffagnini, Course Chairs

International Faculty (tentative)

Andriolo Luca (IT)	Desando Giovanna (IT)	Moroni Luca (IT)
Baldini Nicola (IT)	Di Martino Alessandro (IT)	Murphy Mary (IE)
Barbanti Brodano Giovanni (IT)	Donati Davide (IT)	Narcisi Roberto (NL)
Barry Frank (IE)	Faldini Cesare (IT)	Nehrer Stefan (AT)
Berruto Massimo (IT)	Fazio Nicola (IT)	Noel Daniele (FR)
Boffa Angelo (IT)	Filardo Giuseppe (IT)	Perut Francesca (IT)
Brittberg Mats (SE)	Fini Milena (IT)	Petretta Mauro (IT)
Buda Roberto (IT)	Gobbi Alberto (IT)	Russo Arcangelo (IT)
Buzzi Marina (IT)	Grande Daniel (US)	Salamanna Francesca (I
Chubinskaya Susan (US)	Grigolo Brunella (IT)	Saris Daniel (US)
Cucchiarini Magali (DE)	Jorgensen Christian (FR)	Sciarretta Fabio (IT)
De Caro Francesca (IT)	Kon Elizaveta (IT)	Tampieri Anna (IT)
De Girolamo Laura (IT)	Lisignoli Gina (IT)	Vannini Francesca (IT)
Dallari Dante (IT)	Lucarelli Enrico (IT)	Zaffagnini Stefano (IT)
Delbarba Andrea (IT)	Malda Jos (NL)	-
Della Villa Stefano (IT)	Martin Ivan (CH)	

Course Chairs

Brunella Grigolo & Stefano Zaffagnini, Rizzoli Orthopaedic Institute, Bologna, Italy

Local Organizing Committee

Brunella Grigolo & Stefano Zaffagnini, Rizzoli Orthopaedic Institute, Bologna, Italy Livia Roseti & Giuseppe Filardo, Rizzoli Orthopaedic Institute, Bologna, Italy

Organizing Office

Cartilage Executive Office (CEO) GmbH Spitalstrasse 190, House 3 | CH-8623 Wetzikon, Switzerland Phone: +41 44 503 73 70 | Email: office@cartilage.org

Course Venue

Istituto di Ricerca Codivilla Putti	
Istituto Ortopedico Rizzoli	
Via di Barbiano 1/10 IT-40136 Bologna, Italy	
E-Mail: info_urp@ior.it Website: http://www.ior.it/en/il-rizzoli	

PRELIMINARY PROGRAMME

Thursday, October 6, 2022

15:55–16:40	Coffee Break / Exhibition
16:40–18:30	Session 3: Pre-clinical and Clinical Evidence of Cell Transplantation in
10.10 10.00	Orthopaedics: "One Step" Procedures
	Moderators: Buda Roberto (IT) & Gabbi Alberta (IT)
3.1	Keynote Lecture: Fifteen Years' Experience with HA-BMAC Cartilage Repair in
	Registro Ecclore. This is the former of the second se
J.1	the Knee — Gobbi Alberto (IT)
	the Knee – <i>Gobbi Alberto (IT)</i> Clinical Application (BMC) – <i>Vannini Francesca (IT)</i>
3.2 3.3	the Knee — <i>Gobbi Alberto (IT)</i> Clinical Application (BMC) — <i>Vannini Francesca (IT)</i> The Stromal Vascular Fraction in the Treatment of Osteoarthritis:
3.2	Clinical Application (BMC) — <i>Vannini Francesca (IT)</i> The Stromal Vascular Fraction in the Treatment of Osteoarthritis:
3.2	Clinical Application (BMC) — <i>Vannini Francesca (IT)</i> The Stromal Vascular Fraction in the Treatment of Osteoarthritis: Lab Experience — <i>Desando Giovanna (IT)</i>
3.2 3.3	Clinical Application (BMC) — Vannini Francesca (IT) The Stromal Vascular Fraction in the Treatment of Osteoarthritis: Lab Experience — Desando Giovanna (IT) One-step Clinical Transplantation of Adipose Tissue for the Treatment of Knee
3.2 3.3 3.4	Clinical Application (BMC) — Vannini Francesca (IT) The Stromal Vascular Fraction in the Treatment of Osteoarthritis: Lab Experience — Desando Giovanna (IT) One-step Clinical Transplantation of Adipose Tissue for the Treatment of Knee Osteoarthritis — Di Martino Alessandro (IT)
3.2 3.3	Clinical Application (BMC) — Vannini Francesca (IT) The Stromal Vascular Fraction in the Treatment of Osteoarthritis: Lab Experience — Desando Giovanna (IT) One-step Clinical Transplantation of Adipose Tissue for the Treatment of Knee Osteoarthritis — Di Martino Alessandro (IT) The Vertebral Bone Marrow Clot as New and Advanced Autologous Cell Therapy for
3.2 3.3 3.4 3.5	Clinical Application (BMC) — Vannini Francesca (IT) The Stromal Vascular Fraction in the Treatment of Osteoarthritis: Lab Experience — Desando Giovanna (IT) One-step Clinical Transplantation of Adipose Tissue for the Treatment of Knee Osteoarthritis — Di Martino Alessandro (IT) The Vertebral Bone Marrow Clot as New and Advanced Autologous Cell Therapy for Spinal Fusion Procedures — Salamanna Francesca (IT)
3.2 3.3 3.4	Clinical Application (BMC) — Vannini Francesca (IT) The Stromal Vascular Fraction in the Treatment of Osteoarthritis: Lab Experience — Desando Giovanna (IT) One-step Clinical Transplantation of Adipose Tissue for the Treatment of Knee Osteoarthritis — Di Martino Alessandro (IT) The Vertebral Bone Marrow Clot as New and Advanced Autologous Cell Therapy for

Friday, October 7, 2022

08:30-10:20	Session 4: Bio-Orthopaedics: Focus on Cells
	Moderators: Barry Frank (IE) & Baldini Nicola (IT)
4.1	Keynote Lecture: State of the Art of Cell Transplantation in Bio-Orthopaedics — Barry Frank (IE)
4.2	Secretoma of MSC — De Girolamo Laura (IT)
4.3	Conditioned Medium-derived Extracellular Vesicles: the Crucial Impact of
	Cell Culture Parameters — Perut Francesca (IT)
4.4	Extracellular Vesicles from Mesenchymal Stromal Cells in the Treatment of Rheumatic
	Diseases — Noel Daniele (FR)
4.5	Gene Therapy — <i>Cucchiarini Magali (DE)</i>
4.6	Clinical Aspects on the Use of Different Kind of Cells – Kon Elizaveta (IT)
	Q&A / Discussion

PRELIMINARY PROGRAMME

10:20-11:00	Coffee Break / Exhibition
11:00-12:50	Session 5: Bio-Orthopaedics: Focus on Growth Factors
	Moderators: Chubinskay Susan (US) & Faldini Cesare (IT)
5.1	Keynote Lecture: State of the Art of Pre-Clinical Studies on Growth
5.2	Factors — <i>Chubinskaya Susan (US)</i> Influence of Senescence and Growth Factors on Cartilage (Re)generation — <i>Narcisi Roberto (NL)</i>
5.3	Growth Factors and Dose-controlled Ultrasound Stimulation Direct Stromal
	Cells Chondrogenic Differentiation in 3D Hydrogels? — Lisignoli Gina (IT)
5.4	Clinical Application of Platelet Rich Plasma (PRP) in Knee Osteoarthritis – Filardo Giuseppe (IT)
5.5	Platelet Rich Plasma from Umbilical Cord: Rational for its Use in
5.6	Orthopedic Application — <i>Buzzi Marina (IT)</i> EVs (Extracellular Vesides) and Growth Factors in Cartilage Repair — <i>Nehrer Stefan (AT)</i>
5.0	Q&A / Discussion
12:50-14:00	Lunch Break
14:00-15:50	Session 6: Bio-Orthopaedics: Focus on Scaffolds and 3D Models
	Moderators: Fini Milena (IT) & Tamperi Anna (IT)
6.1 6.2	Keynote Lecture: Clinical Application of Tissue Engineering – Saris Daniel (US)
6.2 6.3	Biofabrication and Biomaterials Design — <i>Malda Jos (NL)</i> New Biofabrication Technologies to Generate 3D Scaffolds Able to Control
0.0	Cell Fate — Moroni Lorenzo (IT)
6.4	3D Bioprinting Approaches for Muskuloskeletal Tissue Engineering and
	Modeling – Petretta Mauro (IT)
6.5 6.6	Human Biomimetic Grafts for Clinical Application — <i>Dallari Dante (IT)</i> Clinical Needs — <i>Zaffagnini Stefano (IT)</i>
0.0	Q&A / Discussion
15:50-16:30	Coffee Break / Exhibition
16:30-17:30	Session 7: Focus on Intellectual Property
	Moderators: Sciarretta Fabio (IT) & Fazio Nicola (IT)
7.1 7.2	IP Protection and Patent Strategy — <i>Delbarba Andrea (IT)</i>
	The IP Potection of Lipogems Instruments and Tissue — <i>Delbarba Andrea (IT)</i> Session 8: ICRS Meets SIAGASCOT
17:30-18:45	Moderators: Berruto Massimo (IT) & De Caro Francesca (IT)
8.1	BMAC for Knee OA: Also Subchondral? — <i>Boffa Angelo (IT)</i>
8.2	Microfragmented Adipose Tissue: Indications from a Large Experience — Russo Arcangelo (IT)
8.3	Osteochondral Scaffolds: What are the Limits? — Andriolo Luca (IT)
8.4	Rehabilitation after Orthobiological Treatments — <i>Della Villa Stefano (IT)</i> Q&A / Discussion
18:45-19:00	Final Remarks & Conclusion
19:00-20:30	Farewell Reception