Registration & Fees
Registration is accepted online only through www.cartilage.org.

All fees in Euros

<table>
<thead>
<tr>
<th>Category</th>
<th>Early Bird (until May 31)</th>
<th>Normal Fee (June 1 – Sep 15)</th>
<th>Onsite Fee (from Sep 15)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Members, Residents, Students &amp; Physiotherapists*</td>
<td>€190.00*</td>
<td>€290.00*</td>
<td>€340.00*</td>
</tr>
<tr>
<td>ICRS Members</td>
<td>€290.00</td>
<td>€390.00</td>
<td>€440.00</td>
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<tr>
<td>Non-ICRS Members</td>
<td>€390.00</td>
<td>€490.00</td>
<td>€540.00</td>
</tr>
<tr>
<td>Industry Associates</td>
<td>€450.00</td>
<td>€550.00</td>
<td>€600.00</td>
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* 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
- 3 coffee breaks
- Farewell reception
- Certificate of attendance

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 charged with the non-member fee.

Important Dates
- Deadline Course Registration Early Fee: May 31, 2022
- Hotel Reservation Deadline: July 15, 2022
- Deadline Course Registration Normal Fee: September 15, 2022
- Deadline Cancellation of Registration (refund 50%): September 15, 2022
- Onsite Fees as from: September 16, 2022

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 ambiance. Fee: €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
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#ICRSFOCUSMEETING

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

Italy
Bologna
October 6–7, 2022

Preclinical Program

Updated Information
PRELIMINARY PROGRAMME

Thursday, October 6, 2022

11:00–13:00 Optional guided tour of Rizzoli Orthopaedic Institute
11:00–18:30 Registration & Badge Pick-Up
13:30–13:45 Welcome Address
13:45–14:05 Session 1: Keynote Lecture
Moderator: Brunella Grigolo (IT)
1.1 Keynote Lecture on Bio-Orthopaedics: “State of the Art” — Grand Daniel (US)
Moderators: Perelli Giuseppe (IT), Zaffagnini Stefano (IT)
2.1 Keynote Lecture: Chondrocytes Transplantation — Brittberg Mats (SE)
2.2 Engineered Cartilage from Nasal Chondrocytes for Articular Cartilage Repair — Martin Ivan (CH)
2.3 Lab Experience (Mesenchymal Stem Cells from Bone Marrow) — Lucarelli Enrico (IT)
2.4 Clinical Application (Mesenchymal Stem Cells from Bone Marrow) — Donato Davide (IT)
2.5 Lab Experience (Mesenchymal Stem Cells from Adipose Tissue) — Murphy Mary (IE)
2.6 Clinical Application — Jorgensen Christian (FR)
Q &A / Discussion
15:55–16:40 Coffee Break / Exhibition
Moderators: Buda Roberto (IT) & Gobbì Alberto (IT)
3.1 Keynote Lecture: Fifteen Years’ Experience with HA-BMAC Cartilage Repair in the Knee — Gobbì Alberto (IT)
3.2 Clinical Application (BMAC) — Vannini Francesca (IT)
3.3 The Stromal Vascular Fraction in the Treatment of Osteoarthritis: Lab Experience — Desando Giovanna (IT)
3.4 One-step Clinical Transplantation of Adipose Tissue for the Treatment of Knee Osteoarthritis — Di Martino Alessandro (IT)
3.5 The Vertical Bone Marrow Claw: An Advanced Autologous Cell Therapy for Spiral Fusion Procedures — Lucarelli Enrico (IT)
3.6 Steps out from the Lab to the Patients in Spinal Surgery — Barbanti Brodano Giovanni (IT)
Q &A / Discussion
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 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 — Perelli Giuseppe (IT)
4.4 Extracellular Vesicles from Mesenchymal Stromal Cells in the Treatment of Rheumatic Diseases — Noel Daniel (FR)
4.5 Gene Therapy — Cecchi Maria (DE)
4.6 Clinical Aspects on the Use of Different Kind of Cells — Kon Elizaveta (IT)
Q &A / Discussion

20:00–23:00 Course / Faculty Dinner

PRELIMINARY PROGRAMME

10:20–11:00 Session 5: Bio-Orthopaedics: Focus on Growth Factors
Moderators: Chubinskaya Susan (US) & Faldini Cesare (IT)
5.1 Keynote Lecture: State of the Art of Pre-Clinical Studies on Growth Factors — Chubinskaya Susan (US)
5.2 Influence of Senescence and Growth Factors on Cartilage Regeneration — Nanci Roberto (NL)
5.3 Growth Factors and Bone-controlled Ultrasound Stimulation Direct Stem Cells Chondrogenic Differentiation in 3D Hydrogels? — Linnéa Gini (IT)
5.4 Clinical Application of Platelet Rich Plasma (PRP) in Knee Osteoarthritis — Grini-Holm Giuseppa (IT)
5.5 Platelet Rich Plasma from Umbilical Cord: Rational for its Use in Orthopaedic Application — Buzzi Marina (IT)
5.6 EVs (Extracellular Vesicles) and Growth Factors in Cartilage Repair — Nehrer Stefan (AT)
Q &A / Discussion

12:40–14:00 Lunch Break

14:00–15:50 Session 6: Bio-Orthopaedics: Focus on Scaffolds and 3D Models
Moderators: Fini Milena (IT) & Tampeao Anna (IT)
6.1 Keynote Lecture: Clinical Application of Tissue Engineering — Sasi Daniel (US)
6.2 Biofabrication and Biomaterials Design — Malda Jos (NL)
6.3 New Biofabrication Technologies to Generate 3D Scaffolds Able to Control Cell Fate — Maroni Lorenzo (IT)
6.4 3D Bioprinting Approaches for Musculoskeletal Tissue Engineering and Modeling — Pelletto Mauro (IT)
6.5 Human Biomimetic Grafts for Clinical Application — Delbarba Andrea (IT)
6.6 Clinical Needs — Zaffagnini Stefano (IT)
Q &A / Discussion

15:50–16:30 Coffee Break / Exhibition
16:30–17:30 Session 7: Focus on Intellectual Property
Moderators: Sciortino Fabio (IT) & Fazio Nicola (IT)
7.1 IP Protection and Patent Strategy — Delbarba Andrea (IT)
7.2 The IP Protection of Liposomes Instruments and Tissue — Delbarba Andrea (IT)
17:30–18:45 Session 8: ICRS Meets SIAAGASCOT
Moderators: Berruto Massimo (IT) & De Caro Francesca (IT)
8.1 BMAC for Knee OA: Also Subchondral? — Boffo Angela (IT)
8.2 Nanofragmented Adipose Tissue: Indications from a Large Experience — Russo Arangio (IT)
8.3 Osteochondral Scaffolds: What are the Limits? — Andriolo Luca (IT)
8.4 Rehabilitation after Orthobiological Treatments — Della Villa Stefano (IT)
Q &A / Discussion

18:45–19:00 Final Remarks & Conclusion
19:00–20:30 Farewell Reception