

## Registration & Fees

Registration is accepted online only through [www.cartilage.org](http://www.cartilage.org)

All fees in Euros	Early Bird Until Oct 30	Standard Fee Nov 01–Dec 20	Onsite Fee From Dec 21
Junior Members, Residents, Students & Fellows*	EUR 250.00*	EUR 300.00*	EUR 350.00*
ICRS Members	EUR 390.00	EUR 490.00	EUR 550.00
Non ICRS-Members	EUR 490.00	EUR 590.00	EUR 650.00
Industry Associates	EUR 550.00	EUR 650.00	EUR 750.00

\* To be accompanied by a certificate signed by the head of department.

## Included in the Registration Fee

- Access to all Sessions
- Welcome Reception / Ice Breaker
- Coffee Breaks & Refreshments
- Access to Industry Exhibition
- Main Programme, Registration Material

## Cancellation of Summit Registrations

### Refunds for cancellations are as follows:

- 80 % refund for cancellations until Oct 30, 2018
- 50 % refund for cancellations until Dec 10, 2018
- No refund thereafter

## Cancellation of the Summit by the Organizer

Congress fees will be reimbursed if the congress is cancelled for other reasons than war, warlike events, and acts of terrorism or sickness epidemics. In the latter circumstances, only a proportion of the congress fee would be refundable.

## Summit Organizing Office

Cartilage Executive Office (CEO) GmbH  
Spitalstrasse 190, House 3  
8623 Wetzikon, Switzerland  
Phone: +41 44 503 73 70  
Email: [valentina.zigrino@cartilage.org](mailto:valentina.zigrino@cartilage.org)

## Summit Venue

Hyatt Regency Mission Bay  
1441 Quivira Road, San Diego, California, USA, 92109  
[www.missionbay.regency.hyatt.com/en](http://www.missionbay.regency.hyatt.com/en)

## Summit Language

English, no simultaneous translation will be available.

## Accommodation (Venue)

Hyatt Regency Mission Bay  
1441 Quivira Road  
CA 92109, San Diego, USA,  
[www.missionbay.regency.hyatt.com/en](http://www.missionbay.regency.hyatt.com/en)

## Hotel Reservations (Venue)

### Special ICRS Rates (excl. VAT, Breakfast & Service)

Standard Room/SGL/DBL at 169.00 US++

Please book hotel rooms as early as possible but not later than December 10 through the link: <https://book.passkey.com/go/ICRS2019>

## Updated Information

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

## Important Dates

Deadline Course Registration (Early Bird Fee)	Oct 30, 2018
50% Refund for Cancellations until	Dec 10, 2018
No Refund for Cancellations after	Dec 10, 2018
Deadline for Hotel Booking with special Rates	Dec 10, 2018
Deadline Course Registration (Normal Fee)	Dec 20, 2018
Increased Late Fees as from	Dec 21, 2018

## Industry Support & Exhibition

The Industry is invited to contribute and to support this important event. Affordable table top exhibits and sponsorship opportunities are available to expose and enhance your organization's visibility. Interested Companies, please contact Valentina Zigrino ([valentina.zigrino@cartilage.org](mailto:valentina.zigrino@cartilage.org))

## Sponsors & Exhibitors

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## Preliminary Programme



San Diego **USA** | **5<sup>th</sup> ICRS Summit**  
January 17–18, 2019 | Bio-Orthopaedics  
in Sports Medicine



**ICRS**

International Cartilage Regeneration  
& Joint Preservation Society

[www.cartilage.org](http://www.cartilage.org)

# WELCOME

The “bio” is not a new concept but it represents a developing component in the practice of modern orthopaedics and sports medicine. Biologic regeneration is a hot topic with many claims of success but few areas in which this success has been accepted universally. We will explore the current state of the field with faculty from many different disciplines to provide a detailed and comprehensive view from different aspects of the medical world as well as the globe.

The use of biologics in a variety of injured skeletal tissue has slowly developed and it now appears that these new materials and treatment algorithms will be implemented. The field of bio-orthopaedics is constantly evolving and the focus of the meeting, will be two-fold, to give an overview of the emerging ortho-biologic approaches for musculoskeletal pathologies and in sports medicine. The indications and the limits of PRP, stem cells, scaffolds, bone marrow concentrate, adipose tissue and many other new treatments will be discussed by key opinion leaders coming from all around the world. We will have the opportunity to listen to different experts on the same topic from basic scientists, surgeons and general practitioners. Finally, an extensive discussion including the “giants” and the next generation of experts ready to share their experience and vision with the attendees. Our program will include hot topics and extensive discussion on the use of orthobiologics for active sports patients, from professional athletes to middle age active people as well as fundamental principles in the regeneration of tissue.

Alberto Gobbi (IT) & John Lane (US)  
*Summit Director & Local Chair*

## International Faculty

Abelow Stephan (US)	Getgood Alan (CA)	Nakamura Norimasa (JP)
Adachi Nobuo (JP)	Gobbi Alberto (IT)	Nehrer Stefan (AT)
Arbel Ron (IL)	Gomoll Andreas (US)	Papacostas Emmanuel (GR)
Brittberg Mats (SE)	Goyal Deepak (IN)	Peterson Lars (SE)
Bugbee William (US)	Grande Daniel (US)	Rodeo Scott (US)
Canata Gian Luigi (IT)	Grigolo Brunella (IT)	Sadlik Boguslaw (PL)
Caplan Arnold (US)	Huard Johnny (US)	Sampson Steven (US)
Chahla Jorge (US)	Hui James HP (SG)	Saris Daniel BF (US)
Chubinskaya Susan (US)	Hurtig Mark (CA)	Sciarretta Fabio Valerio (IT)
Cole Brian (US)	Karperien Marcel (NL)	Sherman Seth (US)
Cugat Ramon (ES)	Kon Elizaveta (IT)	Shiple Brian (US)
D’Lima Darryl (US)	Krych Aaron (US)	Slynarski Konrad (PL)
Decker Rebekah (US)	Lane John (US)	Stone Kevin (US)
Della Villa Stefano (IT)	Lattermann Christian (US)	Tuan Rocky (US)
Ergelet Christoph (CH)	Mandelbaum Bert (US)	Vangness, Jr. C. Thomas (US)
Farr Jack (US)	Marlovits Stefan (AT)	Verdank Peter (BE)
Fortier Lisa (US)	McCormack Robert (CA)	Ward Samuel (US)
Gambardella Ralph (US)	Minas Tom (US)	Whyte Graeme (US)
	Mithoefer Kai (US)	Woo Savio (US)
		Zaslav Kenneth (US)

## Social Media – Follow us on:



# PRELIMINARY PROGRAMME

## Wednesday, January 16, 2019

19.00–21.00 Ice Breaker / Welcome Reception

## Thursday, January 17, 2019

08:00–08:15 Welcome & Introduction

Alberto Gobbi (IT), John Lane (USA)

### Session 1

#### Overview of Orthobiologics

Moderators: Alberto Gobbi (IT), John Lane (USA)

08:15-08:30

Orthobiologics & Sports Medicine – Bert Mandelbaum (US)

08:30-08:45

Physiology & Homeostasis: The Healing Response – Scott Rodeo (US)

08:45-09:00

The So Called „Stem Cell Tourism“ Time for Action – Arnold Caplan (US)

09:00-09:15

Discussion / Q&A

### Session 2

#### The Target

Moderators: Tom Vangness (US), Steve Abelow (US)

09:15-09:30

The Interaction of Orthopaedic Medicine & Orthopaedic Surgery – Brian Shiple (US)

09:30-09:45

Evolving Perspectives in Orthobiologics: PRP & BMAC – Lisa Fortier (US)

09:45-10:00

What Is the Target: From the Lab to the Field – Dan Grande (US)

10:00-10:15

Discussion

### 10:15 - 10:45 Coffee Break/Exhibition

### Session 3

#### Cartilage

Moderators: Mats Brittberg (SE), Stefan Nehrer (DE)

10:45-11:00

Growth Factors: 20 Years’ Experience – Ramon Cugat (ES)

11:00-11:15

Cell Based Therapies: 20 Years’ Experience – Tom Minas (US)

11:15-11:25

One or Two Steps: Long Term Results – Alberto Gobbi (IT)

11:25-11:40

Discussion

### Session 4

#### Bone

Moderators: Christian Lattermann (US), Scott Rodeo (US)

11:40-11:50

Subchondral Bone: Healthy Soil for Healthy Cartilage – Nobuo Adachi (JP)

11:50-12:00

Chondrocyte & Bone Activity f. Allograft Osteochondral Transplantation – B. Bugbee (US)

12:00-12:10

Bone Marrow Stimulation: New Possibilities – Fabio Sciarretta (IT)

12:10-12:30

Discussion

### 12:30 - 13:30 Business Lunch

### Session 5

#### Meniscus

Moderator: Alan Getgood (US), Gian Luigi Canata (IT)

13:30-13:40

Early Meniscal Restoration as Prevention of OA – John Lane (US)

13:40-13:50

Menisci Novel Approach – Peter Verdank (BE)

13:50-14:00

Meniscus Scaffolds Long Term Results – Elizaveta Kon (IT)

14:00-14:20

Discussion

### Session 6

#### Ligament & Muscle Healing

Moderators: Brian Cole (US), Marcel Karperien (BE)

14:20-14:40

New Bio Therapies for ACL Healing – Savio Woo (US)

14:40-15:00

Orthobiologics in Muscular Healing – Johnny Huard (US)

15:00-15:10

Biological Augmentation in ACL Repair – Alberto Gobbi (IT)

15:10-15:20

Discussion

### Session 7

#### Other Sources

Moderators: Susanne Chubinskaya (US), Bert Mandelbaum (US)

15:20-15:30

Amniotic Allogenic Tissue: Cells & Matrix – Jack Farr (US)

15:30-15:40

Xenograft – Kevin Stone (US)

15:40-15:50

Cultured Human MSC – James Hui (SG)

15:50-16:00

Discussion

# PRELIMINARY PROGRAMME

### 16:00 - 16:30 Coffee Break / Exhibition

### Session 8

#### Scaffolds

Moderators: Emmanuel Papacostas (GR), Christoph Ergelet (CH)

16:30-16:40

Host Environment & Humoral Response to a Scaffold – Brun. Grigolo (IT)

16:40-16:50

Bio-Orthopedic & Biomechanical Scaffolds – Darryl D’Lima (US)

16:50-17:00

Synovial Derived Stem Cell Based Strategies – Norimasa Nakamura (JP)

17:00-17:10

Discussion

### Session 9

#### New Options

Moderators: Rebecca Decker (US), Andreas Gomoll (US)

17:10-17:20

Adipose Tissue Derived MSCs – Konrad Slynarski (PL)

17:20-17:30

Orthokine – Ron Arbel (IL)

17:30-17:40

Umbilical Cord MSCs for OA of the Knee – Boguslaw Sadlik (PL)

17:40-17:50

SPRF new Blood Derived Product – Stefan Nehrer (AT)

17:50-18:00

Discussion

### 19:30 - 22:00 Faculty/Course Dinner

## Friday, January 18, 2019

### Session 10

#### Orthobiologics NextGen

Moderators: Seth Sherman (US), Kai Mithoefer (US)

08:00-08:10

Orthobiologics & Athletes – Jorge Chahla (US)

08:10-08:20

Back to the Field – Seth Sherman (US)

08:20-08:30

New Approach to Hip Disorders – Graeme Whyte (US)

08:30-08:40

Cartilage Treatment Algorithm in the Elite Athlete – Aaron Krych (US)

08:40-08:55

Discussion

### Session 11

#### Tendons

Moderators: Mark Hurtig (CA), Robert McCormack (US)

08:55-09:10

Orthobiologics in Tendons – Daniel Saris (NL)

09:10-09:20

Rotator Cuff Muscle Degeneration & Strategies for Regeneration – Samuel Ward (US)

09:20-09:30

Orthobiologic Use in Shoulder Problems – Brian Cole (US)

09:30-09:45

Discussion

### 09:45-10:15

#### Coffee Break / Exhibition

### Session 12

#### Orthobiologics & The Non-Surgical Clinician

Moderators: Daniel Saris (NL), Deepak Goyal (IN)

10:15-10:30

Rationale of Ortho-Biologic – Rocky Tuan (US)

10:30-10:40

Regenerative Medicine: The Orthohealing Experience – St. Sampson (US)

10:40-10:50

From Surgery to the Field – Stefano Della Villa (IT)

11:50-11:10

Discussion

### Session 13

#### Regulatory and Other Issues

Moderators: Ralf Gambardella (US), Stefan Marlovits (AT)

11:10-11:20

Orthobiologics and Regulatory Limitations Copy- Ralf Gambardella (IT)

11:20-11:30

Religious sentiments & Biological Products for Cartilage Therapy- Deepak Goyal (IN)

### Session 14

#### The Giant Round Table

Moderators: Alberto Gobbi (IT), John Lane (US)

11:40–12:30

Panelists: Rocky Tuan (HK), Arnold Caplan (US), Lars Peterson (SE), Brian Shiple (US), Scott Rodeo (US) Discussers: Ken Zaslav (US), Nori Nakamura (JP), Bert Mandelbaum (US)

12:30

Closing Remarks: Alberto Gobbi (IT)