MEETING **PROGRAM**

Stockholm, Sweden

September 28-30th 2026

MONDAY, SEPTEMBER 28TH 2026

08:30 - 09:00	REGISTRATION
09:00 - 09:15	WELCOME
09:15 - 10:00	PEDRO VALDIVIELSO LECTURE ON CLINICAL RESEARCH **Rare genetic calcification disorders: lessons learned over three decades** *FRANK RUTSCH (Münster, Germany)*
10:00 - 13:00	SESSION 1 *(Chair: Hervé Kempf)*
10:00 - 10:30	**To mineralize or not to mineralize in rare conditions associated to pathogenic *FAM20A* variants** *ARIANE BERDAL (Paris, France)*
10:30 - 11:00	**A window into mineralization in the eye and its relevance to macular degeneration** *JOHN HULLEMAN (Minneapolis, USA)*
11:00 - 11:30	COFFEE BREAK & POSTER VIEW
	SESSION 1 *continued*
11:30 - 12:00	**Hypophosphatasia - mechanisms and treatment outcomes** *RAJA PADIDELA (Manchester, UK)*

12:00 - 12:20		**The TERC/HSP90/TERT Axis Regulates TERT Non-Canonical Function in Calcific Aortic Valve Disease** *CYNTHIA ST. HILAIRE (Pittsburgh, USA)*
12:20 - 12:40		**Tissue-nonspecific alkaline phosphatase dephosphorylates nicotinamide mononucleotide to regulate NAD metabolism** *DAVID MAGNE (Lyon, France)*
12:40 - 13:00		**Dynamics of mineralization reveal functional heterogeneity of matrix vesicles isolated from human osteoarthritic cartilage** *JESSEM LANDOULSI (Paris, France)*
13:00 - 14:00		LUNCH BREAK & POSTER VIEW
14:00 - 16:00		SESSION 2 *(Chair: Tamas Aranyi)*
14:00 - 14:30		**Multidimensional sleep health and coronary artery calcification: Implications for cardiovascular risk** *DING ZOU (Gothenburg, Sweden)*
14:30 - 15:00		**The complexity of mechanisms responsible for the calcification of elastic fibers?** *DANIELA QUAGLINO (Modena, Italy)*
15:00 - 15:30		**Lipid dysregulation as a driver of vascular calcification** *MAGNUS BÄCK (Stockholm, Sweden)*
15:30 - 16:00		COFFEE BREAK & POSTER VIEW
16:00 - 17:00		SESSION 3 *(Chair: Jessica Bertrand)*
16:00 - 16:30		**Zebrafish models for disease-associated abnormal ossifications: two case studies** *LEONOR CANCELA (Faro, Portugal)*
16:30 - 17:00		**From dynamite to discovery: the legacy of Alfred Nobel** KLAS KÄRRE (Stockholm, Sweden)
17:00 – 17:45		INTEC ANNUAL WORK MEETING
		IN PARALLEL (for early career researchers): INTEC EARLY CAREER WORKSHOP 1 **Design an attractive graphical abstract** *JENNIFER SALOMONSSON (Stockholm, Sweden)* *HAMPUS PETRÉN (Stockholm, Sweden)*

TUESDAY, SEPTEMBER 29TH 2026

09:15 - 10:00 KEYNOTE LECTURE ON BASIC RESEARCH
Arterial calcifications: produced by vascular smooth muscle cells, modulated by endothelial cells
ANJA VERHULST (Antwerp, Belgium)

10:00 – 13:00 SESSION 4: SELECTED ORAL PRESENTATIONS (*Chair: Ola Nilsson*)

10:00 – 10:15 **Ferroptosis promotes aortic stenosis through 5-lipoxygenase**
ZIHAN QIN (Stockholm, Sweden)

10:15 – 10:30 **Hardening of the arteries: why does arterial medial calcification preferentially develop in certain arterial locations?**
JORDAN ELBADRY (London, UK)

10:30 – 10:45 **Calcium shape characteristics in carotid atherosclerosis and its association to underlying biological signatures**
ARISA KITAGISHI (Stockholm, Sweden)

10:45 – 11:15 COFFEE BREAK & POSTER VIEW

SESSION 4 *continued*

11:15 – 11:30 **Endothelial exosomes mediate TMAO-induced vascular calcification through microRNA-dependent Wnt/β-catenin signaling**
JOUMANA AL AKHDAR (Istanbul, Türkiye)

11:30 – 11:45 **Functional divergence of SWI/SNF chromatin-remodelling subcomplexes during VSMC phenotypic switching in vascular calcification**
MENG-YING WU (London, UK)

11:45 – 12:00 **AAV-mediated liver-targeted human *ABCC6* gene therapy for PXE**
DORA OBIRI-YEBOAH (Philadelphia, USA)

12:00 – 12:15 **Defining the temporal dynamics of early cardiovascular calcification through live imaging**
MAYRA MARTINEZ-LOPEZ (Toulouse, France)

12:15 – 12:30 ***Ggcx* knock-out zebrafish as a model for PXE-like syndrome suffer midfacial hypoplasia, impaired vascular integrity and fatal hemorrhages**
JUDITH VAN WYNSBERGHE (Ghent, Belgium)

12:30 – 12:45 **ENPP1 loss disrupts mitochondrial calcium homeostasis and promotes osteoblast senescence and mineralisation**
QIYU TANG (Edinburgh, UK)

12:45 – 13:00		**Soluble epoxide hydrolase in calcified aortic stenosis: from selective modulation to gender-specific personalized therapy** *CLOTHILDE HENNION (Rouen, France)*
13:00 - 14:00		LUNCH BREAK & POSTER VIEW
14:00 - 15:30		SESSION 5 *(Chair: Flora Szeri)*
14:00 - 14:30		**A new perspective on intervertebral disc calcification - from bench to bedside** *MAKARAND RISBUD (Philadelphia, USA)*
14:30 - 15:00		**Calcifying and non-calcifying manifestations in PXE - Potential Link to Extracellular Purine Metabolism** *GILLES KAUFFENSTEIN (Strasbourg, France)*
15:00 - 15:20		**Genetic mapping of joint ectopic calcification identifies KIF26B as a therapeutic target** *MUHAMMAD FAROOQ RAI (Abu Dhabi, UAE)*
15:20 - 15:30		**The study ended. The patient didn't: reconnecting 30 years of PXE data** *IAN TERRY (PXE International, USA)*
15:30 - 16:00		COFFEE BREAK & POSTER VIEW
16:00 - 17:00		SESSION 6 *(Chair: Sarah Beck)*
16:00 - 16:30		**Brain calcifications: primary brain calcification and beyond** *GAEL NICOLAS (Rouen, France)*
16:30 - 17:00		**Clinical spectrum of primary brain calcifications** *MARTIN PAUCAR ARCE (Stockholm, Sweden)*
17:00 - 17:45		ISSEC GENERAL ASSEMBLY
		IN PARALLEL (for early career researchers): INTEC EARLY CAREER WORKSHOP 2 **Use of artificial intelligence in systematic reviews** *EMMA-LOTTA SÄÄTELA (Stockholm, Sweden)* *SABINA GILLSUND (Stockholm, Sweden)*
19:30		GALA DINER *(optional)* *M/S Mälar Victoria* *Klara Mälarstrand (Kajplats 3)*

WEDNESDAY, SEPTEMBER 30TH 2026

09:00 - 10:00		SESSION 7 *(Chair: Georges Lefthériotis)*
	09:00 - 09:30	**Calciprotein particles as a therapeutic target of ectopic calcification** *MAKOTO KURO-O (Shimotsuke, Japan)*
	09:30 - 10:00	**How is phosphate sensed? The known, the unknown, and its emerging role in vascular calcification** *LAURENT BECK (Nantes, France)*
10:00 - 10:30		COFFEE BREAK & POSTER VIEW
10:30 - 12:20		SESSION 8 *(Chair: Olivier Vanakker)*
	10:30 – 11:00	**Soft tissue mineralization viewed through the lens of skeletal growth** PHILLIP TREVOR NEWTON (Stockholm, Sweden)
	11:00 – 11:20	**Role of ANKH channel in crystal-induced arthropathies** *CHRISTOPHE DURANTON (Nice, France)*
	11:20 – 11:40	**Phosphate-driven cardiac valve calcification is triggered by endothelial apoptosis in α-klotho zebrafish mutants** *ANABELA BENSIMON-BRITO (Toulouse, France)*
	11:40 – 12:00	**Pyrophosphate homeostasis: from systemic regulation to ectopic calcification** *FLORA SZERI (Budapest, Hungary)*
	12:00 – 12:20	**Macrophage-mediated inflammation: a likely driver of ectopic calcification in pseudoxanthoma elasticum** *OLIVIER LE SAUX (Honolulu, USA)*
12:20 – 13:00		CLOSING REMARKS & AWARD CEREMONY

- Presentations marked with this symbol have been selected from the abstracts submitted to the meeting.
- All meeting activities will take place at Karolinska University Hospital, Solna, in the Sune Bergström Auditorium. The INTEC Early Career Workshop will be held in separate rooms, which will be announced during the conference.
- Registration is required for the meeting, as well as for participation in the Gala Dinner and the INTEC Workshop.
- The registration fee covers access to all sessions and workshops, as well as lunches and coffee breaks. The Gala Dinner is optional and requires an additional fee.
- The Gala Dinner will be held on Tuesday, 29 September, at 7:30 PM. Venue: *M/S Mälar Victoria, Klara Mälarstrand (Kajplats 3)*