# ERN CRANIO 8th annual meeting

16 & 17 November 2023 Dublin, Ireland





### European Reference Network

for rare or low prevalence complex diseases

### Network

Craniofacial anomalies and ear, nose and throat disorders (ERN CRANIO)

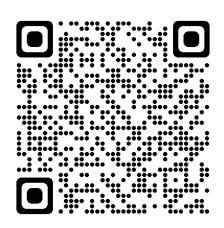


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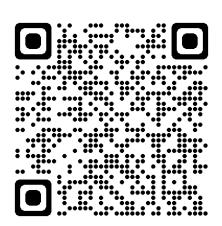
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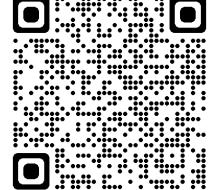




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MEETING NOTES



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# **GENERAL PROGRAMME**

### **THURSDAY 16 NOVEMBER**

14.00 - 17.00 GMT SCIENTIFIC COMMITTEE MEETING

Location: Camden Court Hotel, Dublin - YEATS ROOM Scientific committee members only - by invitation

#### 14.00 - 17.00 GMT NURSE SPECIALIST MEETING

Location: Camden Court Hotel, Dublin - BECKETT & LIBERTY ROOM Nurse specialist members only - by invitation

#### 14.00 – 17.00 GMT 3D TECHNICIAN MEETING

Location: Camden Court Hotel, Dublin - PAVILION & TIVOLI ROOM 3D technician members only - by invitation

#### 14.00 - 17.00 GMT 'FACE ME' WORKSHOP

Location: Camden Court Hotel, Dublin – ABBEY ROOM By invitation only

### 17.00 - 18.30 GMT ERN CRANIO BOARD MEETING

Location: Camden Court Hotel, Dublin - BECKETT & LIBERTY ROOM

Board members only - by invitation

#### 19.00 - 20.00 GMT TOUR THROUGH DUBLIN

Location: Gather at Camden Court Hotel, Dublin A historical tour of the Royal College of Surgeons in Ireland University of Medicine and Health Sciences

#### 20.15 - 23.00 GMT WELCOME DINNER

Location: Brasserie Sixty6, Dublin, Ireland Address: 66-67 South Great George's Street, Dublin, D02 YD61, Ireland Craniofacial anomalies and ear, nose and throat disorders (ERN CRANIO)



### **FRIDAY 17 NOVEMBER**

for rare or low prevalence complex diseases

	nden Court Hotel, Dublin - BECKETT, LIBERTY, PIVLION & TIVOLI	Craniofacial anomalies and ear, nose and throat
08.00 - 08.15 GMT	REGISTRATION	disorders (ERN CRANIO)
0 <b>8.30 - 09.00</b> GMT	WELCOME & ERN CRANIO 2023 - 2027 - hybrid se	ession
<b>)9.00 - 09.30</b> gmt	FACE ME - hybrid session	
09.30 - 11.15 бмт	EDUCATIONAL SESSION ON INNOVATION - hybrid	l session
Moderated by Dylar	n Murray, centre representative Children's Health Irel	and
Innovation ir	n surgery	Ronan Cahill
Al tool for s	peech analysis	Sarah Versnel & Victor van Roey
🗕 Automatic a	nalysis of MRI scans for children with Craniosynosto	sis Henri Vrooman & Linda Gaillard
	plication in rare craniofacial diseases: from cellular logy to advanced cell-based therapies	Wanda Lattanzi
<ul> <li>Al and the co of rare disea</li> </ul>	Agnès Bloch-Zupan	
	it and surgical validation of a 3D-printed tracheostor ith realistic biomechanics.	my Briac Thierry
Clinical and i surgery	research applications of photogrammetry in craniofa	cial Maxime Taverne
11.15 - 11.30 gmt	CLOSING PART 1 & OPENING PART 2	
<b>11.30- 11.45</b> бмт	GROUP PHOTO	
11.45 - 12.30 gmt	LUNCH	
<b>12.30 - 15.30</b> бмт	WORKGROUP SESSIONS	
<ul> <li>Craniofacial</li> <li>Cleft lip/pala</li> <li>Orodental w</li> </ul>	stosis working group microsomia working group ate working group orking group nd Throat (ENT) working group	
15.30 - 16.30 GMT	22a11 WORKGROUP	

**15.30 - 16.30** GMT 22q11 WORKGROUP



# PRACTICAL INFORMATIC

#### Network

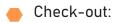
Craniofacial anomalies and ear, nose and throat disorders (ERN CRANIO)

**European** Reference Network

### HOTEL INFORMATION

Location: Camden Court Hotel Address: Camden Street Lower, Saint Kevin's, Dublin, D02 W086, Ireland

- Check-in: 16:00u GMT
- Free Wi-Fi included



Breakfast from 07:00u - 10:30u

### From airport to hotel

- Public transport: busline 16 or airport Shuttle bus. Please see local transport websites for more information or use Google Maps.
  - Travel time: 40 60 mins

12:00u GMT

- Taxi/town car: taxi's are available at the airport
  - Travel time: 30 mins

### TOUR THROUGH DUBLIN INFORMATION

Location: Lobby, Camden Court Hotel Address: Camden Street Lower, Saint Kevin's, Dublin, D02 W086, Ireland

Gather at Hotel Lobby at 19:00u.

### **RESTAURANT BRASSERIE SIXTY6 INFORMATION**

#### Location: Brasserie Sixty6, Dublin Address: 66-67 South Great George's Street, Dublin, D02 YD61, Ireland

If you will not join the tour through Dublin, please find the travel directions from the hotel to the restaurant below:

Public transport: tramline 83, 9, 16, or 122 goes from the hotel to the restaurant. Please see local transport websites for more information or use Google Maps.

Travel time: +/- 10 mins

Walking: it is a 15 minute walk from the hotel to the restaurant. Please use Google Maps for more information.



# EDUCATIONAL SESSION SPEAKER INFORMATION

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### **INNOVATION IN SURGERY**

#### Speaker: Ronan Cahill, Children's Health Ireland

This presentation will discuss innovation in surgery by Professor Ronan Cahill, Director UCD Centre for Precision Surgery & Digital Surgery Unit, Mater Misericordiae University Hospital, Dublin, Ireland.

### AI TOOL FOR SPEECH ANALYSIS

### Speakers: Sarah Versnel & Victor van Roey, Erasmus MC

This presentation will discuss a project plan to investigate the use of AI for the assessment of speech in cleft patients across Europe. This AI tool can be used as an innovative tool to assist speech & language therapists in speech assessments.

### AUTOMATIC ANALYSIS OF MRI SCANS FOR CHILDREN WITH CRANIOSYNOSTOSIS

### Speakers: Henri Vrooman & Linda Gaillard, Erasmus MC

This presentation will discuss automatic analysis of MRI scans for children with craniosynostosis with a particular focus on metopic synostosis. Tissue segmentation for determining global brain volumes and lobe-specific volumes, ventricle segmentation and tractography will be discussed.

### STEM CELL'S IMPLICATION IN RARE CRANIOFACIAL DISEASES: FROM CELLULAR PHYSIOPATHOLOGY TO ADVANCED CELL-BASED THERAPIES

### Speaker: Wanda Lattanzi, Fondazione Policlinico Universitario A. Gemelli

Stem cells are key regulators for tissue homeostasis and repair in adult tissues, where they reside in dedicated microenvironments known as "stem cell niches". Defects and or malfunctions in craniofacial stem cell niches can disrupt craniofacial development and morphogenesis and are implicated in the pathophysiology of rare diseases. Targeting stem cells in craniofacial rare diseases hence represents a suitable strategy in the design and development of experimental treatments and precision medicine approaches. I will present as paradigm example, data from craniosynostosis research performed in my lab.



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### AI AND THE CONCEPTION OF A VIRTUAL EXPERT TO FACILITATE PREDIAGNOSIS OF RARE DISEASES WITH ORODENTAL ANOMALIES

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### Speaker: Agnès Bloch-Zupan, Hopitaux universitaires de Strasbourg

The D-IA-GNO-DENT project, hosted by CHRU de Strasbourg – Hôpitaux Universitaires de Strasbourg, Reference Center for Rare Oral and Dental Diseases, CRMR O-Rares, Université de Strasbourg, IGBMC, CERBM-gie, the Fondation Maladies Rares proposes to develop AI solutions for early detection of rare oral diseases. These conditions often impact multiple organ systems and can be identified through the recognition of teeth developmental abnormalities signatures. The objective is to promote access to prediagnosis of these conditions for both patients and health professionals and to orientate them to expert centers and networks ultimately reducing the diagnostic odyssey.

### DEVELOPMENT AND SURGICAL VALIDATION OF A 3D-PRINTED TRACHEOSTOMY STIMULATOR WITH REALISTIC BIOMECHANICS

### Speaker: Briac Thierry, Hôpital Universitaire Necker Enfants-Malades

The objectives of the development and surgical validation of the 3D-printed tracheostomy stimulator with realistic biomechanids were to raise students' awareness of the dimensions of the neonatal pediatric model and the particularities of pediatric tracheostomy.

### CLINICAL AND RESEARCH APPLICATIONS OF PHOTOGRAMMETRY IN CRANIOFACIAL SURGERY

### Speaker: Maxime Taverne, Hôpital Universitaire Necker Enfants-Malades

Photogrammetry is the field of optics and geometry that enables the three-dimensional digitization of an object based on the combination of multiple photographic images. In clinics, it is a very useful technique which contributes to non-invasively obtaining 3D morphometric data on patients. In the context of promoting massive, fast and non-invasive phenotyping within the ERN Cranio, we here present a range of examples of clinical questions that photogrammetry may be able to address.



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# **WORKGROUP AGENDAS**

### **CRANIOSYNOSTOSIS**

Location: Beckett & Liberty room, Camden Court Hotel

12.30 - 12.50 gmt	UPDATE ON ERN CRANIO REGISTRY	Linda Gaillard
<b>13.00 - 13.45</b> gmt	UPDATE 3D WORKING GROUP	Maxime Taverne, Guido de Jong, Tareq Abdel Alim
13.45 - 14.05 gmt	REDO SCAPHOCEPHALY	Marie-Lise van Veelen-Vincent
	BREAK	
<b>14.20 - 14.40</b> gmt	THERAPEUTIC PATIENT EDUCATION	Giovanna Paternoster
14.40 - 15.00 gmt	PATIENT-PARTNERSHIP	Patient representatives
<b>15.00 - 15.20</b> дмт	QUALITY OF LIFE ASSESSMENT	Marizela Kljajic
<b>15.20 - 15.30</b> дмт	CLOSING OF THE MEETING	Marie-Lise van Veelen-Vincent

### **CRANIOFACIAL MICROSOMIA**



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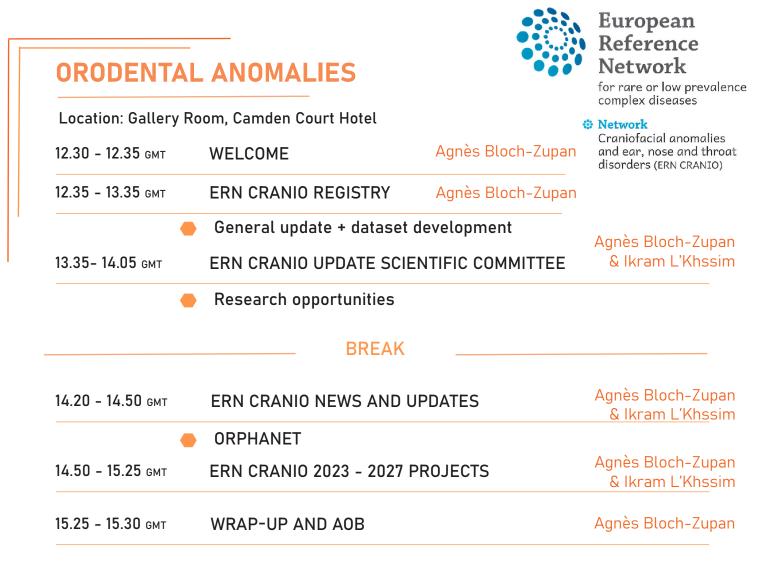
Location: Yeats Room, Camden Court Hotel				Network Craniofacial anomalies	
<b>12.30 - 12.35</b> дмт	WEL	COME	E	Eppo Wolvius	and ear, nose and throa disorders (ERN CRANIO)
<b>12.35 - 12.55</b> бмт	CFM	REGISTRY DATAS	ET		Victor van Roey
12.55 - 13.25 gмт		ATE FACIAL DYSO TEMENT	STOSIS CO	NSENSUS	Victor van Roey
13.30 - 14.00 gmt		ROVING PATIENT		CATION AND	Ivana Marinac
		BF	REAK		
14.15 - 15.00 gmt	RES	EARCH PROJECTS	IN CFM		
- 14.15 - 14.30	GMT	3D planning of s	urgery		Eppo Wolvius
- 14.30 - 14.45	б смт	How to use 3D in	naging in re	search	Eppo Wolvius
🛑 14.45 - 15.15 бмт		Treatment of chil use of microsurg		MF and the	Krzysztof Dowgierd
15.15 - 15.30 бмт	WR	AP-UP AND ANY O			Eppo Wolvius

### **CLEFT LIP/PALATE**



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Location: Pavilion &	0	Network     Craniofacial anomalies		
<b>12.30 - 12.35</b> бмт	WELCOME	Aebele Mink van der N	Iolen	and ear, nose and throat disorders (ERN CRANIO)
12.35 - 12.45 смт	ERN CRANIO NEWS &	Q UPDATES	Aebele	Mink van der Molen
12.45 - 13.10 gmt	ERN CRANIO CLEFT	LIP/PALATE REGISTRY	,	
•	DATASET CONSENSU	IS		Philip van der Goes
•	REGISTRY UPDATE &	a DASHBOARD UPDATE	Ξ	Philip van der Goes
<b>13.10 - 13.20</b> бмт	ERN CRANIO UPDATE COMMITTEE	E SCIENTIFIC	Aebele	Mink van der Molen
13.20 - 14.00 gmt	RESEARCH REGULAT PROPOSALS	TIONS &	Aebele	Mink van der Molen
	B	REAK		
<b>14.15 - 14.50</b> бмт	FUTURE INNOVATION	S	Aebele	Mink van der Molen
14.50 - 15.05 смт	ERN CRANIO 2023 -	2027 PROJECTS	Aebele	Mink van der Molen
15.05 - 15.15 смт	UPDATES PATIENT R	EPRESENTATIVES		Jana Angelova
15.20 - 15.30 gmt	WRAP-UP AND AOB		Aebele I	Mink van der Molen



ENT DISOR	DERS		European Reference Network for rare or low prevaler complex diseases
Location: Abbey ro	oom, Camden Court Hotel		<ul> <li>Network</li> <li>Craniofacial anomalies and ear, nose and throa</li> </ul>
<b>12.30 - 12.35</b> бмт	WELCOME	Bas Pullens	disorders (ERN CRANIO)
12.35 - 13.25 gmt	ERN CRANIO 2023 - 2027		Bas Pullens & Ikram L'Khssim
-	Development of educational	videos	
-	Webinar series		
-	CPMS 2.0		
-	Guideline development		
13.25 - 13.55 дмт	ERN CRANIO UPDATE SCIENT	TIFIC COMMITTEE	Bas Pullens
	Research opportunities		
	BREAK		
14.10 - 15.15 смт	ERN CRANIO REGISTRY		Philip van der Goes
	Update on ERN CRANIO regi	-	
-	Update and discussion rare	congenital deafness	s dataset
<b>15.15 - 15.30</b> бмт	WRAP-UP AND AOB		Bas Pullens

# **MEETING NOTES**



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The 8th annual meeting of ERN CRANIO was organised in collaboration with the Children's Health Ireland Hospital in Dublin, Ireland.

A special thanks goes out to the Dublin team for helping to organise this event!