

**ESTRO**  
2021

**PROGRAMME OVERVIEW**

# Optimal radiotherapy for all

**ESTRO  
ANNUAL  
CONFERENCE**

**27 - 31 August 2021**

Onsite in Madrid, Spain & Online

**#ESTRO2021**  
[www.estro.org](http://www.estro.org)

# FRIDAY 27 AUGUST 2021

	INTERDISCIPLINARY PRE-MEETING COURSE	RADIOBIOLOGY PRE-MEETING COURSE	CLINICAL PRE-MEETING COURSE	PHYSICS PRE-MEETING COURSE	RTT & PHYSICS PRE-MEETING COURSE
08:30-17:00	Intra-operative radiation therapy <i>Course directors:</i> Philip Poortmans (BE) Felipe Calvo (ES)	Radiobiology of novel irradiation modalities <i>Course directors:</i> Marie Catherine Vozenin (CH) Yolanda Prezado (FR)	Artificial intelligence for clinicians <i>Course directors:</i> M. Dahele (NL) E. Sterpin (BE)	The evolving role of medical physicists in clinical trials (from ESTRO 2020) <i>Course directors:</i> David Fuller (US) Maianne Aznar (UK)	Clinical implementation of surface guided radiotherapy (SGRT) <i>Course directors:</i> Filipe Moura (PT) Philipp Freislederer (DE)
17:15-17:45	OPENING CEREMONY  <b>Lectures</b> Multidisciplinary clinical cancer research: Can we make it better than just the sum of its parts? Multidisciplinary cancer care: Adding value in times of change  <b>Lifetime achievement awards</b>				

# SATURDAY 28 AUGUST 2021

	N101-102	N104	PLENARY	ROOM 1	ROOM 2.1	ROOM 2.2	N103	N105 + N106	Online Stream 1	Online Stream 2
08:00-08:40		<b>TEACHING LECTURE</b> The microbiome: Its role in cancer development and treatment response	<b>TEACHING LECTURE</b> Breast reconstruction and radiotherapy	<b>TEACHING LECTURE</b> Neurocognitive changes following radiotherapy for primary brain tumours	<b>TEACHING LECTURE</b> Independent dose calculation and pre-treatment patient specific QA	<b>TEACHING LECTURE</b> Diffusion MRI: How to get started	<b>TEACHING LECTURE</b> The role of RTT leadership in building a multi-disciplinary research workforce in radiation oncology	<b>TEACHING LECTURE</b> New developments in skin cancers treatment: Is brachytherapy the new frontier especially for the face?		
08:45-10:00	<b>SYMPOSIUM</b> Education in radiation oncology	<b>JOINT SYMPOSIUM ESTRO-EACR</b> How does cancer cell metabolism affect the radiation response and vice versa?	<b>SYMPOSIUM</b> New endpoints for early breast cancer - Less is more?	<b>SYMPOSIUM</b> Radiosurgery for central nervous system disorders: Beyond glioblastoma and metastases	<b>SYMPOSIUM</b> Clinical implementation of in vivo dosimetry	<b>SYMPOSIUM</b> The use of MR in radiotherapy	<b>SYMPOSIUM</b> RTT-led radiomics research	<b>SYMPOSIUM</b> Prostate cancer: Short treatments by SBRT or brachytherapy?	<b>POSTER HIGHLIGHT</b> 08:45-09:45 Treatment planning 1	<b>POSTER HIGHLIGHT</b> 08:45-09:45 Head and neck 1
10:00-10:30	COFFEE BREAK									
10:30-11:30	<b>PROFFERED PAPERS</b> Health services & health economics	<b>PROFFERED PAPERS</b> Tumour microenvironment	<b>PROFFERED PAPERS</b> Breast	<b>PROFFERED PAPERS</b> CNS	<b>PROFFERED PAPERS</b> Applied dosimetry	<b>PROFFERED PAPERS</b> Adaptive RT: MR-guided and SBRT	<b>PROFFERED PAPERS</b> Advances in RT imaging and contouring	<b>JOINT SYMPOSIUM ESTRO-ESGO</b> State of the Art: Updated ESGO-ESTRO-ESP guidelines in endometrial cancer	<b>POSTER HIGHLIGHT</b> Outcome modelling	<b>POSTER HIGHLIGHT</b> Lower GI (colon, rectum, anus)
11:40-12:40			<b>PRESIDENTIAL SYMPOSIUM</b> Optimal radiotherapy for all							
12:40-14:15	LUNCH AND INDUSTRY SYMPOSIA							<b>PHYSICS ASSEMBLY</b> 13:00-14:00		
14:15-15:30	<b>SYMPOSIUM</b> Guidelines	<b>SYMPOSIUM</b> Radiobiology underpinning the interactions between radiotherapy and the anti-tumour immune response	<b>DEBATE</b> Should all radiation treatments after breast conserving surgery consist of maximum 5 fractions?	<b>JOINT SYMPOSIUM ESTRO-CARO</b> COVID-19	<b>SYMPOSIUM</b> Proton arc therapy - An evolution or revolution?	<b>JOINT SYMPOSIUM ESTRO-AAPM</b> A roadmap for the use of quantitative imaging in radiation oncology	<b>SYMPOSIUM</b> What's next for breathing motion management in radiotherapy?	<b>SYMPOSIUM</b> Highlights of WCB 2021	<b>POSTER HIGHLIGHT</b> RTT: Advanced radiotherapy service implementation	<b>POSTER HIGHLIGHT</b> CNS 1
15:30-16:00	COFFEE BREAK									
16:00-16:20			<b>E. VAN DER SCHUEREN AWARD</b>							
16:20-16:40			<b>JENS OVERGAARD LEGACY AWARD</b>							
16:45-17:45	<b>PROFFERED PAPERS</b> Patient-reported outcome measures & quality of life	<b>PROFFERED PAPERS</b> Immuno-radiobiology	<b>PROFFERED PAPERS</b> Lung		<b>PROFFERED PAPERS</b> Detectors and dosimetry	<b>PROFFERED PAPERS</b> Adaptive RT: Proton	<b>PROFFERED PAPERS</b> Haematology / Paediatrics / Sarcoma		<b>POSTER HIGHLIGHT</b> Quantitative functional and biological imaging	<b>POSTER HIGHLIGHT</b> Breast
18:00-18:30	<b>POSTER AWARD CEREMONY</b>									

# SUNDAY 29 AUGUST 2021

	N101-102	N104	PLENARY	ROOM 1	ROOM 2.1	ROOM 2.2	N103	N105 + N106	Online Stream 1	Online Stream 2	
08:00-08:40	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>				
	Biomarker-guided precision radiotherapy	The radiobiology of the normal brain	Immunotherapy combined with radiotherapy in metastatic patients: Rationale, targets, dose and timing	How to tailor your cervical cancer treatment based on evidence-based dose-effect relationships?	IAEA TRS 398: Update for modern radiotherapy	The dos and don'ts for statistical treatment outcome modelling	The future of RTT advanced practice				
08:45-10:00	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>JOINT SYMPOSIUM ESTRO-RANZCR</b>	<b>JOINT SYMPOSIUM ESTRO-ESR</b>	<b>JOINT SYMPOSIUM ESTRO-EFOMP</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>POSTER HIGHLIGHT</b>	<b>POSTER HIGHLIGHT</b>	
	Turning cold into hot tumours: Challenges in radio-immunotherapy	Normal tissue effects of combined therapies	Challenges and benefits of SBRT	MRI guided radiotherapy in gynaecological cancer treatment	New radiotherapy technology - What does it mean for radioprotection?	Novel planning approaches for uncertainties in GTV delineation and microscopic disease around GTVs	Opportunities for RTTs in higher education: Making the right choice	Salvage brachytherapy for breast cancer	Intra-fraction motion management	Lung	
10:00-10:30	COFFEE BREAK										
10:30-11:30	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>		<b>POSTER HIGHLIGHT</b>	<b>POSTER HIGHLIGHT</b>	
	Hypoxia & tumour microenvironment	Radiobiology of normal tissues	Late-breaking abstracts	Gynaecological	Training and implementation for new technologies	Plan optimisation and algorithms	RTT Education and training		Dosimetry 1	Miscellaneous	
11:40-12:40			<b>HIGHLIGHTS OF PROFFERED PAPERS</b>								
			Latest Clinical Trials								
12:40-14:15	LUNCH AND INDUSTRY SYMPOSIA							<b>GEC-ESTRO ASSEMBLY</b>			
							13:00-14:00				
14:15-15:30	<b>JOINT SYMPOSIUM ESTRO-JASTRO</b>	<b>SYMPOSIUM</b>	<b>JOINT SYMPOSIUM ESTRO-RANZCR</b>	<b>SYMPOSIUM</b>	<b>PROFFERED PAPERS</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>POSTER HIGHLIGHT</b>	<b>POSTER HIGHLIGHT</b>	
	Current status of hyperthermia in radiation oncology	Novel model systems for radiobiology research	Multiple and multifocal SBRT in advanced disease	Update in advanced breast cancer	Motion management	Automatic contouring: Metrics and clinical evaluation approaches	Working with infectious/contagious patients - COVID-19	Next generation of brachytherapy treatment planning systems: What do we want and what do they need?	Treatment planning 2	Head and neck 2	
15:30-16:00	COFFEE BREAK										
16:00-16:20			<b>C. REGAUD AWARD LECTURE</b>								
16:20-16:40			<b>IRIDIUM AWARD LECTURE</b>								
16:45-17:45	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>POSTER HIGHLIGHT</b>		<b>POSTER HIGHLIGHT</b>	<b>POSTER HIGHLIGHT</b>	
	Functional and biological imaging	Radiation response and biomarkers	Palliation	Upper GI	Treatment planning for proton therapy	Large-scale assurance of quality	Image-guided innovations in radiotherapy (ONLINE SESSION ONLY)		Radiobiology	Gynaecological	

# MONDAY 30 AUGUST 2021

	N101-102	PLENARY	ROOM 1	ROOM 2.1	ROOM 2.2	N103	N104	Online Stream 1	Online Stream 2
	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>		
08:00-08:40	Stem cells in radiation oncology	The microbiome: An emerging concept impacting the tumour and normal tissue with implications for treatment personalisation	Which techniques and delineation for craniospinal irradiation?	Treatment plan quality assessment	Respiratory motion interventions for high precision radiotherapy	Evidence-based approach for optimising clinical processes in radiotherapy	Mental health prevention -tips to stay healthy, recognise the signs of burnout		
	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>PROFFERED PAPERS</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>POSTER HIGHLIGHT</b>	<b>POSTER HIGHLIGHT</b>
08:45-10:00	State-of -the-art in lung cancer	Salvage treatment for radiotherapy-recurrent primary prostate cancer	New developments in head and neck cancer radiotherapy	Automated planning	The role of deep learning in CBCT-based workflows	Innovations in radiotherapy practice	Mobility/grant reports	08:45-09:45 Radiotherapy treatment outcome	08:45-09:45 Upper GI
10:00-10:30	COFFEE BREAK								
	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>SYMPOSIUM</b>	<b>POSTER HIGHLIGHT</b>	<b>POSTER HIGHLIGHT</b>
10:30-11:30	New technologies	Urology	Head and Neck	Image acquisition and processing	Outcome modelling 1	IGRT and treatment verification	Make the best use of online resources and meetings for remote (net)working	Treatment and planning evaluation	Hyperthermia
11:40-12:40		<b>HIGHLIGHTS OF PROFFERED PAPERS</b>							
12:40-14:15	LUNCH AND INDUSTRY SYMPOSIA								
	<b>JOINT SYMPOSIUM ESTRO-ASTRO</b>	<b>DEBATE</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>DEBATE</b>	<b>YOUNG LUNCH SYMPOSIUM + NETWORKING</b>	<b>POSTER HIGHLIGHT</b>	<b>POSTER HIGHLIGHT</b>
14:15-15:30	FLASH radiotherapy from a multidisciplinary prospective	Rectal spacers for prostate radiotherapy - The farther the better?	New opportunities for radio-immunotherapy in head and neck cancer	Next steps in automated treatment planning	Image guidance in particle therapy: From state-of-the-art towards real-time ART	This house believes that in the next 5 years the current RTT education curriculum will be obsolete	Equity and diversity	14:15-15:15 Dosimetry 2	14:15-15:15 CNS
15:30-16:00	COFFEE BREAK								
16:00-16:20		<b>K. BREUR AWARD LECTURE</b>							
16:20-16:40		<b>HONORARY PHYSICIST AWARD</b>							
	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>SYMPOSIUM</b>	<b>POSTER HIGHLIGHT</b>	<b>POSTER HIGHLIGHT</b>
16:45-17:45	Adaptive radiotherapy	Lower GI	Immuno and targeted agents	Treatment planning: applications	Outcome modelling 2	Advances in RT planning	Project from A to Z in a hot or new topic Where do you start? And how to publish?	Imaging acquisition and processing	Prostate
18:00-19:00			<b>MEET THE BOARD</b>						

# TUESDAY 31 AUGUST 2021

	N101-102	N104	ROOM 1	N105-106	ROOM 2.1	ROOM 2.2	N103
08:30-09:10	<b>TEACHING LECTURE</b>		<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>
	The 4 Rs of radiobiology revisited in hypofractionated radiotherapy		Multi-modality treatment of soft tissue sarcoma	Distracting techniques for paediatric/AYA/adult radiotherapy	The medical device regulation and its implications for radiotherapy: Software and hardware considerations	Physics perspective of stereotactic cardiac ablation	Health literacy: The cornerstone of the patient's understanding of radiotherapy
09:15-10:30	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>DEBATE</b>	<b>SYMPOSIUM</b>	<b>DEBATE</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>
	RBE in proton therapy	Surface-guided radiotherapy	Is it primetime for stereotactic radiotherapy for localised high-risk prostate cancer?	Radiotherapy in oesophageal cancer	Hype or Hope? This house believes that the application of radiomics will significantly improve clinical outcome of radiotherapy by 2025	COVID-19: Lessons learned	The use of telehealth in radiotherapy
10:30-11:00	COFFEE BREAK						
11:00-12:15	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>
	State-of -the-art in prostate cancer	MR Linacs - Do we really know what are we doing?	The evolving role of elective nodal irradiation in 2021 in head and neck, lung, breast and prostate cancer	Recent developments in the treatment of rectal cancer	Proving the clinical benefit of 15 years of IGRT	Novel technology for treatment delivery and modulation: Flash, microbeams and spatio-temporal fractionation	The impact of immobilisation/ positioning in advanced radiotherapy
12:20-13:20					<b>CLOSING DEBATE</b>		
					X-ray guided adaptive radiotherapy will make MR-linac obsolete		

● INTERDISCIPLINARY SESSION

● RADIOBIOLOGY SESSION

● CLINICAL SESSION

● PHYSICS SESSION

● RTT SESSION

● BRACHYTHERAPY SESSION

● YESTRO SESSION



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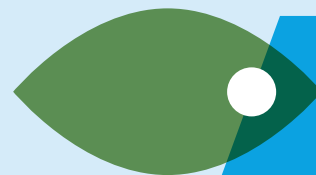
# ESTRO 2022

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SAVE THE DATE

**6-10 May 2022**  
Copenhagen, Denmark

ICHNO 20  
ECHNO 22



The Joint International  
Congress on Innovative  
Approaches in Head and  
Neck Oncology (ICHNO)  
and the European  
Congress on Head and  
Neck Oncology (ECHNO)

**3-5 March 2022**  
Brussels, Belgium

# EXHIBITION FLOORPLAN

## Exhibitors

Accuray ●	290
Anatge	940
Aquilab ●	371
Ariane Medical Systems Ltd	1040
Behyaar Co.	120
Best Medical International	372
Boston Scientific ●	480
Brainlab ●	250
Cablon Medical	860
Canon Medical Systems ●	900
Carl Zeiss Meditec Ag ●	840
Civco Radiotherapy ●	210
C-Rad ●	490
Delta4 By Scandidos ●	260
DIB Radioprotection	790
Dosisoft	376
Dr Sennewald Medizintechnik Gmbh	760
Dyn'r Medical Systems	560
Elekta ●	440
GE Healthcare	300
Gkteso Gmbh Technologies & Solutions	1000
Gold Anchor	960
Hologic	890
IBA ●	310
Intraop Medical Corporation ●	360
Klarity ●	500
Kristal Logistics	740
LAP Gmbh Laser Applikationen	261
Limbus AI	610
Lyze Medical Technologies ●	820
Med-Logix/ALBA	375
Mevion Medical Systems ●	520
Micropos Medical ●	530

MIM Software Inc ●	470
Mirada Medical	ONLINE
Mvision AI OY	660
Nanovi A/S	800
Neurologica	150
Oncotherm KFT.	680
Opasca	ONLINE
Par Scientific A/S	990
Philips ●	450
PMB-Alcen ●	330
PTW Freiburg GmbH ●	750
OFIX ●	ONLINE
RAD Technology Medical Systems ●	320
Radformation ●	370
Radon Medical Equipment Import Export Sales and Trading Inc. Co.	690
Raysearch Laboratories AB ●	230
RTSafe P.C	810
S.I.T Sordina IORT Technologies ●	220
Siemens Healthineers ●	180
Sun Nuclear Corporation ●	200
Tecnologie Avanzate TA SRL	910
TheraPanacea	830
Varian, a Siemens Healthineers Company ●	170
Viewray ●	ONLINE
Vision RT ●	280
Vision RT ●	280
Xoft, a subsidiary of iCAD, Inc.	870

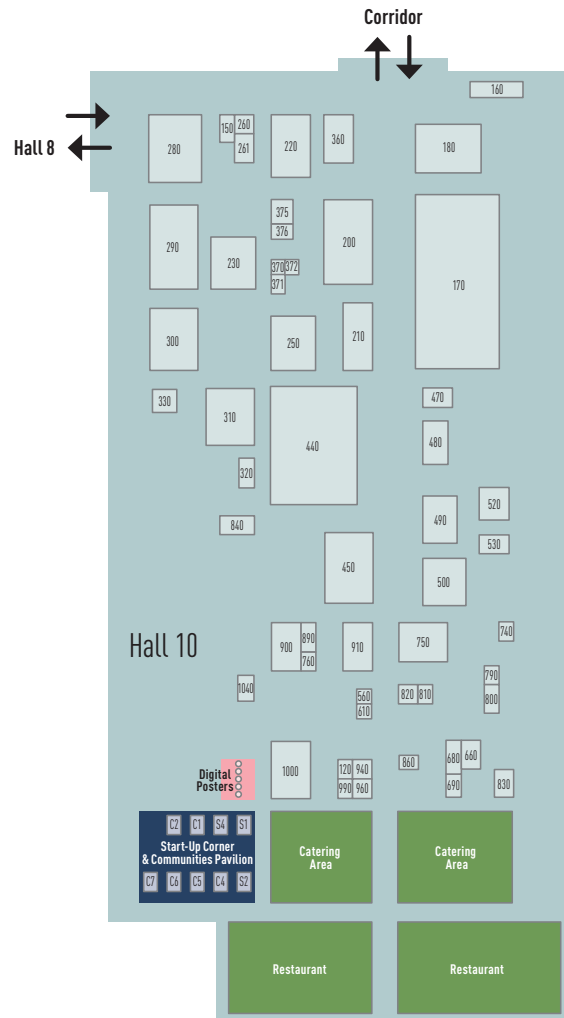
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## Start-up Corner

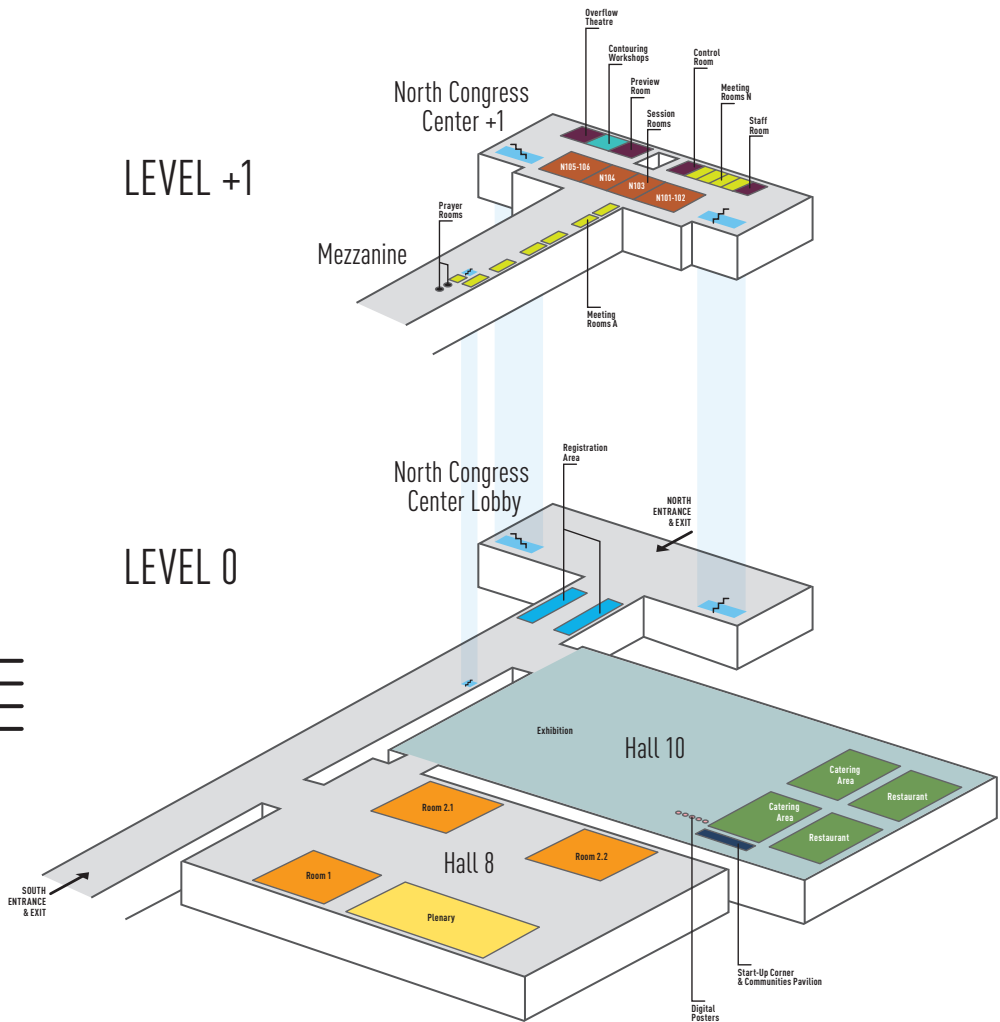
Essebi Medical SRL- Totim	S4
Medscint Inc	S2
Neomedlight ●	S1

## Communities Pavilion

University Hospital Zürich	C1
Spanish Society of Medical Physics (SEFM)	C2
Istituto del Radio "O. Alberti", Brescia (I)	C4
Sociedad Española de Oncología Radioterápica (SEOR)	C5
Polish Society of Radiation Oncology (PTRO)	C6
European Federation of Radiographer Societies (EFRS)	C7







# FIND YOUR WAY

## LEVEL 0

- Catering Area
- Start-Up Corner & Communities Pavilion
- Exhibition
- Plenary
- Digital Posters
- Registration Area
- Restaurant
- Session Rooms
  - └ Room 1
  - └ Room 2.1
  - └ Room 2.2

## LEVEL +1

- Contol Room
- Contouring Workshops
  - └ N109-110
- Meeting Rooms A
  - └ A10.03, A10.05, A10.06, A10.07, A10.08, A10.15
- Meeting Rooms N
  - └ N114 ▶ N117
- Overflow Theatre
  - └ N107-108
- Prayer Rooms
- Preview Room
  - └ N111-112
- Session Rooms
  - └ N101 ▶ N106
- Staff Room

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