



# NERVE Pathway

WENESDAY 8th May

THURSDAY 9th May

FRIDAY 9th May

SATURDAY 9th May

PIRELLONE ROOM				PIRELLONE ROOM				INSTRUCTIONAL COURSE		13:00	14:00	Lunch		
PERCONGRESS BASIC SCIENTISTS MEET SURGEONS IN PERIPHERAL NERVE REGENERATION AND REPAIR		08:30	13:00	PERCONGRESS BASIC SCIENTISTS MEET SURGEONS IN PERIPHERAL NERVE REGENERATION AND REPAIR		07:30	08:30	Instructional Course on NERVE TRANSFERS Goubier Jean Noel - Lu Johanny		14:00	14:20	Shoulder reanimation in upper in Brachial plexus palsy Felici Nicola		
KEYNOTE LECTURE 5 NATURAL AND SUSTAINABLE POLYMERS OF BACTERIAL ORIGIN FOR NERVE TISSUE ENGINEERING	Ipsita Roy (Sheffield, UK)	08:30	08:50	KEYNOTE LECTURE 6 - NERVE GRAFTS VERSUS PERIPHERAL NERVE FIBRE TRANSFER- A CHANGE OF PARADIGM? Chair: Bruno Battiston	Schmidhammer Robert			Nerve transfers for shoulder palsies	Goubier Jean Noel	14:20	16:00	Track: Nerve repair and nerve transfers II - Moderators Chim Harvey - Bruno Battiston		
BIOMATERIALS Chairs: Yuki Shirosaki & Ilaria Tonazzini				NERVE INJURY AND REPAIR - SHORT AND LONG GAPS - WHERE WE ARE I Chairs - Jean-Noel Goubier & Kirsten Haastert-Talini				Nerve transfers for musculocutaneous nerve injuries	Lu Johanny	14:20	14:28	8	Distal nerve transfers for finger and intrinsic hand function Chim Harvey	
EVALUATING SPIDER SILK FIBERS FOR PERIPHERAL NERVE REGENERATION USING A MULTICELLULAR MODEL	Sarah Stadlmayr (Vienna, Austria)	08:50	08:58	Acute reconstruction of the traumatic nerve gap: indications for nerve allograft	Bauback Safa			Distal Transfers for radial nerve palsies, nerve transfers for median nerve palsies	Jerome Terrence Jose	14:28	14:36	8	Transfer of Soleus Muscular Branch of Tibial Nerve to Deep Fibular Nerve to Repair Foot Drop after Common Peroneal Nerve injury Han Zhengzhe	
FIRST CLINICAL APPLICATION OF SPIDER SILK FOR REPAIR OF PERIPHERAL NERVE DEFECTS	Peter Vogt (Hannover, Germany)	08:58	09:06	A multicenter prospective randomized comparison of conduits versus processed acellular nerve allograft for digital nerve repairs	Isaacs jonathan			Distal nerve transfers for ulnar nerve palsies	Battiston Bruno	14:36	14:44	8	Nerve transfers for peripheral nerve injuries : my prferable options Givissis Panagiotis	
INTERACTION OF GRAPHENE AND WS2 WITH NEURAL CELLS, NEUTROPHILS AND MESENCHYMAL STEM CELLS: IMPLICATIONS FOR PERIPHERAL NERVE REGENERATION	Domenica Convertino (Pisa, Italy)	09:06	09:14	Fascicular shift- a novel concept to overcome large nerve defects	Aszmann oskar					14:44	14:52	8	Microsurgical reanimation of the elbow extension Echalier Camille	
ADVANCEMENTS IN SYNTHETIC NERVE CONDUITS FOR ENHANCED PERIPHERAL NERVE REGENERATION	Flavia Millesi (Vienna, Austria)	09:14	09:22	Nerve gap reconstruction	Kalbermatten Daniel	08:30	08:50	20	KEYNOTE - My Strategic Approach to Complete Traumatic Brachial Plexus Injuries	Bacakoğlu Ali Abdülkadir	14:52	15:00	8	Elbow Flexion Reconstruction in Brachial Plexus Avulsion Injuries – Results with Intercostal Nerve and Distal Nerve Transfers. Lim Rebecca
IMPROVING SCHWANN CELL WOUND HEALING AND AXONAL GUIDANCE WITH SOFT MICROSTRUCTURED GLYCEROL-BLENDED CHITOSAN MEMBRANES	Luca Scaccini (Pisa, Italy)	09:22	09:30	Reconstruction of digital nerve defects with muscle-in-vein conduits	Ederer Ines	08:50	10:30		Track: Peripheral nerve total plexus palsy : modern alternatives Moderators: Raimondi Piero - Casanas Joaquin		15:00	15:08	8	A Comparative Analysis of Ipsilateral C7 Transfer versus Double Fascicular Transfer for Elbow Flexion: Strength Recovery and Volitional Control Level Lee Ying-Hsuan
FOREIGN BODY RESPONSE HAMPERS TISSUE INTEGRATION OF A POLYCAPROLACTONE NANOFIBRE-CONTAINING SCAFFOLD FOR PERIPHERAL NERVE REPAIR	Pascal Achenbach (Aachen, Germany)	09:30	09:38	Targeted nerve regeneration for nac sensory restoration in gender affirming chest masculinization via the use of nerve allograft: long term sensory outcomes	Keith Jonathan	08:50	08:58	8	Virtual follow-up for the patients with total brachial plexus injuries using a WeChat mini program-based method	Zhu Qingtang	15:08	15:20	12	Discussion
FOREIGN BODY RESPONSE HAMPERS TISSUE INTEGRATION OF A POLYCAPROLACTONE NANOFIBRE-CONTAINING SCAFFOLD FOR PERIPHERAL NERVE REPAIR	Pascal Achenbach (Aachen, Germany)	09:38	09:50	Discussion		08:58	09:04	6	Use of a pedicled vascularized ulnar nerve as a long graft for complete brachial plexus palsy in adults to restore elbow flexion: Should this practice continue?	Echalier Camille	15:20	15:28	8	Long-term evaluation of nerve transfers for triceps muscle recovery in obstetrical brachial plexus palsy Sénès Filippo Maria
A PARTIALLY OXIDIZED POLYVINYL ALCOHOL CONDUIT ENHANCED BY MULTIWALLED CARBON NANOTUBES FOR PERIPHERAL NERVE REGENERATION	Elena Stocco (Padova, Italy)			NERVE INJURY AND REPAIR - SHORT AND LONG GAPS - WHERE WE ARE II Chairs: Stefania Raimondo & Lars Dahlin		09:04	09:12	8	Cross-chest pectoralis major nerve transfer and free gracilis muscle transplantation for total brachial plexus avulsions	Calcagni Maurizio	15:28	15:36	8	Transplanting sural nerve and superficial peroneal nerve supplied by peroneal artery perforator pedicle to reconstruct median and ulnar nerve defects after electric shock injury of the wrist. Zhou Jian

4.15 pm	<b>COFFEE BREAK</b>		09:50	09:58	Extremity restoration after peripheral nerve lesion: nerve grafting, neurotizations and functional muscle transfer	Radtke christine	09:12	09:18	6	Clinical examination versus electromyography in traumatic adult brachial plexus injury- analysis of diagnostic accuracy	Onciu Crina-Victoria	15:36	15:42	8	Nerve injury after humerus gunshot fractures	Aslantaş Kaplan Begüm		
	<b>Session 6 BIOLOGICAL CONDUITS Chairs: Victor Carriel &amp; Alessandro Crosio</b>		09:58	10:06	In situ prevascularizaation strategy with three-dimensional porous conduits for neural tissue engineering	Shen Junjie	09:18	09:28	10	<b>Discussion</b>		15:42	15:50	8	Latrogenic nerve lesion : how to face it	Marcoccio Ignazio		
	BIOLOGICAL TUBULIZATION WITH MUS+B19:C24CLE VEIN COMBINED GRAFT - ACTUAL INDICATIONAS AND SURGICAL TECHNIQUES	Alice Clemente (Milano, Italy)	10:06	10:14	The impact of exercise on motor recovery after long nerve grafting-experimental rat study	Camuzard Olivier	09:28	09:36	8	Proposal of reconstruction of complete brachial plexus lesion by innovative transfers	Bruno Battiston	15:50	16:00	10	<b>Discussion</b>			
	THE ROLE OF MUSCULAR FIBRES IN THE EARLY STAGE OF NERVE REGENERATION WITHIN A MUSCLE-IN-VEIN GRAFT	Federica Zen (Torino, Italy)	10:14	10:22	Long-term follow-up after digital nerve reconstruction with hybrid micro- and nanostructured silk fibroin nerve conduit silkbridge®	Calcagni Maurizio	09:36	09:44	8	the brain-science-based hand surgery : failures could be also a maladaptation of the brain network	Hirata Hitoshi	16:00	16:30		<b>Break</b>			
	VALIDATION OF A CLEANROOM COMPLIANT SONICATION-BASED DECELLULARIZATION TECHNIQUE: A NEW CONCEPT IN ACELLULAR NERVE ALLOGRAFT PRODUCTION	Federico Bolognesi (Milano & Bologna, Italy)	10:22	10:30	Repair of nerve defects an uptodate	Camporro Daniel	09:44	09:50	6	is it possible to follow the risk of the rupture after end to end nerve repair in brachial plexus surgery	Yüçeturk Aidin	16:30	16:50		<b>KEYNOTE : Double nerve transfer for restoring external rotation of the glenohumeral joint after neonatal brachial plexus injury</b>	Monteiro Diana		
	COMPARATIVE IN VIVO STUDY OF DIFFERENT NERVE-REPAIR STRATEGIES IN THE TREATMENT OF 15-MM NERVE DEFECTS IN RATS	Oscar García-García (Granada, Spain)	10:30	10:38	Pre-clinical models of brachial plexus injury	Casal Diogo	09:50	09:56	6	The reliability of a WeChat mini program-based method for the movement monitoring of patients with total brachial plexus injuries	Fan Jingyuan	16:50	17:30		<b>Track: Nerve Pediatrics Moderators: Sénès Filippo - Kotb Mohammad</b>			
	REPAIR OF A RAT MEDIAN NERVE INJURY USING A NOVEL DECELLULARIZED PORCINE NERVE GRAFT: A PRELIMINARY IN VIVO STUDY	Luisa Muratori (Torino, Italy)	10:38	10:46	Strategies in perineural scars reduction: our approach and literature review	Pugliese Pierfrancesco	09:56	10:04	8	contralateral C7 in severe brachial plexus lesions	Bahm Jorg, Goubier Jean Noel	16:50	17:00	10	Indications and contraindications to primary nerve repair in obstetrical brachial plexus palsy	Catena Nunzio		
			10:46	10:54	<b>Discussion</b>		10:04	10:12	8	free functional muscle transfers for plexus lesions	Verkis Marios	17:00	17:10	10	Nerve injuries due to diaphyseal forearm fractures in 19 children	Lodrup Andreas		
	<b>Session 7 NEUROMUSCULAR SYSTEM Chairs: Michela Rigoni &amp; Kirsten Haastert-Talini</b>				<b>Break</b>				10:12	10:30	16	<b>Discussion</b>		17:10	17:20	10	Nerve transfers in children	Sénès Filippo Maria
	INVESTIGATING THE REGENERATION COMPETENCE OF PERIPHERAL MOTOR NEURONS IN ALS	Samuele Negro (Padova, Italy)	11:20	11:50	<b>REGENERATIVE NEURAL INTERFACES FOR BIONICS AND BIOELECTRONIC MEDICINE Chair: Giovanna Gambarotta</b>	Micera Silvestro	10:30	11:00		<b>Break</b>			17:20	17:30	10	secondary procedures	Montero Diana	
	GUT MICROBIOTA IMPACTS ON NEWBORN AND ADULT NEUROMUSCULAR SYSTEM	Sonia Calabrò (Padova, Italy)			<b>PAIN MANAGEMENT IN PERIPHERAL NERVE chairs: Ducic Ivica, Maravaldi Letizia, Camuzard Olivier</b>				11:00	11:20		<b>KEYNOTE - Nerve transfers in Adult Brachial Plexus Palsy</b>	Berköz Ömer	17:30	17:50	20	discussion	
			11:50	11:58	8	The role of the biomaterials in the surgical management of pain	Ducic Ivica	11:20	13:00		<b>Track: nerve transfers 1 Moderators: Voegelin Ester - Harhaus Leila</b>							
			11:58	12:06	8	Targeted muscle reinnervation (tmr): past, present, and future	Ko Jason	11:00	11:28		Intraoperative recording and nerve transfers	Casanas Kim						
			12:06	12:14	8	Persisting neuropathic pain following tmr: technique failure, constraints or concept drawbacks?	Politikou Olga	11:20	11:34	6	Outcome of surgical repair of major nerve trunk injuries in the upper limb in relation to level of injury and presence of secondary procedures	Dahlin Lars						
			12:14	12:22	8	Neuropathic pain management	Casanas Joaquim	11:20	11:42		Distal nerve transfers in adults brachial plexus injuries and peripheral nerve injuries	Jerome Terrence Jose						
			12:22	12:30	8	Targeted muscle reinnervation- evolution and experience	Harvey Chim	11:28	11:48	6	Upper limb transfers in tetraplegia	Leclerq Caroline						

4.15 pm

3.30 pm

12:30	12:38	8	Surgical treatments for postamputation pain: protocol for an international, multicenter, randomized controlled trial	Pettersen Emily	11:34	11:56	microsurgical reanimation of external rotation of the shoulder in adult brachial plexus palsies	Goubier Jean-Noel
12:38	12:46	8	Importin alpha3 controls age-dependent axonal branching by modulating ribosomal protein expression	Dotta Sofia	11:42	12:00	4 Assessment of pre-operative modalities' predictability of phrenic nerve quality	Yen Patrick
12:46	12:54	8	Neuroma Analysis: Neuroma to Nerve Ratio and Neuroma Surgery Outcomes	Eberlin Kyle (recorded)	11:48	12:15	15 Discussion	
12:54	13:10	14	Discussion		11:56	12:23	The value of distal AIN-transfer in treatment of chronic cubital tunnel syndrome	Harhaus Leila
		5	<b>Awards and closing remarks ISPNR 2024</b>		12:00	12:31	Outcome of end to side supercharge anterior interosseus nerve transfer in severe ulnar nerve trauma	Voegelin Ester
					12:15	12:39	8 Anatomical Study for a New Technique of Nerve Transfer in Case of High Ulnar Nerve Lesion	Titolo Paolo
					12:23	12:45	6 Comprehensive Hand Restoration after Lower Brachial Plexus Injury Using Staged Nerve and Tendon Transfers	Jonathan Cheng
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					16:00	17:40	<b>KEYNOTE - Microsurgery for benign and malignant nerve tumours in the upper limb</b>	<b>Dahalin Lars</b>
					16:20	18:40	<b>Track: Nerve tumor and compressions Moderators: Dailiana Zoe - Marcoccio Ignazio</b>	
					17:20	17:46	6 Clinical Outcomes of Surgical Management of Primary Brachial Plexus Tumors	Tripathy Satyaswarup
					17:40	17:54	8 Intraneural tumors of peripheral nerves: treatment options	Dailiana Zoe
					17:40	18:02	8 HRUS ultrasound and reconstruction microsurgical repair in peripheral nerve lesions	Donadelli Alberto
					17:46	18:08	6 Nerve Regeneration Speed Ratio Improvement Using EMPF Stimulation In MVNG On Finger Nerve Tumours After Surgical Removal	Jemoschi-Hreniuc Irina-Mihaela
					17:54	18:16	8 Hourglass-like constriction: a not so rare pathology	Marcoccio Ignazio
					18:02	18:22	6 Brachial Plexus Tumors : Do's & Don'ts	Sunil Gaba
					18:08	18:40	18 Discussion	

