

# FULL PROGRAM

	Monday		Tuesday		Wednesday		Thursday		Friday
		<b>8:30 - 11:00</b>	AI [Mecocci] - Unveiling the AI Landscape: Algorithms, Models, and Techniques	<b>8:30 - 10:30</b>	AI [Mecocci] - Unveiling the AI Landscape: Algorithms, Models, and Techniques	<b>8:30 - 10:30</b>	AI - [Liò] - Generative and diffusion models in bioinformatics and medicine	<b>8:30 - 9:30</b>	BioP [Diaspro] - The artificial microscope
								<b>9:30 - 10:30</b>	Team -Work Presentations
<b>11:00 - 11:30</b>	<b>BPAI School Welcome</b>	<b>11:00 - 11:30</b>	<i>Coffee Break</i>	<b>10:30 - 11:00</b>	<i>Coffee Break</i>	<b>10:30 - 11:00</b>	<i>Coffee Break</i>	<b>10:30 - 11:00</b>	<i>Coffee Break</i>
<b>11:30 - 12:50</b>	AI [Diciotti] - Introduction to Artificial Intelligence	<b>11:30 - 12:10</b>	BioP [Tombelli] - Functional and biomimetic molecules in optical biosensing: Artificial Intelligence approaches for their selection and target-binding prediction	<b>11:00 - 11:40</b>	BioP [Farina] - Computational Imaging for biomedical optics: applications to multispectral fluorescence lifetime imaging and diffuse optical tomography	<b>11:00 - 11:40</b>	BioP [Michelinì] - From biosensors to internet of biosensors	<b>11:00 - 12:30</b>	Team -Work Presentations
		<b>12:10 - 12:50</b>	BioP [Trono] - Optical biosensing: conventional methods and contribution from Artificial Intelligence	<b>11:50 - 12:30</b>	BioP [Berneschi] - Paradigm shift in optical microcavity-based sensing by Artificial Intelligence	<b>11:50 - 12:30</b>			
<b>13:00 - 14:00</b>	<i>Lunch</i>	<b>13:00 - 14:00</b>	<i>Lunch</i>	<b>12:30 - 13:30</b>	<i>Lunch</i>	<b>12:30 - 13:30</b>	<i>Lunch</i>	<b>12:30 - 13:30</b>	Best Team - Work Award and Closing Remarks
<b>14:00 - 14:50</b>	AI [Marzi] - Mastering the art of Machine Learning: best practices and beyond	<b>14:00 - 14:40</b>	AI [Baccini] - A statistical introduction to machine learning	<b>13:30 - 14:10</b>	BioP [Cicchi] - Advanced optical microscopy and imaging techniques	<b>13:30 - 14:10</b>	BioP [Kugler] - Biomedical Image Analysis and AI		
		<b>14:50 - 15:30</b>	AI [Marzi] - Unleashing the power of effective Machine Learning validation	<b>14:20 - 15:30</b>	AI - [Azevedo] - Explainable boosted trees for biophotonic data	<b>14:20 - 15:00</b>	BioP [Meiburger] - Photoacoustic image reconstruction using deep learning		
<b>15:00 - 18:00</b>	AI [Marinai] - Clustering and unsupervised learning	<b>15:30 - 18:00</b>	<i>Datathon</i>	<b>15:30 - 18:00</b>	<i>Datathon</i>	<b>15:00 - 18:00</b>	<i>Datathon</i>		
					<i>Aperitif</i>				