9:40-10:10    Retworks trained to path integrate   Gabriel Mel		Thursday May 22nd, 2025	Friday May 23rd, 2025
Chair: Manuel Valero (IMIM) Understanding the emergence of hexagonal grid cells in networks trained to path integrate Gabriel Mel Centre de Recerca Matemàtica  A two-photon fiberscope for calcium imaging and cell-precise optogenetic stimulation in freely moving mice Nicolo Accanto Institute for Bioengineering of Catalonia (IBEC)  10:40-11:10 Poster Biltz 1 Poster Biltz 2  11:10-12:30 Coffee Break (Poster Session I) Creating coordination in the cerebellum Megan Carey Champelimaud Foundation Chair: Gemma Huguet (UPC) Neural manifolds, dimensionality and communication in spontaneous activity of the visual cortex depend on eye closure Altor Morales-Gregorio Charles University In Prague  15:30-16:30 Coffee break (Poster Session II) Coffee break (Poster Session II)  16:00-16:30  Emergent stability in random networks: Computational principles of representational similarity  17:30-18:00 Cristina Glossi Cristina Glossi Cristina Glossi  Prizes and Concluding remarks  Cristina Glossi	9:00-9:30	Registration	
9:40-10:10  Understanding the emergence of hexagonal grid cells in networks trained to path integrate  Gabriel Mel  Centre de Recerca Matemàtica  A two-photon fiberscope for calcium imaging and cell-precise optogenetic stimulation in freely moving mice  Nicolo Accanto  Institute for Bioengineering of Catalonia (IBEC)  10:40-11:10  Poster Blitz 1  11:10-12:30  Coffee Break (Poster Session I)  Plenary lecture I  Creating coordination in the cerebellum  Chair Gemma Huguet (UPC)  Alor Marales-Gregorio  Chair: Gemma Huguet (UPC)  Alor Marales-Gregorio  Charles University of the visual cortex depend on eye closure  Alor Morales-Gregorio  Lucia Arancibia  Centre de Recerca Matemàtica  A two-photon fiberscope for calcium imaging and cell-precise optogenetic stimulation in review moving mice  Cross-Frequency Coupling as a Neural Substrate for Predictive Cross-Frequency Cross-Frequency Coupling as a Neural Substrate for Predictive Cross-Frequency Cross	9:30-9:40	Welcome	
Centre de Recerca Matemàtica  A two-photon fiberscope for calcium imaging and cell-precise optogenetic stimulation in reely moving mice Nicolo Accanto Institute for Bioengineering of Catalonia (IBEC)  10:40-11:10  Poster Bitz 1  10:40-11:10  Poster Bitz 2  11:10-12:30  Coffee Break (Poster Session I)  Plenary lecture I  Creating coordination in the cerebellum  Megan Carey Champalimaud Foundation  Chair Gemma Huguet (UPC) Neural manifolds, dimensionality and communication in spontaneous activity of the visual cortex depend on eye Charles University in Prague  Spatiotemporal integration properties of MT neurons affect motion discrimination*  Lucia Arancibia Centre de Recerca Matemàtica  Coffee break (Poster Session II)  Emergent stability in random networks. Computational principles of representational similarity*  Jens-Bastian Eppler Centre de Recerca Matemàtica  Arkypalidal neurons in the extensal globus pallidus can mediate inhibitory control by aftering competition in the striatum  Prizes and Concluding remarks  Cristina Glossi  Cristina Glossi  Cristina Glossi  Control Condition in the cerebellum  Neurola discrimination*  Plenary Lecture II  How do humans compose new knowledge from existive building blocks?  Chris Summerfield Oxford University Universitat Pompeu Fabra  Lunch Break  Lunch Break  Chair: Mavi Sánchez-Vives (IDIBAPS)  Metacognition Reduces Confirmation Bas and Facilitat Changes of Mind in Perceptual Decision Making  Charges of Mind in Perceptual Decision Making  Changes of Mind in Perceptual Decision Making  Alexis Pérez-Bellido Universitat Internacional de Catalunya  Melina Timplalexi Universitat Internacional de Catalunya  Coffee break (Poster Session II)  Plenary Lecture III  The odds of a decision  Mateo Carandini University College London	9:40-10:10	Understanding the emergence of hexagonal grid cells in	MazeBuilder: A Virtual Reality Tool for Use in Spatial
A two-photon fiberscope for calcium imaging and cell-precise optogenetic stimulation in freely moving mice  Nicolo Accanto Institute for Bioengineering of Catalonia (IBEC)  10:40-11:10  Poster Blitz 1  Poster Blitz 2  11:10-12:30  Coffee Break (Poster Session I)  Plenary Lecture I Creating coordination in the cerebellum Megan Carey Champalimaud Foundation  Lunch Break  Chair: German Huguet (UPC) Neural manifolds, dimensionality and communication in spontaneous activity of the visual cortex depend on eye closure  Altor Morales-Gregorio Charles University in Prague  Spatiotemporal integration properties of MT neurons affect motion discrimination: Lucía Arancibia Centre de Recerca Matemàtica  16:30-17:30  Arkypallidal neurons in the extendi globus pallidus can mediate inhibitory control by altering competition in the striatum  Prizes and Concluding remarks  Cristina Giossi  Corfes Break (Poster Session II) Plenary Lecture II How do humans compose new knowledge from existive building blocks? Chris Summerfield Oxford University / Universitat Pompeu Fabra  Lunch Break  Alexis Pérez-Bellido Universitat de Barcoland Charges of Mind in Perceptual Decision Making  Alexis Pérez-Bellido Universitat the Eartonal principles of representational similarity  Neuronal dynamics adjunctual young in mouse V1  Melina Timplalexi Universitat Internacional de Catalunya  Plenary Lecture III The odds of a decision Matteo Carandini University College London		- Gabriel Mel	- Angela Marti-Marca
10:10 - 10:40  Nicolo Accanto Nicolo Accanto Institute for Bioengineering of Catalonia (IBEC)  Poster Blitz 1  Poster Blitz 2  11:10-12:30  Coffee Break (Poster Session I)  Plenary lecture I Creating coordination in the cerebellum Megan Carey Champalimaud Foundation  Lunch Break  Chair: German Huguet (UPC) Neural manifolds, dimensionality and communication in spontaneous activity of the visual cortex depend on eye closure Altor Morales-Gregorio Charles University in Prague  Spatiotemporal integration properties of MT neurons affect motion discrimination:  Centre de Recerca Matemàtica  Lucia Arancibia Centre de Recerca Matemàtica  Linch Break  Coffee Break (Poster Session II) + Group picture Plenary Lecture II How do humans compose new knowledge from existic building blocks? Chris Summerfield Oxford University / Universitat Pompeu Fabra  Lunch Break  Lunch Break  Lunch Break  Chair: Mavi Sánchez-Vives (IDIBAPS) Metacognition Reduces Confirmation Bias and Facilitat Changes of Mind in Perceptual Decision Making Alexis Pérez-Bellido Universitat de Barcolona  Neuronal dynamics during binocularly conflicting stimu presentation in mouse V1 Melina Timplalexi Universitat Internacional de Catalunya  16:30-17:30  Coffee break (Poster Session I)  Plenary Lecture II How do humans compose new knowledge from existic building blocks? Chris Summerfield Oxford University / Universitat Pompeu Fabra  Lunch Break  Lunch Break  Lunch Break  Lunch Break  Lunch Break  Chair: Mavi Sánchez-Vives (IDIBAPS)  Metacognition Reduces Confirmation Bias and Facilitat Changes of Mind in Perceptual Decision Making Charles Universitat de Barcolona  Neuronal dynamics during binocularly conflicting stimu presentation in mouse V1  Melina Timplalexi Universitat Internacional de Catalunya  Universitat Internacional de Catalunya  Plenary Lecture III The odds of a decision  Matteo Carandini University College London  Arkypallidat neurons in the external globus pallidus can mediate inhibitory control by altering competition in the striatum  Prizes and Con		Centre de Recerca Matemàtica	Universitat Pompeu Fabra
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10:40-11:10 Poster Blitz 1 Poster Blitz 2  11:10-12:30 Coffee Break (Poster Session I)  Plenary lecture I Creating coordination in the cerebellum Megan Carey Champalimaud Foundation Champalimaud Foundation  Lunch Break  Chair: Gemma Huguet (UPC) Neural manifolds, dimensionality and communication in spontaneous activity of the visual cortex depend on eye closure Altor Morales-Gregorio Charles University in Prague  Spatiotemporal integration properties of MT neurons affect motion discrimination' Lucía Arancibia Centre de Recerca Matemàtica  16:30-17:30  Spatiotemporal integration properties of MT neurons affect motion discrimination' Lucía Peresentation in mouse V1  Emergent stability in random networks: Computational principles of representational similarity'  Jens-Bastian Eppler Centre de Recerca Matemàtica  Arkypallidad neurons in the external globus pallidus can mediate inhibitory control by altering competition in the striatum Prizes and Concluding remarks  Cristina Glossi		Nicolo Accanto	Giulio Ruffini
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