

Grant Agreement number: 813986

Acronym: Syn2Psy

Title: Synaptic Dysfunction in Neuropsychiatric Disorders

Report on network school 2

WP4 - D4.3 - D25



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1. Document Information and Introduction

Deliverable number D4.3

Deliverable Title Report on Network School 2 (NS2)

Work Package WP4 – Training and Doctoral Programme

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Type Report
Dissemination Level Public
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Reviewed and Authorized Ana Luísa Carvalho (coordinator)

Introduction

Network School 2 (NS2), under the title "Genetic approaches for the study of neuropsychiatric disorders" was held in Paris, at the Institute of Biology Paris-Seine (IBPS), Campus Marie et Pierre Currie on April 4-7, 2022. This school was organised by Catalina Betancur (Principal Investigator at IBPS).

NS2 was a four-day intensive course focused on the application of genetics to neuropsychiatric disorders. Participants gained theoretical understanding on the concepts and approaches of complex genetics, including genetics of autism spectrum disorder, schizophrenia and intellectual disability. ESRs learned how to leverage population resources to improve rare variant interpretation in developmental disorder patients and how to model neurodevelopmental disorders in a dish. Furthermore, the ESRs had the opportunity to participate in a workshop about case studies and critical thinking in neuropsychiatric genetics.

NS2 was complemented with a full-day workshop on career development provided by career consultant Sarah Blackford under the topic "Career planning and the job market". During this workshop the ESRs had the opportunity to investigate the employment market, learn about the variety of opportunities and review job seeking strategies to be more knowledgeable about the world of scientific employment and how to secure a position.

To measure the overall course satisfaction, the students were asked to answer a satisfaction survey.





2. Programme













Synaptic Dysfunction in Neuropsychiatric Disorders (Syn2Psy)

Network School II

Genetic approaches for the study of neuropsychiatric disorders

April 4-7, 2022 Campus Pierre and Marie Curie, Sorbonne University Paris

Program

Day 1 - Monday, April 4

Room B113 (building B, 1st floor)

9:00 - 10:30	Complex genetics – basic concepts and approaches
	Catalina Betancur, Neuroscience Paris Seine, Paris
10:30 - 11:00	Coffee break
11:00 - 12:30	Genetics of autism spectrum disorder
	Catalina Betancur, Neuroscience Paris Seine, Paris
12:30 - 14:00	Lunch
14:00 - 15:30	Leveraging population resources to improve rare variant interpretation in
	developmental disorder patients Kaitlin Samocha, Massachusetts General Hospital, Broad Institute of MIT & Harvard,
	Boston
15:30 - 16:00	Coffee break
16:00 - 17:30	Copy number variants in neuropsychiatric disorders
	Michael Talkowski, Massachusetts General Hospital, Broad Institute of MIT & Harvard, Boston
19:00	Cruise on the Seine with Bâteaux Mouches
	Pont de l'Alma. The cruise lasts approximately 1 hour 10 min. Bring something warm to wear, as it can feel cold and windy during the cruise.





Programme (continued)

Day 2 – Tuesday, April 5 Room B113 (building B, 1st floor)

9:00 - 10:30	Genetics of schizophrenia – rare variants
	Mark Daly, Institute for Molecular Medicine Finland, University of Helsinki
10:30 - 11:00	Coffee break
11:00 - 12:30	Neurons are talking are you listening? Modeling neurodevelopmental disorders in a dish
	Nael Nadif Kasri, Radboud University Medical Centre, Nijmegen, the Netherlands
12:30 - 14:00	Lunch
14:00 - 15:30	Genetics of schizophrenia – common variants
	Laura Huckins, Icahn School of Medicine at Mount Sinai, New York
15:30 - 16:00	Coffee break
16:00 - 17:30	Genetics of intellectual disability
	Tjitske Kleefstra, Donders Institute for Brain, Cognition and Behaviour, Radboud
	University Medical Centre, Nijmegen, the Netherlands
	Day 3 – Wednesday, April 6
	Room B120 (building B, 1st floor)
9:00 - 10:30	Workshop – Case studies and critical thinking in neuropsychiatric genetics
	Catalina Betancur, Neuroscience Paris Seine, Paris
	→ Please bring your laptop for this workshop.
10:30 - 11:00	Coffee break
11:00 - 12:30	Workshop – Case studies and critical thinking (continued)
	Catalina Betancur
12:30 - 13:45	Lunch
13:45 - 15:15	Getting from gene to therapy in neuropsychiatric disorders
	Joseph Buxbaum, Icahn School of Medicine at Mount Sinai, New York
15:15 - 15:35	Coffee break
16:00 - 18:00	Visit Grande Galerie de l'Évolution (Gallery of Evolution), Natural History Museum



20:00

Dinner



Programme (continued)

Day 4 – Thursday, April 7 Room B501 (building B, 5th floor)

Workshop

Career planning and the job market Sarah Blackford, Academic career consultant

9:00 - 12:30 Workshop

12:30 - 13:30 Lunch

14:00 - 17:30 Workshop

Program overview

	Monday	Tuesday	Wednesday	Thursday
	April 4	April 5	April 6	April 7
	Room B113	Room B113	Room B120	Room B501
9	Complex genetics –	Genetics of	Workshop – Case studies	Workshop – Career
-	basic concepts and	schizophrenia – rare	and critical thinking in	planning and the job
	approaches	variants	neuropsychiatric	market
	Catalina Betancur	Mark Daly	genetics	Sarah Blackford
	Cutama Detanear	mark bary	Catalina Betancur	Sarah Diackiora
10:30	Coffee break	Coffee break	Coffee break	
11	Genetics of autism	Neurons are talking are	continued	Coffee break (11:00-
	spectrum disorder	you listening? Modelling		11:30)
	Catalina Betancur	neurodevelopmental		continued
		disorders in a dish		
		Nael Nadif Kasri		
12:30	Lunch	Lunch	Lunch (12:30-13:45)	Lunch (12:30-13:30)
				continued
			13:45-15:15	
14	Leveraging population	Genetics of	Getting from gene to	
	resources to improve	schizophrenia – common	therapy in	
	rare variant	variants	neuropsychiatric	
	interpretation in	Laura Huckins	disorders	Coffee break (14:30-
	developmental disorder		Joseph Buxbaum	15:00)
	patients			continued
	Kaitlin Samocha		Coffee break (15:15-	
15:30	Coffee break	Coffee break	15:35)	
16-	Copy number variants	Genetics of intellectual	Visit Natural History	
17:30	in neuropsychiatric	disability	Museum	
	disorders	Tjitske Kleefstra		
	Michael Talkowski			
19	Bâteaux Mouches			
19:30			Diner	





Programme (continued)









Syn2Psy Career Workshop, Paris 2022 Thursday 7th April (09.00 – 12.30; 13.30 – 17.30)

Career planning, decision making and job seeking strategies

TIME	ACTIVITY
09.00	Welcome and introduction
09.10	Career planning theory
09.30	Analysing a PhD researcher
10.00	Focus on SKILLS and INTERESTS + Task audit
10.30	Allocation of tasks to typology categories
10.50	Connecting typology to career sectors/jobs
11.00	Break
11.30	Analysis of jobs
12.00	Researching jobs and companies
12.20	Action planning
12.30	END

Syn2Psy Career Workshop, Paris 2022 Thursday 7th April (09.30 – 12.30; 13.30 – 17.30) Career planning, decision making and job seeking strategies

TIME	ACTIVITY
13.30	Aim of workshop programme
13.40	Job seeking strategies continued
14.00	The 'Why', 'How' and 'Whom' of career success
14.30	Break
15.00	Networking – getting it right
15.30	Effective self -presentation
16.30	Personal effectiveness and decision making
16.00	Review and action plan
17.30	END





3. Attendees, trainers and speakers

Attendees

Orsolya Antal (ESR1)

Alessandro Chioino (ESR2)

Giuseppe Cammarata (ESR3)

Veronica Villeri (ESR4)

Marcos Sintes (ESR5)

Daniel Hunter (ESR6)

Elisa Corti (ESR7)

Elizabeth Brockman (ESR8)

Laura Upton (ESR9)

Flavio Tomasi (ESR10)

Ágata Silván (ESR11)

Manuela Rizzi (ESR12)

Loredana Cumpana (ESR13)

Vanesa Salazar (ESR14)

Trainers and Speakers

Catalina Betancur, Neuroscience Paris-Seine, Paris, FR (Organiser)

Kaitlin Samocha, Massachusetts General Hospital, Broad Institute of MIT & Harvard, Boston, USA

Michael Talkowski, Massachusetts General Hospital, Broad Institute of MIT & Harvard, Boston, USA

Mark Daly, Institute for Molecular Medicine Finland, University of Helsinki, FI

Nael Nadif Kasri, Radboud University Medical Centre, Nijmegen, NL

Laura Huckins, Icahn School of Medicine at Mount Sinai, New York, USA

<u>Tjitske Kleefstra</u>, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical

Centre, Nijmegen, NL

Joseph Buxbaum, Icahn School of Medicine at Mount Sinai, New York, USA

Sarah Blackford, BioScienceCareers, DE













Figure 1 – ESRs during Network School 2 in Paris: (Top left) All 14 ESRs with Network School 2 organiser Catalina Betancur. (Top right) ESRs at the Museum of Natural History in Paris. (Bottom) ESRs during the visit to Paris by boat.







Figure 2 – ESRs during Network School 2 in Paris: (Left and centre) ESRs during Career Development workshop exercise. (Right) Poster of SWAT exercise during Career Development workshop with Sarah Blackford.



4. Certificate of Attendance



ESR NAME

Participated with success in the Syn2Psy Network School II,

GENETIC APPROACHES FOR THE STUDY OF **NEUROPSYCHIATRIC DISORDERS**

TRAINING CONTENT (23 hours):

CERTIFICATE OF ATTENDANCE

- · Complex genetics: basic concepts and approaches
- Genetics of autism spectrum disorder, schizophrenia and intellectual disability
- · Leveraging population resources to improve rare variant interpretation in developmental disorder patients
- · Copy number variants in neuropsychiatric disorders
- · Modelling neurodevelopmental disorders in a dish
- From genes to therapy in neuropsychiatric disorders
- Workshop Case studies and critical thinking in neuropsychiatric genetics
- Workshop Career planning and the job market

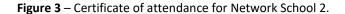


Catalina Betancur









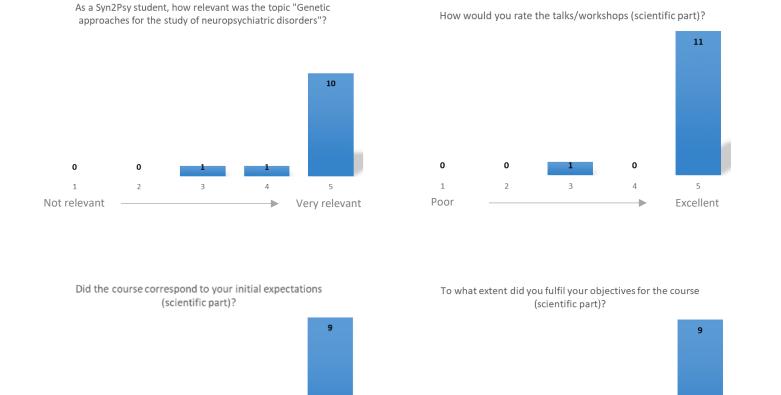




5. Course Satisfaction

The ESRs were asked to fill out a survey with questions regarding the scientific talks and workshops, the career development session and the overall satisfaction. Most of the students reported to be highly satisfied with this network school, rating the scientific talks as excellent, stating that the course corresponded completely to their initial expectations and that they had fulfilled completely their objectives for the course (Figure 4). Comments included that the talks by world-leading researchers "were fantastic" and that Catalina Betancur had planned an enjoyable and highly-engaging programme which allowed for the ESRs to gain valuable knowledge from each talk and, at the same time, providing enough time for social activities, during which the ESRs could digest the information provided and discuss about the projects with one another.

Comments regarding the career development day included it being greatly useful, particularly at this stage when many of ESRs are considering the end-phase of the projects and where to progress next.



Did not fulfil

Figure 4 – Course Satisfaction questionnaire and results.

3



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Did not correspond

Fulfilled completely

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Corresponded completely



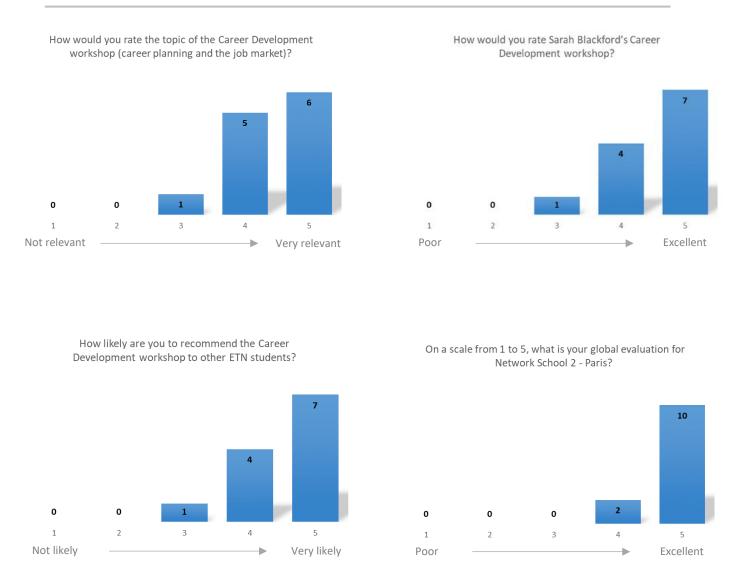


Figure 5 – Course Satisfaction questionnaire and results (continued).