



**ISN**

International Society  
for Neurochemistry

## **ISN-JNC Flagship School**

**Construction and reconstruction of brain circuits : Normal and pathological axon guidance**

Alpbach, Austria

September 10th – 15th 2018

# **Programme Schedule**

Time		Mon 10		Tue 11		Wed 12		Thu 13		Fri 14		Sat 15	Sun 16	
8:30	9:30		Genes in Axon Development and Pathology	Lecture 1	Signaling Pathways & Cell Biology	Lecture 4	Diseases and Stem Cells	Lecture 7	Sensory System Circuitry and Degeneration	Poster session 2	Sensory System Circuitry and Degeneration	Lecture 12	Breakfast	
9:00	9:30			<b>Alain Chedotal</b>		<b>Hiroyuki Kamaguchi</b>		<b>Pierre Vanderhaghen</b>		<b>Lisa Goodrich</b>				
9:30	10:00			Discussion		Discussion		Discussion		Discussion		Discussion	Discussion	Departures
10:00	10:30			Coffee break		Coffee break		Coffee break		Coffee break				
10:30	11:00			Lecture 2		Lecture 5		Lecture 8		Lecture 13				
11:00	11:30			<b>Carol Mason</b>		<b>Rüdiger Klein</b>		<b>Jeroen Pasterkamp</b>		<b>Mathias Bähr</b>				
11:30	12:00			Discussion		Discussion		Discussion		Discussion				
12:00	12:30			Lunch		Lunch		Lunch		Lunch				
12:30	13:00													
13:00	13:30			Lecture 3		Lecture 6		Lecture 9		Lecture 14				
13:30	14:00			<b>Michael Granato</b>		<b>Fanny Mann</b>		<b>Dietmar Schmucker</b>		<b>Zhigang He</b>				
14:00	14:30			Discussion		Discussion		Discussion		Discussion				
14:30	15:00			Coffee break		Coffee break		Coffee break		Coffee break				
15:00	15:30	Registration		Introduction of students		Poster session 1		Spinal cord/Peripheral nervous system (PNS) Regeneration and CNS projections		Lecture 10		Free afternoon	Lecture 10	Preparation of Reports (Results from Tutorials)
15:30	16:00		<b>Valérie Castellani</b>		<b>Valérie Castellani</b>									
16:00	16:30		Discussion		Discussion									
16:30	17:00		Lecture 11		Lecture 11									
17:00	17:30					<b>Yimin Zou</b>			Reports (Results from Tutorials)					
17:30	18:00	Welcome reception/Opening talks		Tutorials		Tutorials		Discussion						
18:00	18:30					Tutorials								
18:30	19:00													
19:00	19:30													
19:30		Dinner		Dinner		Dinner		Dinner		Dinner		Farewell ceremony		

## Titles and Speakers

### Introductions/keynote:

- |   |  |                |        |
|---|--|----------------|--------|
| 1 | Development, evolution and function of commissural projections | Alain Chedotal | France |
|---|--|----------------|--------|

### Genes in Axon Development and Pathology

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|---|--|-----------------|-----|
| 2 | Genes specifying cell fate and axon growth from eye to brain | Carol Mason     | USA |
| 3 | Genetic analysis of peripheral nerve regeneration            | Michael Granato | USA |

### Signaling Pathways, Cell biology

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|---|---|--------------------|---------|
| 4 | Molecular signaling and steering machinery for neuronal growth cone guidance          | Hiroyuki Kamiguchi | Japan   |
| 5 | Contact repulsion and adhesion as guidance mechanisms during normal brain development | Rüdiger Klein      | Germany |
| 6 | Generating diversity in axonal responses to guidance cues                             | Fanny Mann         | France  |

### Diseases and Stem Cells

- |   |   |                      |             |
|---|---|----------------------|-------------|
| 7 | From pluripotent stem cells to cortical circuits                          | Pierre Vanderhaeghen | Belgium     |
| 8 | Roles of (non-) coding RNAs during neural circuit development and disease | Jeroen Pasterkamp    | Netherlands |

### Spinal cord/Peripheral nervous system (PNS) Regeneration and CNS projections

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|----|--|--------------------|---------|
| 9  | Mechanisms of axon branching and CNS synaptogenesis                                | Dietmar Schmucker  | Belgium |
| 10 | Molecular mechanisms of midline crossing during spinal commissural axon navigation | Valérie Castellani | France  |
| 11 | Axon guidance cues in spinal cord injury   | Yimin Zou          | USA     |

### Sensory System Circuitry and Degeneration

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|----|--|---------------|---------|
| 12 | Wiring and re-wiring auditory circuits                     | Lisa Goodrich | USA     |
| 13 | De- and regeneration of the retino-tectal system           | Mathias Bähr  | Germany |
| 14 | From axon regeneration to functional recovery in adult CNS | Zhigang He    | USA     |