	September 12th	September 13th	September 14th	September 15th	September 16th
Morning	General presentation / What's hot in Neurophysiology (Casado)	W2	W2	Guidelines for project (Gendrel) / Ion channels (Casado)	Thalamus and cerebellum as playfields (Casado)
Afternoon	Recalling some notions on electricity (Gendrel) / Electrical properties of excitable membranes (Casado)	W2	W2	Methods in electrophysiology (Casado)	Methods in electrophysiology (Casado)
	September 19th	September 20th	September 21st	September 22nd	September 23rd
Morning	W1	W1	Patch-clamp techniques (Lambert)	W1 and protocol writing	Optogenetics (Dugué)
Afternoon	W1	W1	W5a (in vitro analysis)	W1 and protocol writing	W3
	September 26th	September 27st	September 28nd	September 29rd	September 30th
Morning	W4-T1 / W3	W4-T2 / W3	W4-T3 / W3	W5a (in vitro analysis) @SU, salle micro 117.	W5b (in vivo analysis) @SU salle micro 108.
Afternoon	W4-T1 / W3	W4-T2 / W3	W4-T3 / W3	W3	W5b (in vivo analysis) @SU salle micro 108.
	October 3rd	October 4th	October 5th	October 6th	October 7th
Morning	W5b (in vivo analysis) @SU salle micro 101.	Numerical methods (Ranft)	Linking neuronal activity to behaviour (Faure)		
Afternoon	W5b (in vivo analysis) @SU salle micro 101.	Numerical methods (Ranft)			Examination

•W1. Workshop "Setting up an electrophysiology rig in 3 days" from 9h30.

•W2. Workshop "Analog and digital electronics for electrophysiologists" (2days, B. Barbour) from 9h30

•W3. Workshop "Patch-clamp experiments in slices" (5days) (V-clamp/C-clamp, spontaneous/evoked, I-V, excitation/inhibition, Casado, Gendrel, Lambert). Focus on cerebellum or thalamus. Morning from 9h30 (2-3 students shadowing slice preparation, Casado). Afternoon experiment from 13h30.

•W4. Workshop "In vivo Neurophysiology" (1day x 3 groups) (Bessaih) **from 13h30**

•W5. Workshop "Analyzing electrophysiological data" (3day) from 9h30. W5a. 1 day in vitro data analysis. Synaptic data in V-clamp and C-clamp; V-dep conductances (Lambert). W5b. 2 day in vivo data analysis. Data preprocessing: data filtering, cluster cutting, stimulation time extraction, creation of matrices exploitable by R, Matlab, Python or Igor (Bessaih). Data analysis: PSTH, auto, cross-correlograms, correlating activity and EEG (Léna)

W1, W2, W3: Ens, room 305. W4, W5: SU@Jussieu.
W4: 3 teams of 1-2 students (T1, T2, T3)