Section 1: Scientific questions

Q1. Which brain area has the lowest firing rate over the entire recording?
Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q2. Which brain area has the highest broadband LFP power (1–100 Hz) over the entire recording?
Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q3. Which brain area (if any) has the highest density of ripples (i.e. "hippocampal" ripples traditionally occurring during sharp wave-ripples)?

Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q4. In which brain area are pairwise spike train interactions strongest at the 100 ms timescale?
Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q5. Which brain area pair has the strongest undirected functional connectivity?

Brain area 1 ⇔ Brain area 2 ☐ Brain area 1 ⇔ Brain area 3 ☐
Brain area 2 ⇔ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	**Mean**	**95% C.I.**	**Units**
Area 1 ⇔ 2			
Area 1 ⇔ 3			
Area 2 ⇔ 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q6. Which brain area pair has the strongest directed functional connectivity?

Brain area 1 ⇒ Brain area 2 ☐ Brain area 3 ⇒ Brain area 2 ☐
Brain area 3 ⇒ Brain area 1 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	**Mean**	**95% C.I.**	**Units**
Area 1 ⇒ 2			
Area 3 ⇒ 2			
Area 3 ⇒ 1			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q7. Which brain area has the highest density of putative fast-spiking interneurons based on spike waveform and/or spike train features?

Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q8. In which brain area are spikes most strongly phase-locked to its own LFP in the 4–10 Hz range?

Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q9. Which brain area has the highest excitation-inhibition ratio (i.e., the strongest relative excitation)?

Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q10. Which brain area has the shortest intrinsic neuronal timescale during baseline activity?
Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q11. Which brain area contains most information about variable A? Exclude inter-trial intervals. The specific trial segment on which to base the analysis is not given because it cannot be determined *a priori* for variable A.

Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q12. During which trial segment is variable C best decoded?

Trial start ⇒ Stim start ☐ Stim start ⇒ Outcome ☐ Outcome ⇒ Trial end ☐
Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Trial start ⇒ Stim start			
Stim start ⇒ Outcome			
Outcome ⇒ Trial end			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q13. In which brain area is the dimensionality of neural activity highest? Use the segments from stimulus presentation to outcome to answer this question.

Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q14. In which brain area is modularity the lowest? Use the entirety of the recording to answer this question.

Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Q15. In which brain area is the neural signal most complex? Use the segments from stimulus presentation to trial end to answer this question.

Brain area 1 ☐ Brain area 2 ☐ Brain area 3 ☐ Not enough data / no differences ☐

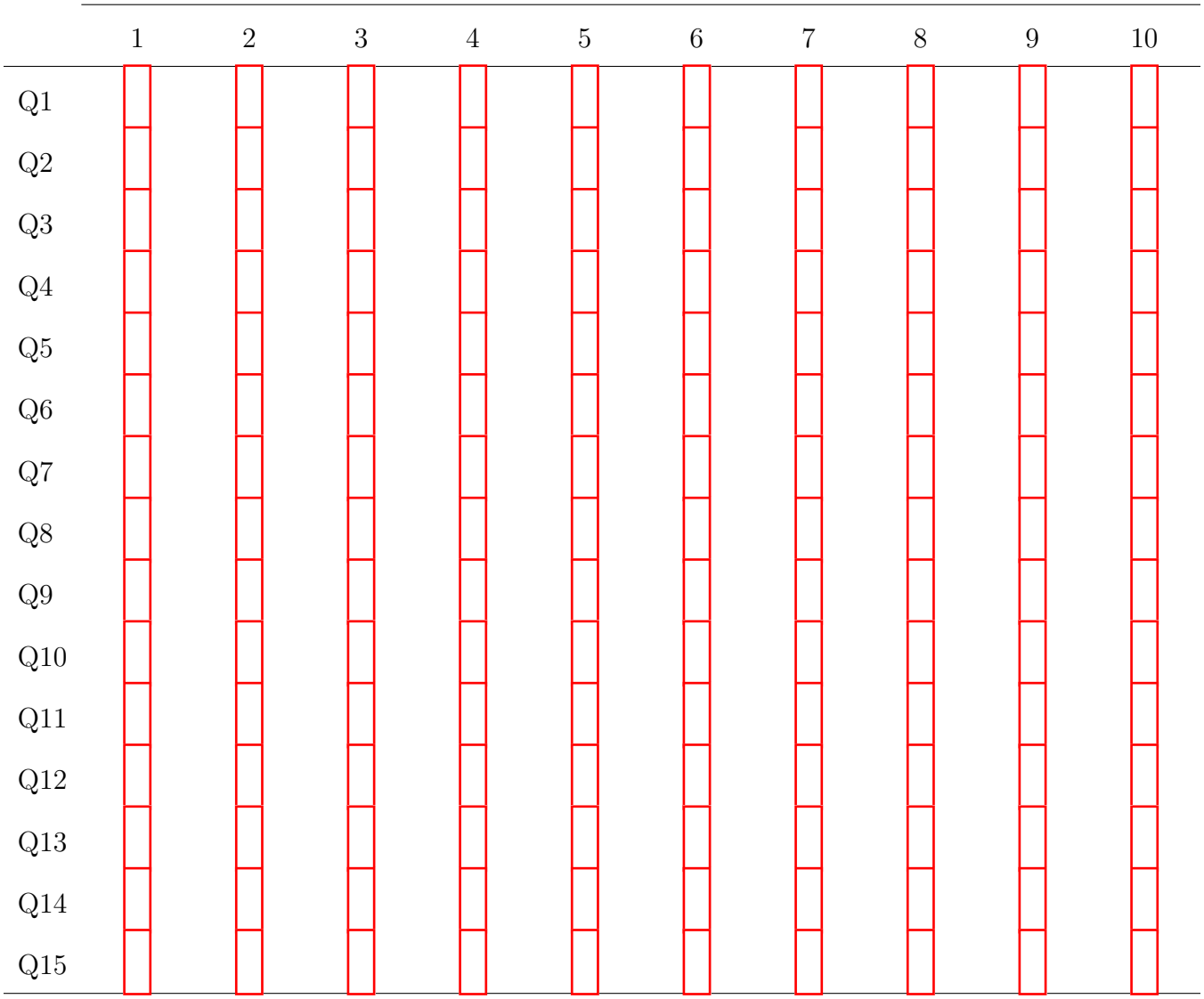
Please provide the quantitative estimates that you used to answer the question.

Brain Area	Mean	95% C.I.	Units
Area 1			
Area 2			
Area 3			

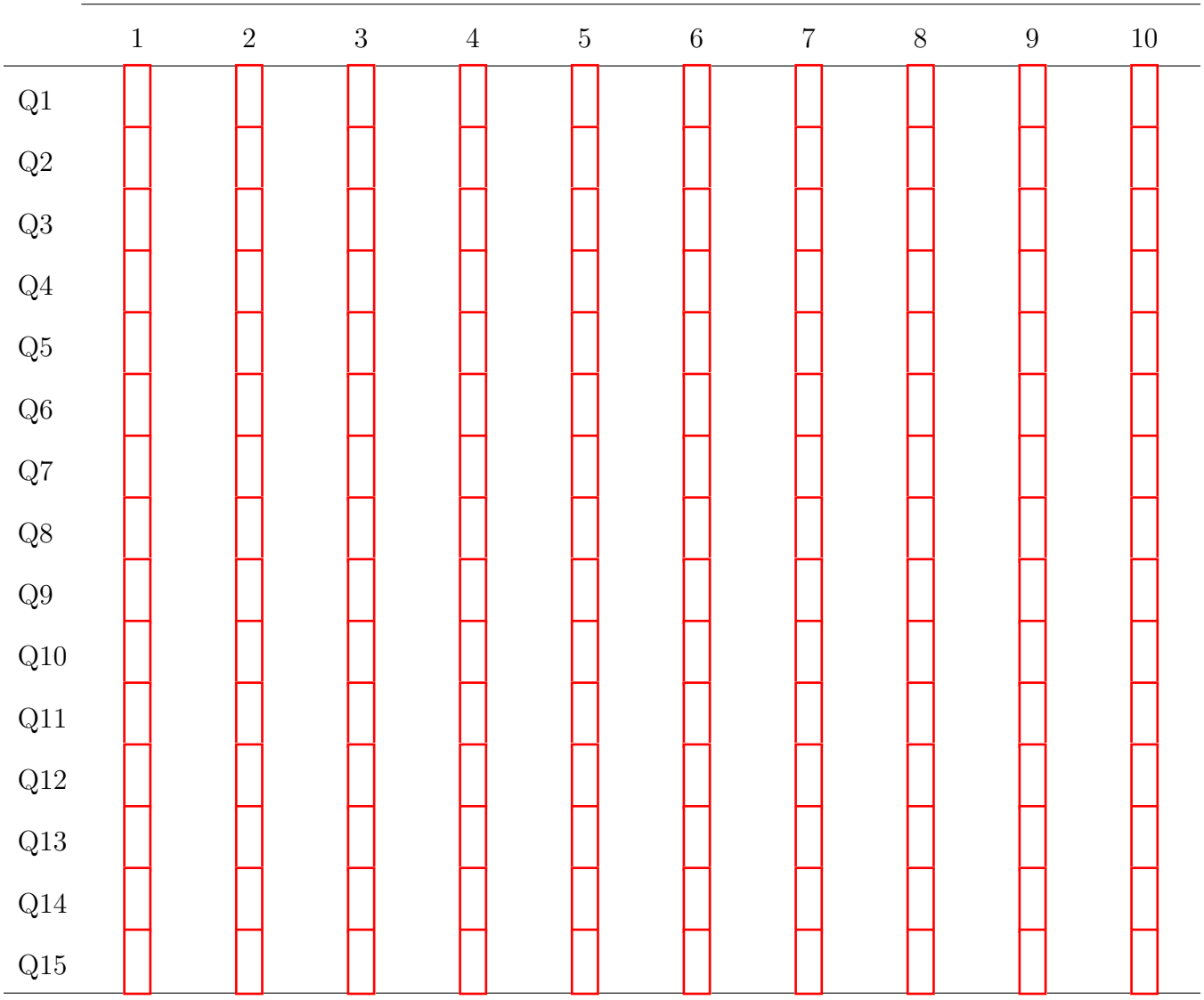
Please briefly explain how you answered this question (e.g., eventual inclusion/exclusion criteria, step-by-step analytical and statistical approach, eventual quantitative results, etc.).

Section 2: Meta-information on the answers you provided

Rate your confidence in your answers from 1 (low) to 10 (high):



Rate your prior experience with the methods you used from 1 (low) to 10 (high):



Rate your expected consensus among participants from 1 (low) to 10 (high):