

5th Barcelona Lecture Series in

Brain, Cognition & Behaviour



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Prediction in interceptive movements

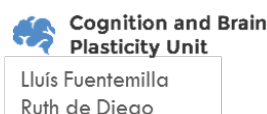
Intercepting a moving target requires spatial and temporal precision: the target and the hand need to be at the same position at the same time. Since both the target and the hand move, we cannot just aim for the target's current position, but need to predict where the target will be by the time we reach it. The predictions we make about how targets move are not always correct, and such errors lead to equivalent errors in interception. Some of the errors we make in our predictions (and, as a consequence, in interception) can be avoided by looking at the targets we try to intercept. Pursuit eye movements contribute to more reliable predictions that are continuously updated and combined with online visual information to optimize our actions. When predicting how a target will continue moving is not possible, we change both the eye movements we make to try to obtain information about how the target moves, as well as our movements to successfully intercept it.

Date: Thursday, 12 April 2018

Hour: 15:00

Place: Sala de Graus, Facultat de Psicologia, Campus Mundet

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