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In the experimental sciences, there is always a treatment or intervention applied to an entity, which in our case will be a

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biological entity such as a person, animal, or cell. A basic requirement for replication is to have multiple independent entity – intervention pairs. Suppose that the intervention is a drug given orally to a patient.

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### Experimental Design for Laboratory Biologists - Cambridge Core

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Specifically intended for lab-based biomedical researchers, this practical guide shows how to design experiments that are reproducible, with low bias, high precision, and widely applicable results. With specific examples from research using both cell cultures and model organisms, it explores key ideas in experimental design, assesses common designs, and shows how to plan a successful experiment.

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