



# Farewell to the Internal Clock: A contribution in the field of chronobiology

*Gunter Klein*

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Nearly everything making up what we call the “environment” of a plant has an influence on the way it grows. Sunlight, temperature, moisture contents of soil and atmosphere and vibrations are all obvious examples of environmental components, and transient variations in their amount or intensity lead the plant to manifest more or less immediate responses. Small changes in carbon dioxide level in the atmosphere can even have effects, but these take a longer time to be registered – at least those that are visible, albeit at the microscopic level. Plants meet the challenges of the environment by means of acclimation. In this respect, plants are notable for the plasticity of their development. However, where morphological or physiological plasticity is no longer an option, the responses would be by means of adaptations as a result of genetic selection or genetic “assimilation” (Waddington 1957). Thus, a feature that was once a facultative transient response to an environmental perturbation becomes a constitutive characteristic of plant structure or function. It is in this way that the environment continually molds the way in which plants develop, and also defines the areas upon planet Earth where they will thrive.

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