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at particular stages of plant development and in particular tissues of interest. The more precise temporal and spatial control, obtained by providing the transgenic plant with the appropriate chemical compound or treatment, permits to analyze

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also the function of those genes required for plant viability.

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A drug-inducible expression tool for *C. elegans*. To engineer a heterologous, drug-inducible gene

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expression system for *C. elegans*, we modified the QF transcriptional activator by fusing the LBD from the human glucocorticoid receptor (GR $\alpha$ ; National Center for Biotechnology Information gene ID: 2908) at the C terminus (QF-GR; Figure 1A).

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In order to achieve spatio-temporal control of gene expression in stomatal guard cells, a system was developed that incorporates the use of a guard cell-specific promoter (gcPEPC) (Kopka et al., 1997) and



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the ethanol-inducible gene switch  
(AlcR/alcA) (Caddick et al., 1998)  
in a modular system (pSATn/pPZP-  
RCS2) (Chung et al., 2005; Tzfira  
et al., 2005) that will enable the  
expression of ...

inducible, modular system for

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spatio-temporal control of ...

The light-inducible *vvd* promoter has a wide dynamic range that can be increased another two-fold when VVD's autoregulation is eliminated in the *vvd* knockout strain (Figures 2 and 4, B and C). Expression of both exogenous

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and endogenous genes under the  
vvd promoter is indeed greater  
than that from ccg -1, even after  
32 hr (Figure 3).

Light-Inducible System for  
Tunable Protein Expression in ...  
SNF1-related protein kinase 2

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(SnRK2) is an important stress-related protein kinase in plants. The SnRK2 family consists of 10 members (SRK2A–J/SnRK2.1–10) in the Arabidopsis genome (Mustilli et al. 2002, Yoshida et al. 2002, Hrabak et al. 2003), and can be classified into three

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Subgroups, subclasses I-III

(Kobayashi et al. 2004) (). Most of them (except SRK2J/SnRK2.9) are activated by ...

Two Closely Related Subclass II  
SnRK2 Protein Kinases ...

2.1.2. Repressible dimerization

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technology. A variation of the rapamycin-inducible gene expression system is the ligand-reversible dimerization strategy, which is based on self-sufficient homodimerization of mutated FKBP (called F M) in the absence of the immunosuppressive agent

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FK506 [1]. F M fused to ZFHD1 BD  
(F M -ZFHD1 BD) and p65  
(FM-p65) assembles to form a  
transactivator (ZFHD1 BD ...

Inducible gene expression in  
mammalian cells - ScienceDirect  
An inducible gene is a gene

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whose expression is either responsive to environmental change or dependent on the position in the cell cycle. Any step of gene expression may be modulated, from the DNA-RNA transcription step to post-translational modification of a



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protein. The stability of the final gene product, whether it is RNA or protein, also contributes to the expression level of the gene—an unstable product results in a low expression level.

Gene expression - Wikipedia

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Figure 1. The conditional knock-out approach for controlling gene expression. (A) Methodology. The 5'- and 3'-ends of the ACT1 intron (Int5' and Int3', respectively) were separated by a kanMX cassette, which contains the following sequences: the

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kanamycin resistance gene (kan r), the *Ashbya gossypii* TEF2 promoter (prom.) and terminator (term.) and tandemly oriented loxP sites.

Controlling gene expression in yeast by inducible site ...

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APPLICATIONS OF TETRACYCLINE-  
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Inducible systems designed for  
tetracycline-regulated gene  
expression in mammalian cells  
and transgenic animals have two  
central components:  
transcriptional transactivators

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that interact specifically with bacterial cis regulatory elements and antibiotics that modulate the binding of the transactivators at low, nontoxic doses (Shockett & Schatz 1996). The consequence is a substantial reduction of nonspecific pleiotropic effects

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analysis using transgenic plants overexpressing and/or ectopically expressing a gene of interest is a commonly used strategy to understand the function of novel genes or to engineer plants for human benefits.



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A Three-Component Gene

Expression System and Its ...

Transgene expression should be inducible to physiological levels to enable a therapeutic outcome.

(iv) Be regulatable over a wide dose range. Responsiveness to a wide dose range of the inducer

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will enable greater precision in titrating transgene expression levels to optimal therapeutic levels. (v) Exert no pleiotropic effects.

Gene Regulation Systems for Gene Therapy Applications in ...

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A gene fusion system based on plasmid pBBR1MCS and the expression of green fluorescent protein was developed for *Brucella suis*, allowing isolation of constitutive and inducible genes. Bacteria containing promoter fusions of chromosomal

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DNA to gfp were visualized by  
fluorescence microscopy and  
examined by flow cytometry.  
Twelve clones containing gene  
fragments induced inside J774  
murine ...

Note: Constitutive and Inducible

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Cells experience sustained periods of hypoxia in diseased tissues, such as malignant tumors, atherosclerotic plaques, and arthritic joints. 1-3 The predominant transcription factors mediating the effects of hypoxia

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on gene expression are hypoxia-inducible factors (HIFs) 1 and 2. 4, 5 These consist of distinct, hypoxia-responsive  $\alpha$  subunits and an identical, constitutively expressed  $\beta$  subunit.

Hypoxia-inducible factors 1 and 2

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are important ...  
Abstract. Inducible expression of  
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cells and animals is a current  
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answer such fundamental  
questions as: what is the signal  
and how and when is it produced?  
What is the receptor, and what  
further signalling molecules are  
involved? What is the  
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that is the ultimate target of the signalling pathway? What is the physiological role of factor?

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cDNAs and will prove useful in solving the majority of expression problems one is likely to encounter.

Cells have evolved multiple strategies to adapt the composition and quality of their

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protein equipment to needs imposed by changes in intra- and extracellular conditions. The appearance of proteins transmitting novel functional properties to cells can be controlled at a transcriptional, posttranscriptional, translational



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or posttranslational level.

Extensive research over the past 15 years has shown that transcriptional regulation is used as the predominant strategy to control the production of new proteins in response to extracellular stimuli. At the level

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of gene transcription, the initiation of mRNA synthesis is used most frequently to govern gene expression. The key elements controlling transcription initiation in eukaryotes are activator proteins (transactivators) that bind in a

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Sequence-specific manner to short DNA sequences in the of genes. The activator binding sites are elements of larger proximity control units, called promoters and enhancers, which bind many distinct proteins. These may synergize or negatively cooperate

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with the activators. The do novo binding of an activator to DNA or, if already bound to DNA, its functional activation is what ultimately turns on a high-level expression of genes. The activity of transactivators is controlled by signalling pathways and, in some

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cases, transactivators actively participate in signal transduction by moving from the cytoplasm into the nucleus. In this first volume of Inducible Gene Expression, leading scientists in the field review six eukaryotic transactivators that allow cells to

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respond to various extracellular stimuli by the expression of new proteins.

Drought is one of the most severe constraints to crop productivity worldwide, and thus it has become a major concern for

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global food security. Due to an increasing world population, droughts could lead to serious food shortages by 2050. The situation may worsen due to predicated climatic changes that may increase the frequency, duration and severity of droughts.

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Hence, there is an urgent need to improve our understanding of the complex mechanisms associated with drought tolerance and to develop modern crop varieties that are more resilient to drought. Identification of the genes responsible for drought tolerance



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in plants will contribute to our understanding of the molecular mechanisms that could enable crop plants to respond to drought. The discovery of novel drought related genes, the analysis of their expression patterns in response to drought, and

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determination of the functions these genes play in drought adaptation will provide a base to develop effective strategies to enhance the drought tolerance of crop plants. Plant breeding efforts to increase crop yields in dry environments have been slow to

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date mainly due to our poor understanding of the molecular and genetic mechanisms involved in how plants respond to drought. In addition, when it comes to combining favourable alleles, there are practical obstacles to developing superior high yielding

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genotypes fit for drought prone environments. Drought Tolerance in Plants, Vol 2: Molecular and Genetic Perspectives combines novel topical findings, regarding the major molecular and genetic events associated with drought tolerance, with contemporary

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researchers in the fields of plant  
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The tetracyclines have an  
illustrious history as therapeutic

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agents which dates back over half a century. Initially discovered as an antibiotic in 1947, the four ringed molecule has captured the fancy of chemists and biologists over the ensuing decades. Of further interest, as described in the chapter by George Armelagos,



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tetracyclines were already part of earlier cultures, 1500-1700 years ago, as revealed in traces of drug found in Sudanese Nubian mummies. The diversity of chapters which this book presents to the reader should illustrate the many disciplines which have

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examined and seen benefits from these fascinating natural molecules. From antibacterial to anti-inflammatory to anti autoimmunity to gene regulation, tetracyclines have been modified and redesigned for various novel properties. Some have called this

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molecule a biologist's dream because of its versatility, but others have seen it as a chemist's nightmare because of the synthetic chemistry challenges and "chameleon-like" properties (see the chapter by S. Schneider).

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Intracellular Receptors: New Instruments for a Symphony of Signals In the late eighteenth century, it was proposed on theoretical grounds that each of the body's organs, beginning with

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the brain, must be "a factory and laboratory of a specific humor which it returns to the blood", and that these circulating signals "are indispensable for the life of the whole" (Bordeu 1775). During the nineteenth century, some remarkable physiological

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experiments revealed the actions of humoral factors that affected the form and function of multiple tissues, organs and organ systems within the body (Berthold 1849); much later, the chemical and molecular nature of some of those factors was determined.

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Against this deep historical backdrop of the founding studies of intercellular signaling, molecular biology sprang into existence a mere forty years ago, rooted in the revelation of regulable gene expression in bacteria. But contemporaneous

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with those classical analyses of transcriptional regulation of the lactose operon, the modern era of signal transduction was inaugurated by the identification of cAMP as a second messenger -- an intracellular mediator of hormonal activation of glycogen



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catabolism (Sutherland and Rall 1960). Later in that same decade, it emerged that cAMP is a critical signal not only in metazoans, but even in bacteria, where it serves an analogous function as a critical switch that activates expression of genes required for catabolism

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of complex carbon sources,  
including those of the lactose  
operon.

Recent years have seen a  
growing interest in and activity at  
the interface between physics  
and biology, with the realization

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motion of biological materials and  
the increasingly complex  
behaviour that arises out of  
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giving rise to self organization,  
adaptation, selection and  
evolution: concepts of interest not  
only to biology and living systems

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but also within condensed matter physics. The approach adopted by Physics of Biomaterials: Fluctuations, Self Assembly and Evolution is tutorial, but the book is fully up to date with the latest research. Written at a level appropriate to graduate

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