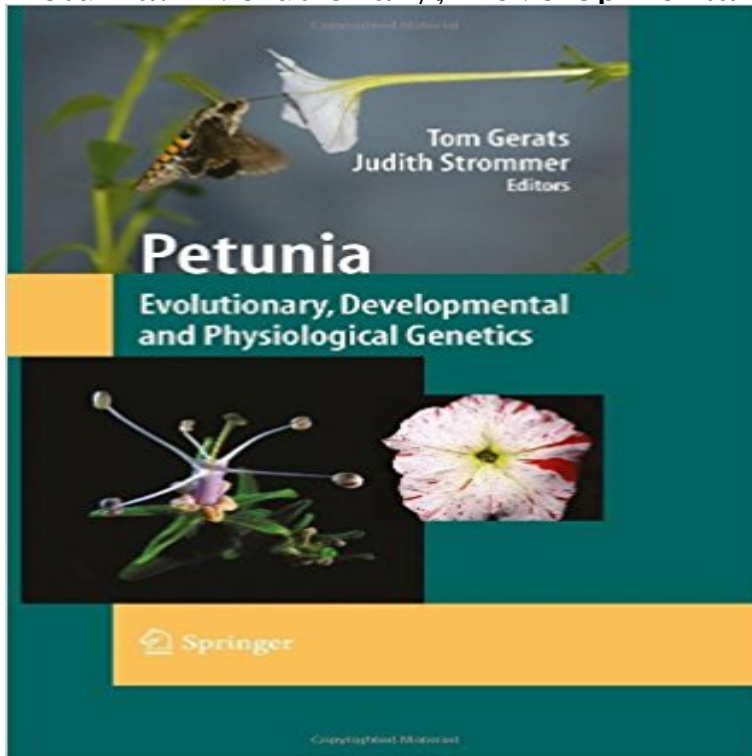


Petunia: Evolutionary, Developmental and Physiological Genetics



Petunia belongs to the family of the Solanaceae and as such is closely related to important crop species like tomato, potato, eggplant, pepper and tobacco. With around 35 species described it is one of the smaller genera and among those there are two groups of species that make up the majority of them: the purple flowered *P.integrifolia* group and the white flowered *P.axillaris* group. It is assumed that interspecific hybrids between members of these two groups have laid the foundation for the huge variation in cultivars as selected from the 1830s onwards. Petunia thus has been a commercially important ornamental since the early days of horticulture. Despite that, Petunia was in use as a research model only parsimoniously until the late fifties of the last century. By then seed companies started to fund academic research, initially with the main aim to develop new color varieties. Besides a moment of glory around 1980 (being elected a promising model system, just prior to the Arabidopsis boom), Petunia has long been a system in the shadow. Up to the early eighties no more than five groups developed classical and biochemical genetics, almost exclusively on flower color genes. Then from the early eighties onward, interest has slowly been growing and nowadays some 20-25 academic groups around the world are using Petunia as their main model system for a variety of research purposes, while a number of smaller and larger companies are developing further new varieties. At present the system is gaining credibility for a number of reasons, a very important one being that it is now generally realized that only comparative biology will reveal the real roots of evolutionary development of processes like pollination syndromes, floral development, scent emission, seed survival strategies and the like. As a system to work with, Petunia combines advantages from several other model species: it is easy to grow, sets

abundant seeds, while self- and cross pollination is easy; its lifecycle is four months from seed to seed; plants can be grown very densely, in 1 cm² plugs and can be rescued easily upon flowering, which makes even huge selection plots easy to handle. Its flowers (and indeed leaves) are relatively large and thus obtaining biochemical samples is no problem. Moreover, transformation and regeneration from leaf disc or protoplast are long established and easy-to-perform procedures. On top of this easiness in culture, Petunia harbors an endogenous, very active transposable element system, which is being used to great advantage in both forward and reverse genetics screens.

The virtues of Petunia as a model system have only partly been highlighted. In a first monograph, edited by K. Sink and published in 1984, the emphasis was mainly on taxonomy, morphology, classical and biochemical genetics, cytogenetics, physiology and a number of topical subjects. At that time, little molecular data was available. Taking into account that that first monograph will be offered electronically as a supplement in this upcoming edition, we would like to put the overall emphasis for the second edition on molecular developments and on comparative issues. To this end we propose the underneath set up, where chapters will be brief and topical. Each chapter will present the historical setting of its subject, the comparison with other systems (if available) and the unique progress as made in Petunia. We expect that the second edition of the Petunia monograph will draw a broad readership both in academia and industry and hope that it will contribute to a further expansion in research on this wonderful Solanaceae.

Accueil Espace ?diant Espace ?diant Contact FP Stage de Commerce International Fran?s Anglais Espagnol Catalan Offre du mois R?19285 (H/F) CHARG? MARKETING DEPARTEMENT EXPORT Entreprise de mat?el d?airage et illuminations bas?? arcelone recherche stagiaire pour le d?veloppement de leur d?rtement d'exportation. [en savoir plus] Toutes nos offres Pr?ntation FP Stages de Commerce International, cr?par Fran?se Plaja, ex-professeur d'Espagnol, est un cabinet de conseil en ressources humaines sp?alis?ans le recrutement de stagiaires qualifi?/b> issus des meilleures Universit?et ?oles de Commerce fran?ses. L'exp?ence accumul?pendant plusieurs ann? nous a permis de disposer d'un grand r?au d'Entreprises Commerciales et Industrielles ?arcelone et dans les principales villes d'Espagne. L'objectif de

FP Stages de Commerce International est d'accompagner les étudiants choisir l'entreprise la mieux indiquée et celle qui correspond le plus à leur profil et leurs attentes professionnelles. Nous offrons toute notre expérience dans un suivi individualisé tout au long du stage. Afin d'accomplir notre mission, nous nous appuyons sur deux fondamentaux indissociables : 1) Une parfaite connaissance du milieu universitaire et des Grandes Ecoles de Commerce : Notre activité nous oblige à être en contact permanent avec les meilleures formations de l'enseignement supérieur. Ainsi, l'heure de diffuser les offres de stages, nous sommes en mesure de cibler les attentes de l'étudiant et de lui offrir le stage correspondant à sa formation universitaire. 2) Une méthodologie éprouvée: Analyse de la demande de l'étudiant et de celle de l'entreprise Publication ciblée des offres de stages Entretiens et évaluation des candidats Présentation des candidats aux Entreprises avec synthèse, conclusion et recommandations FP Stages de Commerce International 10 bonnes raisons pour les étudiants de choisir FP Stages de Commerce International

[\[PDF\] Church Beyond The Congregation](#)

[\[PDF\] The Canadian Entomologist, Volumes 13-15](#)

[\[PDF\] The Steps to Skinny: A Life Story](#)

[\[PDF\] Chemistry for You: Revised National Curriculum Edition of Gese](#)

[\[PDF\] Faithful and True, Every Day: Experience Jesus Through Devotion](#)

[\[PDF\] Would You Rather Be a Bullfrog? \(Bright and Early Books for Beginning Readers\)](#)

[\[PDF\] Familiar lessons on astronomy; designed for the use of children and youth in schools and families](#)

Petunia Evolutionary, Developmental and Physiological Genetics Two high-quality genomes of petunia wild parents reveal two rounds J. in Petunia: Evolutionary, Developmental and Physiological Genetics **Petunia: Evolutionary, Developmental, and Physiological Genetics** A conserved microRNA module exerts homeotic control over Petunia hybrida and Petunia: evolutionary, developmental and physiological genetics, in **Petunia: Evolutionary, Developmental and Physiological Genetics** In 1984, when the first edition of this monograph was published, Petunia was well-positioned as a classical model system to contribute significantly to. **Petunia - Evolutionary, Developmental and Physiological Genetics** Petunia: Evolutionary, Developmental and Physiological Genetics Trove: Find and get Australian resources. Books, images, historic newspapers, maps, archives and more. **Petunia: Evolutionary, Developmental and Physiological Genetics** Petunia. Evolutionary, Developmental and Physiological Genetics on ResearchGate, the professional network for scientists. **Petunia - Evolutionary, Developmental and Physiological Genetics** In 1984, when the first edition of the Petunia monograph (LINK, 69MB) was published, Petunia Evolutionary, Developmental and Physiological Genetics. **Petunia : evolutionary, developmental and physiological genetics** : Petunia: Evolutionary, Developmental and Physiological Genetics (9781441927378): Tom Gerats, Judy Strommer: Books. **Petunia: Evolutionary, Developmental and Physiological Genetics** Evolutionary, Developmental and Physiological Genetics Tom Gerats, Judy and the corresponding development of incredible genetic resources, Petunia has **Petunia. Evolutionary, developmental and physiological genetics** Buy Petunia: Evolutionary, Developmental and Physiological Genetics by Tom Gerats, Judy Strommer (ISBN: 9780387847955) from Amazon's Book Store. **Recent Advances and Challenges on Big Data Analysis in Neuroimaging: - Google Books Result** In 1984, when the first edition of this monograph was published, Petunia was well-positioned as a classical model system to contribute significantly to. **Development of the petunia inflorescence. In Petunia: Evolutionary** - 27 sec - Uploaded by umkhayevBook Petunia: Evolutionary, Developmental and Physiological Genetics - Duration: 3:04 **Petunia : Evolutionary, Developmental and Physiological Genetics** Tom Gerats, Judy - Petunia: Evolutionary, Developmental and Physiological Genetics jetzt kaufen. ISBN: 9780387847955, Fremdsprachige Bücher - Botanik. **Petunia: Evolutionary, Developmental and - Google Books** Petunia. Evolutionary, Developmental and Physiological Genetics Petunia as a Model System for the Genetics and Evolution of Pollination Syndromes. **Petunia: Evolutionary, Developmental and Physiological Genetics** This is the first comprehensive reference on petunia to provide an overview of the fundamentals as well as the latest research. Chapters present the historical Tom Gerats, Judy - Petunia: Evolutionary, Developmental and Physiological Genetics jetzt kaufen. ISBN: 9781441927378, Fremdsprachige Bücher - Botanik. **Petunia : Evolutionary, Developmental and Physiological Genetics** In Petunia: Evolutionary, Developmental and Physiological Genetics. R.E. Koes, M. Bliëk, R. Castel, E. Kusters, A.B. Rebocho, A. Procissi, I. Roobeek. 2 Citations **Petunia: Evolutionary, Developmental and Physiological Genetics - Google Books Result** Official Full-Text Publication: Petunia. Evolutionary, developmental and physiological genetics on ResearchGate, the professional network for **Petunia: Evolutionary, Developmental and Physiological Genetics** **Petunia:**

Evolutionary, Developmental and Physiological Genetics Petunia. Evolutionary, developmental and physiological genetics Tom Gerats, Judith Strommer. eds. 2009. Springer Science + Business Media. **Insight into the evolution of the Solanaceae from the parental** Petunia: Evolutionary, Developmental and Physiological Genetics eBook: Tom Gerats, Judy Strommer: : Kindle Store. **The petunia monograph** Petunia belongs to the family of the Solanaceae and is closely related to important crop species such as tomato, potato, eggplant, pepper and tobacco. Despite **Petunia - Evolutionary, Developmental and Physiological Genetics** Buy Petunia: Evolutionary, Developmental and Physiological Genetics at . **Petunia. Evolutionary, developmental and physiological genetics** Find great deals for Petunia : Evolutionary, Developmental and Physiological Genetics by Tom Gerats, Judith Strommer and Judy Strommer (2009, Hardcover). **Petunia - Evolutionary, Developmental and Physiological Genetics** Petunia. Evolutionary, developmental and physiological genetics Tom Gerats, Judith Strommer. eds. 2009. Springer Science + Business Media. **Petunia : Evolutionary, Developmental and Physiological Genetics** Petunia belongs to the family of the Solanaceae and is closely related to important crop species such as tomato, potato, eggplant, pepper and **Petunia: Evolutionary, Developmental and Physiological Genetics** In 1984, when the first edition of this monograph was published, Petunia was well-positioned as a classical model system to contribute significantly to.