



DOWNLOAD



# Heterogeneity in Tumour Necrosis Factor induced Pro- and Anti-Apoptotic Signalling from a Systems Biology Perspective

By Monica Schliemann

Shaker Verlag Mrz 2013, 2013. Buch. Book Condition: Neu. Neuware - Many immune hormones are pleiotropic, i.e. they can induce a broad, even contradictory pattern of cellular responses. This also holds true for the cytokine tumour necrosis factor (TNF), which is able to trigger apoptosis, but can also stimulate cellular growth. The final fate of a given cell after TNF stimulation is highly dependent on the balance between the implicated pathways in combination with the cellular context. This study analyses the complex interplay of the crosstalk of TNF receptor type 1 (TNF-R1) induced pro- and anti-apoptotic signalling pathways. Both signalling pathways are regulated via feedback loops. For example, the mutual activation of caspases includes a positive feedback loop, while I $\kappa$ B $\alpha$  and NF- $\kappa$ B form a negative feedback loop. A well defined model of TNF-induced apoptosis is the human cell line KYM-1, on which experimental kinetic data (life cell imaging, western blotting, cytotoxicity and caspase activity assays as well as microinjections) were obtained at various concentrations of TNF. A useful tool integrating quantitative, dynamical data with the corresponding hypotheses is mathematical modelling, which formalises the biological knowledge and allows for generating model-based predictions. Based on this thesis' experimental findings, in particular that...



READ ONLINE

## Reviews

*These sorts of ebook is the perfect publication accessible. I really could comprehend every little thing out of this created e ebook. I am very happy to inform you that this is basically the very best ebook i actually have study within my personal life and might be he finest pdf for ever.*

-- **Favian O'Kon**

*These sorts of ebook is the greatest ebook readily available. Sure, it can be engage in, nonetheless an interesting and amazing literature. I realized this pdf from my dad and i encouraged this pdf to learn.*

-- **Nicolette Hodkiewicz**

## See Also



### **Programming in D**

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...



### **The Java Tutorial (3rd Edition)**

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book stands above the rest because it has...



### **Have You Locked the Castle Gate?**

Addison-Wesley Professional. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Is your computer safe Could an intruder sneak in and steal your information, or plant a virus Have...



### **Mom Has Cancer!**

Barron's Educational Series. Paperback / softback. Book Condition: new. BRAND NEW, Mom Has Cancer!, Jennifer Moore-Mallinos, Marta Fabrega, The sensitively written " Letas Talk About It Books " encourage preschool-age and early-grades children to explore their feelings, deal with problems that trouble...



### **Adobe Indesign CS/Cs2 Breakthroughs**

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Adobe InDesign is taking the publishing world by storm and users are hungry for breakthrough solutions to...



### **Psychologisches Testverfahren**

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...