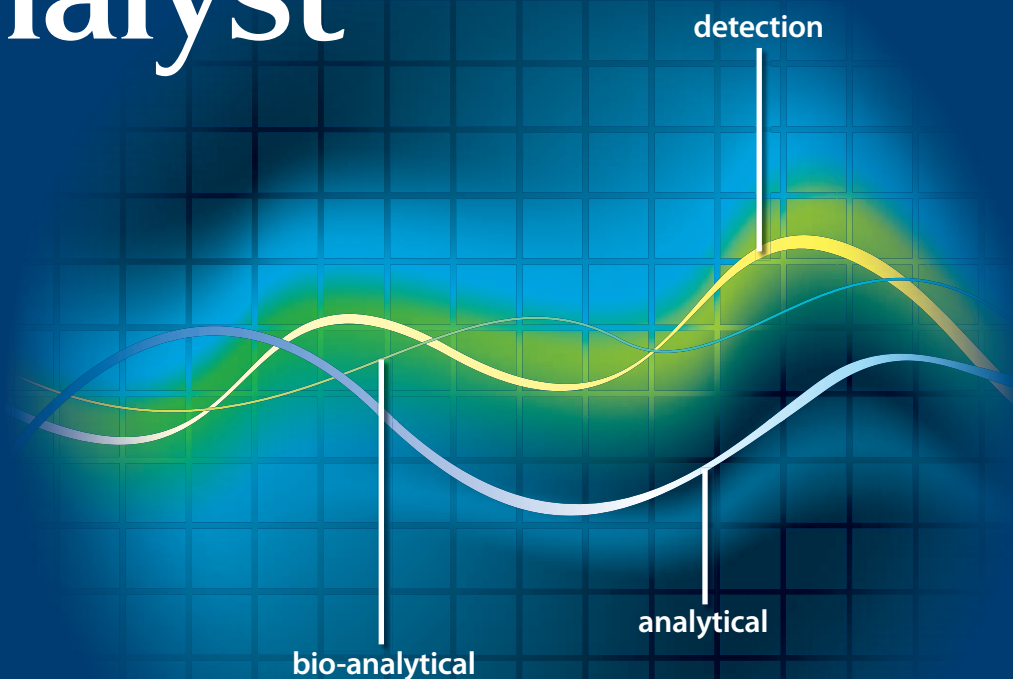


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*Prasanna Alluri, Bo Liu, Peng Yu, Xiangshu Xiao and Thomas Kodadek*

Insights into the behaviour of systems biology models from dynamic sensitivity and identifiability analysis: a case study of an NF- $\kappa$ B signalling pathway

*Hong Yue, Martin Brown, Joshua Knowles, Hong Wang, David S. Broomhead and Douglas B. Kell*

### Reviews

Direct detection of double-stranded DNA: molecular methods and applications for DNA diagnostics

*Indraneel Ghosh, Cliff I. Stains, Aik T. Ooi and David J. Segal*

Understanding ion channel selectivity and gating and their role in cellular signalling

*Ben Corry*

### Highlight

Alternative workflows for plant proteomic analysis

*Joohyun Lee and Bret Cooper*

### Opinion

The Future of Proteomic Analysis in Biological Systems and Molecular Medicine

*Steven J. Bark and Vivian Hook*

### Hot off the Press

In each issue, members of the Editorial Board and their research groups highlight recent literature for the benefit of the community