

## The field of tension between toxicology and basic and clinical sciences

H. M. Bolt · J. D. Stewart

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The editors of the Archives of Toxicology find themselves in the difficult situation of deciding whether articles on basic and clinical sciences should remain within the focus of this journal (Bolt and Stewart 2009). In recent years, articles highlighting on basic molecular mechanisms have been particularly encouraged. Nevertheless, it is clear that articles focussing on chemicals and their interactions with healthy organisms and cells remain the major focus of our journal. In order to address the field of tension between toxicology and basic and clinical sciences, we closely cooperate with our partner journal *Experimental and Clinical Sciences (EXCLI Journal)*. Table 1 gives our readers a rapid overview of the key messages of recently published articles in *EXCLI Journal*.

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H. M. Bolt (✉) · J. D. Stewart  
Leibniz Institut für Arbeitsforschung an der TU Dortmund,  
Leibniz Research Centre for Working Environment and Human  
Factors (IfADo), Ardeystrasse 67, 44139 Dortmund, Germany  
e-mail: bolt@ifado.de

**Table 1** Highlights in experimental and clinical sciences

Key message	Reference
Six novel bioactive triterpenoids have been identified that show antimalarial activity	Prachayasittikul et al. (2010a, b)
The C allele of N-methyl-D-aspartate receptor NR1 subunit gene (GRIN1) is associated with increased susceptibility of schizophrenia	Saadat (2010a, b)
Protein types in bambara nut seeds were characterized to evaluate their utility for dietary protein supply in developing countries	Okpuzor et al. (2010)
A support vector regression-based technique is presented that predicts the solvent accessibility of proteins	Meshkin and Ghafuri (2010)
Homidium chloride and diminazene aceturate improve anemia in rats	Sulaiman and Adeyemi (2010)
Spiroinolactone decreased inflammatory visceral pain in a mouse model	Abdel-Salam et al. (2010)
The CD4 count was analyzed as a prognostic measure of HIV patients	Agbede et al. (2010)
Transplantation of G-CSF-mobilized peripheral blood monocytes improves the function of cirrhotic livers in rats	Yan et al. (2010)
The offspring sex ratio is associated with maternal breast cancer risk	Saadat (2010a, b)
A Bayesian neural network-based technique for prediction of ischemic heart disease from magnetocardiograms was established	Kangwanariyakul et al. (2010)
The impact of traditional chalkboard and PowerPoint teaching on students' performance was better than lecture techniques based on transparencies and overhead projectors	Seth et al. (2010)
A novel sulfoxide analog of 1,2,3,6-tetrahydrophenylpyridine was established that shows antimicrobial activity	Prachayasittikul et al. (2010a, b)
This study compiles proteomic alterations in <i>E. coli</i> caused by paraquat	Isarankura-Na-Ayudhya et al. (2010)
Melatonin protects against the oxidative effect of cadmium in the hippocampal cholinergic system of mice	Mukherjee et al. (2010)
A new approach to speed up the protein classification process is introduced	Al-Daoud (2010)
Novel derivatives of 3-(4-hydroxyphenyl) methylpropenoate with anti-microbial activity were identified	Dosumu et al. (2010)
Chemical constituents of leaf essential oil with anti-inflammatory activity have been identified	Usman et al. (2010)
Extracts of African mistletoe leaves have been identified that show hepatoprotective effects	Patrick-Iwuanyanwu et al. (2010)
Vascular adaptations to simulated microgravity in rats are associated with altered VCAM-1 expression	Zhang et al. (2010)
A minireview addressing anti-oxidative and anti-atherosclerotic mechanisms of human paraoxonase 2	Porntadavity et al. (2010)
An overview of metal toxicity, recent developments in genotoxicity research, drug metabolism, oxidative stress, and in vitro systems for toxicity testing are given in a series of editorials	Stewart (2010a, b), Marchan (2010), Godoy (2010), Reif et al. (2010)

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