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Volume 926, Pages 1-108 (1 May 2013)

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Articles in Press
Volume 930 (2013) Volume 929 (2013) Volume 928 (2013) Volume 927 (2013) Volume 926 (2013) Volume 926 pp. 1-108 (1 May 2013) Volume 925 (2013) Volume 923 (2013) Volume 921 (2013) Volume 919 (2013) Volume 917 (2013) Volume 915 (2013) Volume 913 (2013) Volume 912 (2013) Volume 911 (2012) Volume 910 (2012) Volume 909 (2012) Volume 908 (2012) Volume 907 (2012) Volume 906 (2012) Volume 905 (2012) Volume 904 (2012) Volume 903 (2012) Volume 902 (2012) Volume 901 (2012) Volume 900 (2012) Volume 899 (2012) Volume 898 (2012) Volume 897 (2012) Volume 895 (2012) Volume 893 (2012) Volume 891 (2012) Volume 889 (2012) Volume 887 (2012) Volume 885 (2012) Volume 883 (2012) Volume 881 (2012) Volume 880 (2012) Volume 879 (2011) Volume 878 (2010) Volume 877 (2009) Volume 876 (2008) Volume 875 (2008)

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articles 1 - 17	
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2 <input type="checkbox"/>	LC-MS/MS quantification of a neuropeptide fragment kisspeptin-10 (NSC 741805) and characterization of its decomposition product and pharmacokinetics in rats <small>Original Research Article</small> <i>Pages 1-8</i> Zhongfa Liu, Chen Ren, William Jones, Ping Chen, Stephanie B. Seminara, Yee-Ming Chan, Nicola F. Smith, Joseph M. Covey, Jeffrey Wang, Kenneth K. Chan Show preview Supplementary content Related articles Related reference work articles
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Highlights	
▶ First LC-MS/MS method to measure kisspeptin-10 (Metastin) in rat plasma. ▶ The LLOQ is 0.5 ng/mL with CVs (<16%) and accuracy (85–115%). ▶ Capable of characterizing the pharmacokinetics of metastin up to 30 min in rats. ▶ A N-terminal tyrosine deleted kisspeptin-10 ⁴⁶ NWDSFGLRF-NH ₂ ⁵⁴ metabolite characterized.	
3 <input type="checkbox"/>	Large scale purification of the SERCA inhibitor Thapsigargin from <i>Thapsia garganica</i> L. roots using centrifugal partition chromatography <small>Original Research Article</small> <i>Pages 16-20</i> Anthony Ollivier, Raphaël Grounget, Xavier Cachet, Djamilia Meriane, Janick Ardisson, Sabrina Boutefnouchet, Brigitte Deguin Show preview Supplementary content Related articles Related reference work articles
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Highlights	
▶ Thapsigargin is a very useful tool to study calcium-dependent signaling pathways. ▶ Isolation of Thapsigargin from <i>Thapsia garganica</i> L. is highly hazardous. ▶ We developed a two steps procedure coupling accelerated solvent extraction to CPC. ▶ Thapsigargin amount in different specimens of <i>Thapsia garganica</i> L. was quantified. ▶ Highly pure Thapsigargin could be obtained using a fast and safe procedure.	

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 Volume 859 (2007)
 Volume 858 (2007)
 Volume 857 (2007)
 Volume 856 (2007)
 Volume 855 (2007)
 Volume 854 (2007)
 Volume 853 (2007)
 Volume 852 (2007)
 Volume 851 (2007)
 Volume 850 (2007)
 Volume 849 (2007)
 Volume 848 (2007)
 Volume 847 (2007)
 Volume 846 (2007)
 Volume 845 (2007)
 Volume 844 (2006)
 Volume 843 (2006)
 Volume 842 (2006)
 Volume 841 (2006)
 Volume 840 (2006)
 Volume 839 (2006)
 Volume 838 (2006)
 Volume 837 (2006)
 Volume 836 (2006)
 Volume 835 (2006)
 Volume 834 (2006)
 Volume 833 (2006)
 Volume 832 (2006)
 Volume 831 (2006)
 Volume 830 (2006)
 Volume 829 (2005)
 Volume 828 (2005)
 Volume 827 (2005)
 Volume 826 (2005)
 Volume 825 (2005)
 Volume 824 (2005)
 Volume 823 (2005)
 Volume 822 (2005)
 Volume 821 (2005)
 Volume 820 (2005)
 Volume 819 (2005)
 Volume 818 (2005)
 Volume 817 (2005)
 Volume 816 (2005)
 Volume 815 (2005)
 Volume 814 (2005)
 Volume 813 (2004)
 Volume 812 (2004)
 Volume 811 (2004)
 Volume 810 (2004)
 Volume 809 (2004)
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 Volume 804 (2004)
 Volume 803 (2004)
 Volume 802 (2004)
 Volume 801 (2004)
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 Volume 795 (2003)
 Volume 794 (2003)
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 Volume 789 (2003)
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- 4 **Reversed phase High Performance Liquid Chromatography used for the physicochemical and thermodynamic characterization of piceatannol/ β -cyclodextrin complex** Original Research Article
 Pages 21-27
 Hanane Messiad, Habiba Amira-Guebailia, Omar Houache
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Highlights

► The first attempt to study the complexation of piceatannol with β -cyclodextrin. ► HPLC with UV–vis detection was used for characterization of complex in solution. ► Decreasing retention times with increasing β -cyclodextrin concentration confirmed the complex formation.

- 5 **Comparative pharmacokinetics of timosaponin B-II and timosaponin A-III after oral administration of Zhimu–Baihe herb-pair, Zhimu extract, free timosaponin B-II and free timosaponin A-III to rats** Original Research Article
 Pages 28-35
 Zhirui Liu, Xin Dong, Xuan Ding, Xiaofei Chen, Lei Lv, Yueyue Li, Yifeng Chai
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- 6 **Development and validation of a simple and sensitive method for quantification of levodopa and carbidopa in rat and monkey plasma using derivatization and UPLC–MS/MS** Original Research Article
 Pages 47-53
 Venkatraman Junnotula, Hermes Licea-Perez
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- 7 **Analysis of tacrolimus and creatinine from a single dried blood spot using liquid chromatography tandem mass spectrometry** Original Research Article
 Pages 54-61
 Dennis R. Koop, Lisa A. Bleye, Myrna Munar, Ganesh Cherala, Amira Al-Uzri
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Highlights

► Methods developed to determine both tacrolimus and creatinine from a single dried blood. ► The method correlated well with current clinical laboratory tests. ► The method can be used to only monitor renal function if needed.

- 8 **Ultrasound-assisted surfactant-enhanced emulsification microextraction with solidification of floating organic droplet followed by high performance liquid chromatography for the determination of strobilurin fungicides in fruit juice samples** Original Research Article
 Pages 62-67
 Pei Liang, Guojiao Liu, Fang Wang, Wanting Wang
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Highlights

► UAESEME-SFOD with HPLC was developed for the determination of strobilurin fungicides. ► The enrichment factors of this method are from 95 to 135. ► The extraction recoveries are in the range of 82.6–97.5%. ► The limits of detection are 2–4 ng mL⁻¹.

- 9 **Liquid chromatography/tandem mass spectrometry method for quantitative estimation of polyethylene glycol 400 and its applications** Original Research Article
 Pages 68-76
 V. Vijaya Bhaskar, Anil Middha, Sudhir Tiwari, Savithiri Shivakumar
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[Volume 774 \(2002\)](#)
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Highlights

► An MRM based bioanalytical method was developed for the quantitative estimation of PEG 400 in rat plasma. ► Developed methods applicability was proved by performing a rodent PK study and characterised the PK parameters of PEG 400. ► Formulation excipients can be analysed as qualifier in the analysis of NCEs to address the spiky profiles. ► Differences in pharmacokinetics of PEG 400 oligomers was established.

10

Purification of porcine pancreatic lipase by aqueous two-phase systems of polyethylene glycol and potassium phosphate

Original Research Article

Pages 77-82

Yu-Jie Zhou, Cheng-Li Hu, Na Wang, Wei-Wei Zhang, Xiao-Qi Yu

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11

Simultaneous analysis of anticancer agents bortezomib, imatinib, nilotinib, dasatinib, erlotinib, lapatinib, sorafenib, sunitinib and vandetanib in human plasma using LC/MS/MS

Original Research Article

Pages 83-91

Irina Andriamanana, Ines Gana, Bénédicte Duret, Anne Hulin

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Highlights

► The quantification of nine inhibitors of tyrosine kinase in a single run. ► The improvement of the specificity using LCMSMS and confirmation/quantification ions ratios. ► The ability to add in our method new ITKs that could have an interest in clinical practices. ► The large dynamic ranges of concentrations that allow to carry out some pharmacokinetics studies.

12

Bio-generation of stable isotope labeled internal standards for absolute and relative quantitation of drug metabolites in plasma samples by LC-MS/MS

Original Research Article

Pages 92-100

Pei Li, Yong Gong, Heng-Keang Lim, Wenying Jian, Richard W. Edom, Rhys Salter, Jose Silva, Naidong Weng

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13

Development and validation of a rapid and sensitive UPLC-MS/MS method for determination of total docetaxel from a lipid microsphere formulation in human plasma

Original Research Article

Pages 101-107

Ping Du, Ning Li, Hongyu Wang, Sheng Yang, Yuanyuan Song, Xiaohong Han, Yuankai Shi

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Highlights

► Docetaxel lipid microsphere is a novel formulation of docetaxel without Tween 80. ► A rapid and sensitive UPLC-MS/MS method is firstly developed. ► Shorter analytical time of only 2.5 min. ► The LLOQ of this assay was 2 ng/ml using 200 µl human plasma. ► This method could be applied to a clinical pharmacokinetic study.

Short Communications

14

Simultaneous determination of tramadol, O-desmethyltramadol and N-desmethyltramadol in human urine by gas chromatography-mass spectrometry

Pages 9-15

Abdel-Aziz Y. El-Sayed, Khaled M. Mohamed, Ahmed Y. Nasser, Jennifer Button, David W. Holt

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Highlights

► Simultaneous determination of tramadol and its main metabolites using GC-MS was recommended. ► The presented extraction procedure offers a rapid way to isolate tramadol and its main metabolites from the urine matrix. ► The procedure was

successfully applied for the analysis of tramadol and its main metabolites in urine samples. ► The procedure was easily incorporated into routine testing for a laboratory.

15

A validated HPLC–MS/MS assay for quantifying unstable pharmacologically active metabolites of clopidogrel in human plasma: Application to a clinical pharmacokinetic study

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Michael T. Furlong, Ishani Savant, Mousun Yuan, Laura Scott, William Mylott, Thomas Mariannino, Pathanjali Kadiyala, Vikram Roongta, Mark E. Arnold

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Highlights

► Assay to quantify four chemically reactive thiol metabolites of clopidogrel. ► Stabilization of the thiol group by alkylation with 2-bromo-3'-methoxyacetophenone. ► Separation of the four derivatized diastereomeric metabolites by HPLC. ► Application of the assay to a clinical pharmacokinetic study.

16

Determination of dapoxetine in rat plasma by ultra-performance liquid chromatography–tandem mass spectrometry

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Tae Kon Kim, In Sook Kim, Seok Hyun Hong, Yun Kyoung Choi, Hohyun Kim, Hye Hyun Yoo

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17

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Page 108

Yu-ling Sun, Yuo-sheng Chang, Yin-shen Lin, Chon-ho Yen

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articles 1 - 17

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