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compositae: flavonoid patterns in the *Chrysanthemum* complex of the

Study on the Flavonoids from *Lonicera confusa* DC.

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【ABSTRACT】 AIM: To investigate the active constituents in *Flos Lonicera* (Jinyinhua, in Chinese), and to estimate the quality of *Flos Lonicera* more roundly. METHOD: Many kinds of column chromatography were used to isolate the compounds from the EtOH ext. of *Lonicera confusa* DC. The chemical constituents of the plant were identified by means of IR, MS, ^{1}HNMR, ^{13}CNMR, respectively, in some cases by direct comparison with authentic samples. RESULT: Eight flavonoids were isolated from *L. confusa* DC. and identified as: luteolin (Ⅰ), quercetin (Ⅱ), tricin (Ⅲ), tricin-7-*O*-β-*D*-glucopyranoside (Ⅳ), luteolin-7-*O*-β-*D*-galactoside (Ⅴ), rutin (Ⅵ), chrysoeirol-7-*O*-neohesperidoside (Ⅶ), and tricin-7-*O*-neohesperidoside (Ⅷ). CONCLUSION: Compounds Ⅲ, Ⅳ, Ⅵ, Ⅶ and Ⅷ were firstly isolated from this genus, and others were firstly isolated from this plant.

【KEY WORDS】 Honeysuckle flower; *Lonicera confusa* DC.; Chemical constituents; Flavonoids

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·新技术·

中药智能连续逆流提取设备

据报道，一种可明显提高中药产品质量的"中药智能连续逆流提取设备"最近由黑龙江省计算中心的科研人员研制成功，并于日前在哈尔滨的医药企业进行了中药材单提和混提生产，取得了良好的应用效果。据悉，中药连续逆流自动控制提取技术装备作为国家中药行业"十五"规划重点推广应用技术之一，多年来国内已有不少单位相继进行这方面的研究开发工作，但至今尚没有成熟的设备产品在中药提取生产中实际应用。有关专家认为，这项成果的推出对于提升中药的现代化水平提供了有力的技术支持。这项成果已申报国家专利。

"数字可视化中药"研制成功

据报道，中国中药材数字可视化技术及其图鉴系统——"数字可视化中药"，近日研制成功，并获得中华中医药学会科技进步一等奖。据介绍，"数字可视化中药"可以为全方位刻画中药材形态结构、鉴别道地与非道地药材等提供三维定量的鉴定技术和图像资料；可以为中药鉴定学、生药学、植物解剖学和植物分类学等提供良好的辅助教学工具和图像资料；能形象生动地再现中药和植物的外观和微观的立体结构以及组织细胞的空间关系，有助于揭示植物和中药材的生长发育规律、次生代谢产物积累分布动态、中药材品质变化规律、道地药材形成的生物学机制等。据悉，该课题组目前已完成郁金类、附子类、麦冬类等道地药材的数字化可视化研究。据此认为，"数字可视化中药"在中药鉴定、教学、科研等学科领域具有良好的应用前景。 (摘自：中医药在线网)