Regional Report

European Chapter

Report by Prof. Dr. Rudolf Bauer,
Chairman of the European Chapter of CGCM
and Past President of GP-TCM Research Association



European Chapter

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#	Sino-Dutch Center for preventive and personalized Medicine	Prof. Van der Greef Jan			



The GP-TCM Research Association 中医药规范研究学会





Board of Directors (2015-2016)

学会领导机构选举和主要任命



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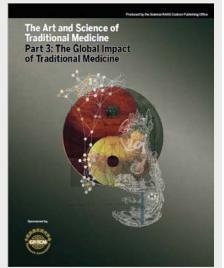
























The 5th Annual Meeting of GP-TCM Research Association-cum-Summit on Compendium of Materia Medica and Innovative Drug Discovery in Chinese Medicine

FIRST ANNOUNCEMENT

9-10 August 2016

Room 103, Dr. Hari Harilela Lecture Theatre, The Wing Lung Bank Building for Business Studies Hong Kong Baptist University (Shaw Campus), 34 Renfrew Road, Kowloon Tong, Hong Kong

"The 5th Annual Meeting of GP-TCM Research Association-cum-Summit on Compendium of Materia Medica and Innovative Drug Discovery in Chinese Medicine", jointly organised by GP-TCM Research Association, School of Chinese Medicine of Hong Kong Baptist University, and TCM Chemistry Specialty Committee and TCM Pharmaceutical Analysis Specialty Committee of WFCMS, will be held on 9–10 August 2016 on the campus of Hong Kong Baptist University, Hong Kong.

This international academic event is hosted by the School of Chinese Medicine to celebrate the 60th anniversary of the Hong Kong Baptist University. The details are set out below.



All activities are published in the

Newsletters

(Editor in Chief: Taiping Fan, assisted by Qihe Xu)

http://www.gp-tcm.org/news-list/

The June-July 2016 New The GP-TCM Research



Editorial

After the Nobel Prize - What Next?



Member of the Board of Directors, The GP-TCM Research Association
Department of Pharmaceutical Biology
Institute of Pharmacy and Biochemistry
Johannes Gutenberg University, Mainz, Germany
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The Nobel Prize for Physiology or Medicine 2015 was not only pleasing honour to Youyou Tu herself for her life-time achievemen on artenisarin and malaria therapy, but also to the entire scienti community working on traditional Chinese medicine (TCM) at once a su surprise that the Nobel Prize to Youyou Tu w

community working on traditional Chinese medicine (TCM) phytotherapy. Therefore, it did not come as a surprise that the Nobel Prize to Youyou Tu anticipated with much enthusiasm. Now, when the celebrations are over and the grey everyday work reality is returning back the right time to address the question what is coming next and how to continue from here. In words, which sustainable actions are needed to come to long-lasting and significant improvement TCM and phytotherapy in general for the sake of patients?

It has to be frankly confessed that research and development on artemisinin as medication followed more the rules and strategies of classical pharmacological drug development of a typical phytotherapeutic drug. The process ended with a cher substance rather than with a standardized herbal product.

substance rather than with a standardized herbal product.

The same is true for many other drugs which became established parts of modern pharmacopias. We all know and like to frequently cited papers of Newman and Cragg [1] stating that a majority of modern drugs are denived in one or the other way from natural sources. Again, these drug developments were inspired by nature, but not phytotherapies in the strictest sense.

At this point, it should be mentioned that detractors emphasize that the Nobel Award Committee in Stockholm did not honour TCM. but the fight against parasitic diseases in tropical countries. We in the field of TCM and phytotherapy should, hence, ask ourselves "que vaids," hytotherapy should, hence, ask ourselves "que vaids," has a matter of fact, traditional medicine is being applied million times on this globe, and herefore the general conditions are basically different from those of synthetic chemical drugs. This may be an advantage, but represents a disadvantage at the same time, because there is less burning economic pressure to fulfill the strict regulations of the drug-approval authorities. If an herbal preparation is not marketed as drug by a pharmaceutical company, it can be either sold over the counter as delary supplement without fulfilling any quality control measures or it can be used as therapeutic drug for individual compassionate uses. These practices demonstrate that herbal medicines are popular armong patients, but they frequently do not provide sufficient evidence that was as fan and efficacious.

As popular TCM and herbal medicines are among physicians, practitioners and patients all

are sate and efficacious.

As popular TCM and herbal medicines are among physicians, practitioners and patients all over Asia, as critical they are considered among the medical community in the West. Several reasons can be discussed to explain this contradiction. One problem is certainly that herbal medicine does not belong to the standard repertoire of knowledge that is taught in our medical schools to the students. This is a fatal situation to my point of view. Another critical issue is, however, that the safety and quality of herbal products has still not been proven to the same extent, as it is routinely done for symbelic drops.



Elaboration of Monographs for TCM herbs by the European Pharmacopoeia

TCM-Working Party 建立传统中药研究团队 Chairman: Gerhard FRANZ



Name First Name Country **BAUFR** Rudolf Austria BILIA Anna Rita Italy DUEZ Pierre Belgium ERDOGAN ORHAN Ilkav Turkey **FOURASTE** Isabelle France GASSER Uwe Michael Germany **GLOWNIAK** Kazimierz Poland De-An China **HARPUT** Sebnem Turkey LAENGER Reinhard Austria LEHMANN Thomas Switzerland REICH Eike Switzerland SOUSSAIN Robert France STOEGER **Erich Andreas** Germany WANG Mei The Netherlands WANG-TSCHEN Shu-Yuan Switzerland WHALEY Michael **United Kingdom** WUTHOLD Kim Germany



Elaboration of Monographs for TCM herbs for the European Pharmacopoeia 欧洲药典的中草药专著的确立和发展

- >60 Monographs adopted by the Eur. Pharmacopoeia Commission 欧洲药典委员会已接纳>60篇专著
- Ca. 30 attributed to Specialists 约30人取得专家资格认证
- Monographs published as drafts in PHARMEUROPA 篇论文作为草案在欧洲药典官网上发表
- Monographs for *General Methods* 通用方法论著:
- -Chapter on processing: published 加工制作: 已发表
- -Test for asristolochic acids: published 马兜铃酸的检测: 已发表
- -Test for pyrrolizidine alkaloids: pending 咯烷类生物碱的测试: 待定



University of Cagliari Prof. Enzo Tramontano

Phytomedicine 23 (2016) 1383-1391



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journal homepage: www.elsevier.com/locate/phymed



European

harmacopoeia

Original article

Sennoside A, derived from the traditional chinese medicine plant Rheum L., is a new dual HIV-1 inhibitor effective on HIV-1 replication



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 ^b Department of Molecular Medicine, University of Padowa, via Cabelli 63, 35721 Padowa, Italy
 Finstitute of Medicinal Plant Development (IMPLAD), 151 Malianowa North Road Hadidian District, 100193 Beijing, China
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ARTICLE INFO

Article history: Received 26 April 2016 Revised 19 July 2016 Accepted 9 August 2016

Keywords: Sennoside A HIV-1 Reverse transcriptase Antiviral activity Plant extracts Dual inhibitor

ABSTRACT

Background: Despite the availability of effective antiretroviral therapies, drugs for HIV-1 treatment with new mode of action are still needed. An innovative approach is aimed to identify dual HIV-1 inhibitors, small molecules that can inhibit two viral functions at the same time. Rhubarb, originated from Rheum palmatum L. and Rheum officinale Baill., is one of the earliest and most commonly used medicinal plants in Traditional Chinese Medicine (TCM) practice. We wanted to explore TCM for the identification of new

chemical scaffolds with dual action abilities against HIV-1.

Methods: R. palmatum L. and R. officinale Baill. extracts along with their main single isolated constituents anthraquinone derivatives were tested on both HIV-1 Reverse Transcriptase (RT)-associated DNA Polymerase (RDDP) and Ribonuclease H (RNase H) activities in biochemical assays. Active compounds were then assayed for their effects on HIV-1 mutated RTs, integrase (IN) and viral replication. Results: Both R. palmatum L. and R. officinale Baill. extracts inhibited the HIV-1 RT-associated RNase H

activity. Among the isolated constituents, Sennoside A and B were effective on both RDDP and RNase H RT-associated functions in biochemical assays. Sennoside A was less potent when tested on K103R, Y181C, Y181L, N474A and Q475A mutated RTs, suggesting the involvement of two RT binding sites for its antiviral activity. Sennoside A affected also HIV-1 IN activity in vitro and HIV-1 replication in cell-based assays. Viral DNA production and time of addition studies showed that Sennoside A targets the HIV-1 reverse transcription process

Conclusion: Sennoside A is a new scaffold for the development of HIV-1 dual RT inhibitors.

Sino-Dutch Center for Preventive and Personalized Medicine

Prof. Jan Van der Greef

Publications:

Jan van der Greef, Herman van Wietmarschen, Yan Schroen, Nathalie Babouraj, and Marion Trousselard. Systematic Approaches to Evaluation and Integration of Eastern and Western Medical Practices **Medical Acupuncture**, Volume 27, Number 5, 2015

Min He, Eduard Van Wijk, Ruud Berger, Mei Wang, Katrin Strassburg, Johannes C. Schoeman, Rob J Vreeken, Herman Van Wietmarschen, Amy C Harms, Thomas Hankemeier, Jan van der Greef. Collagen Induced Arthritis in DBA/1J Mice Associates with Oxylipin Changes in Plasma. **Mediators Inflamm**. 2015;2015:543541. doi: 10.1155/2015/543541.

Min He, Mengmeng Sun, Eduard van Wijk, Herman van Wietmarschen, Roeland van Wijk, Zhihong Wang, Mei Wang, Thomas Hankemeier, Jan van der Greef. A Chinese literature overview on ultra-weak photon emission as promising technology for studying system-based diagnostics. **Complementary Therapies and Medicine** 2016; 25: 20-26

Yan Schroën, Mei Wang, Herman A. van Wietmarschen, Renger Witkamp, Thomas Hankemeier, Tai-Ping Fan, Jan van der Greef. Bridging the seen and the unseen—A systems pharmacology view of the bioactivity of rhizoma Dioscorea nipponica Mankino. **Science** 2015; 350 (6262 Suppl): S66-69

Delayed luminescence: an experimental protocol for Chinese herbal medicines. Sun M, van Wijk R, van Wijk E, Wang M, van Wietmarschen H, Hankemeier T, van der Greef **J. Luminescence**. 2016 Jan 28. doi: 10.1002/bio.3094.

Activities: made major progress in using ultra-low photon emission (UPE) as a new methodology to characterize TCM diagnosis and TCM herbal medicine in the last period.



TCM Research Center Graz, Herbal Medicine, University of Graz Published papers on TCM related topics in 2015 and 2016: Prof. Rudolf Bauer

- 1. Lohberger, B., Kretschmer, N., Bernhart, E., Rinner, B., Stuendl, N., Kaltenegger, H., Kahl, S., Bauer, R., Leithner, A. **25-O-acetyl-23,24-dihydro-cucurbitacin F induces cell cycle G2/M arrest and apoptosis in human soft tissue sarcoma cells.** J Ethnopharmacology 164(2): 265 272 (2015)
- Zhao, Q., Kretschmer, N., Bauer, R., Efferth, T. Shikonin and its derivatives inhibit the epidermal growth factor receptor signaling and synergistically kill glioblastoma cells in combination with erlotinib. Int. J. Cancer 137(6): 1446-56 (2015) doi: 10.1002/ijc.29483
- 3. Leliebre-Lara V, Pferschy-Wenzig EM, Widowitz U, Ortmann S, Lima CN, Bauer R. Influence of *Navisporus floccosus* (Higher Basidiomycetes) n-Hexane Extract on Arachidonate Metabolism in Vitro. Int J Med Mushrooms 17(5): 463-9 (2015)
- 4. Liu R, Heiss EH, Sider N, Schinkovitz A, Gröblacher B, Guo D, Bucar F, Bauer R, Dirsch VM, Atanasov AG. Identification and characterization of [6]-shogaol from ginger as inhibitor of vascular smooth muscle cell proliferation. Mol Nutr Food Res. 59(5): 843-52 (2015). doi: 10.1002/mnfr.201400791.
- 5. Pferschy-Wenzig, E.-M., Bauer, R. The relevance of pharmacognosy in pharmacological research on herbal medicinal products Epilepsy Behav. 52: 344-362 (2015) doi: 10.1016/.j.yebeh 2015.05.037.
- Nikles, S., Heuberger, H., Hilsdorf, E., Schmücker, R., Seidenberger, R., Bauer, R. Influence of Processing on the Content of Toxic Carboxyatractyloside and Atractyloside and the Microbiological Status of Xanthium sibiricum Fruits (Cang'erzi) Planta Medica 81(12-13): 1213-1220 (2015) DOI: 10.1055/s-0035-1546207
- 7. Lajter, I., Pan, S.-P., Nikles, S., Ortmann, S., Vasas, A., Csupor-Löffler, B., Forgó, P., Hohmann, J., Bauer, R. Inhibition of COX-2 and NF-kB1 Gene Expression, NO Production, 5-LOX, and COX-1 and COX-2 Enzymes by Extracts and Constituents of *Onopordum acanthium*
 - Planta Medica 81(14): 1270 1276 (2015) DOI: 10.1055/s-0035-1546242
- Hummelsberger, J., Friedl, F., Gaus, W., Kohnen, R., Heuberger, H., Seidenberger, R., Aidelsburger, P., Bauer, R., Heubl, G. Traditionelle chinesische Arzneitherapie bei Patienten mit chronischer Rhinosinusitis - eine Therapie-beobachtung mit Berücksichtigung der Arzneimittelherkunft Forsch Komplementärmed. 22(5): 312-319 (2015) DOI:10.1159/000440658
- 9. Zhao, Q., Assimopoulou, A.N., Klauck, S.M., Damianakos, H., Chinou, I., Kretschmer, N., Rios, J.-L., Papageorgiou, V.P., Bauer, R., Efferth, T. Inhibition of c-MYC with involvement of ERK/JNK/MAPK and AKT pathways as a novel mechanism for shikonin and its derivatives in killing leukemia cells. Oncotarget. 6(36): 38934 38951 (2015) doi: 10.18632/oncotarget.5380
- 10. Zou, H.-Q., Lu, G., Liu, Y., Bauer, R., Tao, O., Gong, J.-T., Zhao, L.-Y., Li, J.-H., Ren, Z.-Y., Yan, Y.-H. Is it possible to rapidly and

TCM Research Center Graz, Herbal Medicine, University of Graz Prof. Rudolf Bauer Published papers on TCM related topics in 2015 and 2016:

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- 9. Zhao, Q., Assimopoulou, A.N., Klauck, S.M., Damianakos, H., Chinou, I., Kretschmer, N., Rios, J.-L., Papageorgiou, V.P., Bauer, R., Efferth, T. Inhibition of c-MYC with involvement of ERK/JNK/MAPK and AKT pathways as a novel mechanism for shikonin and its derivatives in killing leukemia cells. Oncotarget. 6(36): 38934 38951 (2015) doi: 10.18632/oncotarget.5380
- 10. Zou, H.-Q., Lu, G., Liu, Y., Bauer, R., Tao, O., Gong, J.-T., Zhao, L.-Y., Li, J.-H., Ren, Z.-Y., Yan, Y.-H. Is it possible to rapidly and noninvasively identify different plants from Asteraceae using applying electronic nose with multiple mathematical algorithms? Journal of Food and Drug Analysis 23(4): 788–794 (2015) doi:10.1016/j.jfda.2015.07.001
- 11. Atanasov AG, Waltenberger B, Pferschy-Wenzig EM, Linder T, Wawrosch C, Uhrin P, Temml V, Wang L, Schwaiger S, Heiss EH, Rollinger JM, Schuster D, Breuss JM, Bochkov V, Mihovilovic MD, Kopp B, Bauer R, Dirsch VM, Stuppner H. Discovery and resupply of pharmacologically active plant-derived natural products: A review Biotechnol Adv. 33(8): 1582-614 (2015) doi:10.1016/j.biotechadv.2015.08.001
- Wagner H., Bauer R., Melchart D. New Analytical Monographs on TCM Herbal Drugs for Quality Proof. Forsch Komplementmed 23(Suppl 2):16-20 (2016) DOI:10.1159/000444730
- Waltenberger B, Atanasov AG, Heiss EH, Bernhard D, Rollinger JM, Breuss JM, Schuster D, Bauer R, Kopp B, Franz C, Bochkov V, Mihovilovic MD, Dirsch VM, Stuppner H.
 Drugs from nature targeting inflammation (DNTI): a successful Austrian interdisciplinary network project. Monatshefte für Chemie. 147: 479-491 (2016) doi:10.1007/s00706-015-1653-v.
- 14. Leliebre-Lara V, Monzote Fidalgo L, Pferschy-Wenzig EM, Kunert O, Nogueiras Lima C, Bauer R. In Vitro Antileishmanial Activity of Sterols from *Trametes versicolor* (Bres. Rivarden) Molecules 21(8) pii: E1045 (2016) doi: 10.3390/molecules 21081045.



3rd Phase of Sino-Austrian TCM Research Projects

- Overall topic discussed within Austrian partners during a meeting in Vienna on 18. March 2015, and subsequently negotiated with CACMS
- 3. August 2015: Confirmation letter by CACMS to support 3rd Phase
- end of 2015: Application forms and project proposals finalized by Austrian partners and jointly submitted to BMWFW
- 16./17. October 2016: 2nd Phase Final Meeting and Preparatory Meeting for 3rd Phase at CACMS, Beijing



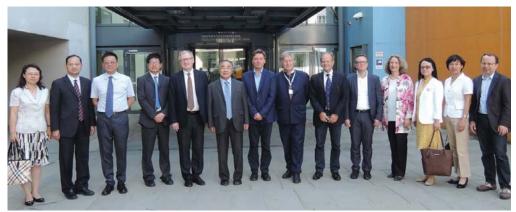






3rd Phase of Sino-Austrian TCM Research Projects

- 25. April 2016: Confirmation letter by the Austrian Federal Ministry of Science, Research and Economy that 3rd Phase projects will be funded
- 26. April 2016: Cooperation Agreement on Sino-Austrian TCM Research on Lifestyle Related Diseases between China Academy of Chinese Medical Sciences and Herbal Medicinal Products Platform Austria
- 5. Juli 2016: Kick-off Meeting in Vienna





BUNDESMINISTERIUM FÜR GESUNDHEIT

EURASIA-PACIFIC

EURASIA-PACIFIC

3rd Phase of Sino-Austrian TCM Research Projects Aims of the project

- to investigate and evaluate TCM plants, formulas and treatments for lifestyle related diseases
- nine subprojects with different aspects of TCM research on lifestyle related diseases
- research on quality assessment, as well as metabolic, immune related, and neuromodulatory effects of acupuncture and Chinese herbs





Anti-inflammatory potential of TCM drugs – new bioactive compounds and quality issues

Theory, Methodology, and Structure of TCM in Respect to Lifestyle Related Diseases

Sino-Austrian TCM Research on Lifestyle-Related Diseases -Innovative Acupuncture Research



Life Style Associated Diseases - the Potential of TCM and MM for the treatment of colorectal cancer

Sino-Austrian TCM research on lifestyle related diseases

Interaction of Chinese herbal medicine with the human intestinal microbiome in order to treat and prevent lifestyle related diseases









herbal medicine therapy of lifestyle related diseases: Myocardial infarction, prostate cancer and depression - from biomedical research to translational medicin

Evaluation of Chinese



Identification of natural products from Paridis rhizoma (Chonglou) as liver X receptor (LXR) and farnesoid X receptor (FXR) ligands









TCM Research Cluster Austria



Sino-Austrian TCM research on lifestyle related diseases

	PP	Principal Investigator (Austria)	PI and Project Partners in China	Topic
	01	UnivProf. Dr. Friedrich Wallner,	Prof. Jingqing Hu, Institute of Basic Theory for Chinese Medicine, CACMS,	Theory, Methodology, and Structure of TCM in Respect
		Sigmund-Freud-University, Vienna	Prof. Shijie Xu , CAMS, Prof. Xiaotong Ma , CAMS, Dr. Song Du , CAMS	to Lifestyle Related Diseases
	02	UnivProf. DDr. Gerhard Litscher, TCM	Peijing RONG, Prof. D.C.M. Ph.D., Institute of Acupuncture and Moxibustion, CACMS, Xinyan	Sino-Austrian TCM Research on Lifestyle-Related
1		Research Center Graz, Medical University of Graz	GAO, Assoc.Prof. M.D. Ph.D., Department of Physiology, Institute of Acupuncture and	Diseases – Innovative Acupuncture Research
a		Offiversity of Graz	Moxibustion, CACMS, Xiaochun YU, Prof. M.D. Ph.D., Institute of Acupuncture and	
_			Moxibustion CACMS, Bing ZHU , Prof. M.D. Ph.D., Institute of Acupuncture and Moxibustion,	
			CACMS; Hua WANG, Prof. M.D. Ph.D., Hubei University of Chinese Medicine, Wuhan,	
			Fengxia LIANG , Prof. Ph.D., Institute of Acupuncture and Moxibustion, Hubei University of	
			Chinese Medicine, Wuhan	
	03	UnivProf. Dr. Rudolf Bauer, Institute	Prof. Dr. TONG Xiaolin, Endocrinology, Guang'anmen Hospital, CACMS,	Interaction of Chinese herbal medicine with the human
		of Pharmaceutical Sciences, TCM	Dr. TIAN Jiaxing, Endocrinology, Guang'anmen Hospital, CACMS,	intestinal microbiome in order to treat and prevent
1		Research Center Graz, University of	Academician Prof. Dr. HUANG Luqi, Institute of Chinese Materia Medica, CACMS,	lifestyle related diseases
		Graz	Dr. Yanqin Bian, Institute of Basic Research in Clinical Medicine, CACMS,	
			Prof. Dr. Xijun WANG, Heilongjiang University of Chinese Medicine, Harbin,	
"	04		Prof. Dr. Yong Liu, Beijing University of Chinese Medicine	Cina Acation TCM annually and life at the soluted
	04	Assoc. UnivProf. Dr. Adelheid H. Brantner, Institute of Pharmaceutical	Prof. Baolin Bian , Institute of Chinese Materia Medica, CACMS	Sino-Austrian TCM research on lifestyle related diseases: Research on the ancient Chinese medicinal
		Sciences / Pharmacognosy, University of		formula Fang Feng Tong Sheng as modern therapeutic
		Graz		against gout
	05	UnivProf. Dr. Verena Dirsch.	Prof Dr. Huimin Gao , Institute of Chinese Material Medica, CACMS	Identification of natural products from Paridis rhizoma
	03	Department of Pharmacognosy,	1 for Dr. Haimin Gao, institute of Chinese Material Medica, CACMS	(Chonglou) as liver X receptor (LXR) and farnesoid X
		University of Vienna		receptor (FXR) ligands
	06	UnivProf. Dr. Christian Huck, O.	Prof. Dr. Bin Yang, Institute of Chinese Materia Medica, CACMS	Novel analytical tools for the quality assessment of
		UnivProf. Dr. Günther Bonn; Institute of	3 ,	Chinese herbs with metabolic, immune related
		Analytical Chemistry and Radio-chemistry,		neuromodulatory effects
		CCB-Center of Chemistry and		, i
		Biomedicine, University of Innsbruck		
	07	Assoc. Prof. Dr. Yan Ma, Division of	Prof. Dr. Jiping Fan, CACMS, Prof. Dr. Dazhuo Shi, Xiyuan Hospital, CACMS,	Evaluation of Chinese herbal medicine therapy of
			Assoc. Prof. Lixia Lou, Beijing Dongzhimen Hospital, Beijing University of Chinese	lifestyle related diseases: Myocardial infarction, prostate
		Department of Pathos- physiology and	Medicine,	cancer and depression - from biomedical research to
		Allergy Research, Center of	Dr. Lu Liu , Beijing Traditional Chinese Medicine Hospital, Beijing Capital Medical University	translational medicine
0.0		Pathophysiology, Infectiology &		
1		Immunology, Vienna General Hospital,		
	- 00	Medical University of Vienna	D. Cl. J. O. J. Ph. COLL. M. J. M. P. OAGNO	Life Chile Associated Diseases the Detection of TOM
	08	Assoc. Prof. Dipl. Ing. Dr. Wolf Dieter Rausch, Institute for Chemistry and	Dr. Shanshan Guo , Institute of Chinese Materia Medica, CACMS,	Life Style Associated Diseases - the Potential of TCM and MM for the treatment of colorectal cancer
		Biochemistry, University of Veterinary	Prof. Cai Peking University Health Center,	and with for the treatment of colorectal cancer
П		Medicine, Vienna	Prof. Weimin Tong , Department of Pathology, Center for Experimental Animal Research,	
V			Institute of Basic Medical Sciences, CACMS and Peking Union Medical College,	
aft			Prof. Baoquan Bao, Inner Mongolian Medical University, Hohot	
ort.	09	UnivProf. Dr. Hermann Stuppner,	Prof. Dr. Jiannong Wang , Xiyuan Hospital, CACMS	Anti-inflammatory potential of TCM drugs – new bioactive compounds and quality issues
		Institute of Pharmacy/ Pharmacognosy,		bloactive compounds and quality issues
		CCB-Center of Chemistry and		
		Biomedicine University of Innsbruck		









5. Juli 2016: University of Graz signed MoU with China Academy of Chinese Medical Sciences





The International Society of Ethnopharmacology organized its 16th congress under the chairmanship of Prof. Rudi Bauer in Yulin, Guangxi Zhuang Autonomous Region, China during May 16-18, 2016





TCM Research Center Graz, Herbal Medicine, University of Graz Prof. Rudolf Bauer







HanseMerkur Center for TCM at the University Medical Center Hamburg Eppendorf

Activities since August 2015

Besides the participation in the Science TCM supplement we were able to publish the verification of the neuroprotective effects of Huang Lian, Rhizoma coptidis in a MPP+/MPTP cell and mouse model.

Furthermore we could finalize the experiments on Chinese herbs for the regulation of brown fat activity and on herbal extracts for cutaneous wound healing. We are now working on the first draft of papers for both projects.

In the acupuncture field, we finished the clinical research on adheseive capsulitis (frozen shoulder) and just recently submitted the paper.

The large ACUDIN and ACUCIN studies have been finished. In the ACUDIN study 3x60 patients with diabetic neuropathy were treated in three groups (needle acupuncture, laser-acupuncture, laser placebo). In the ACUCIN study 60 patients with Chemotherapy induced neuropathy were treated in a cross over design. We are now working on the first drafts of papers for both projects.

An experimental acupuncture study was performed with healthy volunteers using press tack acupuncture for a double blind design. We measured the temporal dynamics of acupuncture induced analgesia against artificial pain. Beside clinical outcomes, Heart rate variability and EEG patterns were measured. We are now working on the first draft of a paper.

汉堡大学附属埃彭多夫医院之汉萨美安中医中心







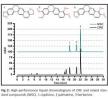


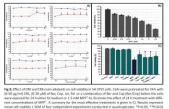
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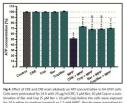
Neuroprotective Effect of Coptis chinensis in MPP+ and MPTP-Induced Parkinson's Disease Models

The American Journal of Chinese Medicine · July 2016

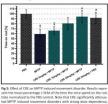
Neuroprotective effect of Coptis chinensis in MPP⁺ induced in-vitro PD model

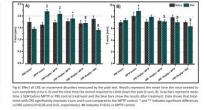


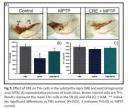




Neuroprotective effect of Coptis chinensis in MPTP induced in-vivo PD model



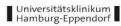




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Publications and ongoing Projects since August 2015

Publications:

- Neuroprotective Effect of Coptis chinensis in MPP+ and MPTP-Induced Parkinson's Disease Models The American Journal of Chinese Medicine · July 2016
- Hypothesis-driven screening of Chinese herbs for compounds that promote neuroprotection. Science 350(6262 Suppl):S69-S71 · November 2015

Ongoing projects:

- Immediate pain relief in adhesive capsulitis by acupuncture using press-tacks. A randomized controlled double-blinded study submitted
- **-ACUDIN**: 3x60 patients with diabetic neuropathy, needle acupuncture, laser-acupuncture, laser placebo. First draft of paper.
- **-ACUCIN** 60 patients with Chemotherapy induced neuropathy. Needle acupuncture. First draft of paper.
- -Chinese herbal extracts and the regulation of brown fat activity. First draft of paper
- -Chinese herbal extracts for cutaneous wound healing. First draft of paper
- **-Temporal dynamics of acupuncture induced analgesia**. Press-Tack Acupuncture, double blind experimental study with artifical pain, EEG. First draft of paper

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Outlook

The 6th GP-TCM RA Annual Meeting will be held in **Kew Gardens** at the beginning of July 2017.

