



CURRICULUM VITAE

HANS RAUSCH

Prof. Hans Rausch,
Biologist and chemist (Uni)



* born on 11.10.1962 in Günzburg, Bavaria, Germany

1982	General university entrance qualification (Dossenberger Gymnasium Günzburg)
1982 – 1983	Conscription (15 months) I. Air Force Training Regiment 4 in Leipheim, Various qualifications and training in troop administrative service with a degree analogous to that of a state-certified administrative employee with a teaching license to train administrative soldiers (staff service)
1983 – 1991	Study at the University of Ulm, Biology, Chemistry and pedagogy Thesis: Isolation and characterization of the antheridiogen receptor in Anemia Phyllitidius L. Final examination: 1st state examination of biology and chemistry Additional studies: Pedagogical studies with state examination in Germany Recognition: Since all study achievements for the diploma in biology were likewise furnished in the context of the study, a certificate of equivalence to the biology diploma was given by the examination committee biology of the University of Ulm. Activities: as a scientific assistant in the practical training of students of biology and medicine from 1985 in the department of biology II Uni Ulm (General Botany) under Prof. Dr. Schraudolf as the person responsible for the scientific plant sciences. Cell cultures of the research department (1986 - 1991) complementary studies: - human biology - Anthropology - Pharmacy - Food Chemistry
1991 – 1994	Dissertation: Dissertation: Topic: Biosynthesis of ellagitannins, completion of laboratory work due to lack of third-party funding at the end of 1994, completion and final examination was omitted due to discrepancies in the interpretation of the research results obtained (the PhD supervisor Prof. Dr. G. G. Gross wanted to have demonstrated a biochemically unfeasible biosynthetic pathway). The raw data obtained and the underlying model systems are still used today as the basis for other research. Occupation: PhD thesis as scientific assistant in the Department of Biology II Uni Ulm (General Botany) under Prof. Dr. G. G. Gross
1994	Foundation of the company Phytochem® Referenzsubstanzen GbRmbH in Ichenhausen and Neu-Ulm together with 2 scientists from the research group Enzymatics and Analysis of secondary plant substances of Prof. Dr. Gross and takeover of the management
1995	Project coordinator for renewable raw materials in the Ulm region, based at the University of Ulm until the project stopped
1996	Appointment as founding member of the FLIGHTS Department of the Bavarian State Ministry of Education, Culture, Science and the Arts for the development of new state aid for business start-ups from Bavarian universities in the high-tech sector
1997 – 2015	regular appointment as expert for the bayer. State Ministry of Science and Art in the support program „FLÜGGE

1998	Restructuring and takeover of partner shares in Hydrodrill® Bohrgesellschaft based in Offingen, a company specialized in the use of renewable energies for heating and service water production in residential and industrial buildings via heat pump technology including the specific drilling technology and heat pump technology as well as the associated heating construction.
1998	Foundation of the biotechnology company Sensotest® Biologische Testsysteme in Ulm as a research laboratory for the development of biological sensor technologies on the basis of immunological reactions
2000	Transfer of Sensotest® biological test systems to Cibitest GmbH und Co KG. Commitment as partner responsible for research until its dissolution in 2014
2009	Assumption of a teaching position as a guest lecturer at the University of Applied Science (NTA) Isny/Allgäu in the field of food chemistry, food technology and analytics
2009	Member and deputy chairman of the German DIN standardization committee for the international standardization of traditional Asian medicine.
2010	Extension of the lectureship as guest lecturer at the University of Applied Science (NTA) Isny also for the field of pharmaceutical technology and analytics
2010	Appointment as German delegation member for international ISO negotiations in the ISO procedures of the Technical Committee TC 249 Traditional „Asian medicine“ (focus „Trad. Chin. Medicine“, „Oriental Medicine“ in Korea and the Trad. „Campo Medicine“ in Japan).
2010	Appointment as Convenor of Working Group 2 of ISO TC 249 „Quality and Safety“ of TCM products for worldwide harmonized quality control in global trade.
2013	Appointment as an officially recognized expert according to §65 of the German Drug Law (AMG) with Europe-wide recognition as a competent person for the release of medicinal products
2015 – today	experts for the bavarian State Ministry of Economic Affairs, Technology and Energy in the state support program FLIGHTS for entrepreneurship from Bavarian universities
2015	Foundation of Plant4Med GmbH in Neu-Ulm for the development of novel products in the field of functional cosmetics and dietary supplements as co-partner and head of research and development
2018	Partner and Quality Control Manager of ConPhyMed Pharmaceuticals GmbH in Hamburg
2018	Visiting Professor of the Jiangxi TCM University in NanChang China
2019	Foundation of Naturwerk GmbH&CoKG Neu-Ulm, a company for high-quality products based on natural substances
2019	Foundation of BLP Consulting GmbH Neu-Ulm as service provider for pharmaceuticals as project partner
2019	First implementation of Compactats into the German health system

Other activities

- guest speaker at various national and international events and congresses
- Lecturer for advanced training in the field of „Quality and Safety“ of pharmaceuticals
- Supervision of well over 40 diploma and later bachelor and master theses as well as doctoral theses in companies with: the Universities of Isny, Reutlingen, Aalen, the Technical University (TU) Munich, the University of Ulm and the Ludwig Maximilian University (LMU) Munich
- Scientific cooperation with various researchers worldwide, including UMG University Medicine Göttingen, Hanse Merkur Center Hamburg, LMU Munich, University of Ulm, LFL Weihenstephan, as well as chairs and companies in China, Japan and Korea

Memberships

- Member companies of the biotechnology region Ulm
- Member of the Biotechnology Cluster Munich and BIO M AG
- Membership in numerous organizations and associations, including the International Society for Medicinal Plant Research (GA)
- Member of various societies for Asian plant medicine

Publications

Rausch, H., Gross, G.G.

Preparation of [¹⁴C]-labelled 1,2,3,4,6 Pentagalloyl- β -D-glucose and related gallotannins
Z.Naturforsch.(Z) 51 (7-8) 473-476 (1996 (Jul/Aug))

Intoxication, H.

Modern analysis of phytopharmaceuticals for quality control Need for reference substances
using the example of Garlic Ges.Biomed.Tech. Forum Volume No.8 47-48 (1996)

Denzel K., Hofmann A., Keller G. and Rausch H.

Determination of Celandine alkaloids by HPTLC comparison with HPLC CAMAG Publications
CBS-80 9-11 1998

Wagner H., Peigen X., Rausch H., Bauer M.

Monographs for Drugs of Traditional Chinese Medicine
Wühr Verlag 2010

Gasser, Oettmeier and Rausch

Granulates of the Trad. Chin.
Medicine Pharm Europe 2012

Weimer, Frank, Cameron, Kuchta and Rausch

Development and optimization of a phytopharmaceutical from the Japanese campotradition in
the field of neuronal disorders
ZPT 2016 37 Suppl.1 S 33f

Frank, Weimer, Cameron, Kuchta and Rausch

Development and optimization of a phytopharmaceutical from the Japanese campaign tradition
in the gastrointestinal tract
ZPT 2016 37 Suppl.1 S 42

Frank L, Weimer K, Cameron S, Kuchta K, Rausch H (2016)

Development and optimization of a phytotherapeutic preparation based on traditional Japanese
Kampo medicine against gastrointestinal disorders. *Planta Med.* 81(S 01): S1-S381

Weimer K, Frank L, Cameron S, Kuchta K, Rausch H (2016)

Development and optimization of a phytotherapeutic preparation based on traditional Japanese
Kampo medicine against neuronal disorders. *Planta Med.* 81(S 01): S1-S381

Frank L, Weimer K, Cameron S, Kuchta K, Rausch H (2016)

Development and optimization of a novel phytotherapeutic preparation for the treatment of
gastrointestinal disorders on the basis of traditional Japanese Kampo medicine. *Reviews of
clinical pharmacology and drug therapy* 14 (supplement): 33

Weimer K, Frank L, Cameron S, Kuchta K, Rausch H (2016)

Development and optimization of a novel phytotherapeutic preparation for the treatment of
neuronal disorders on the basis of traditional Japanese Kampo medicine. *Reviews of clinical
pharmacology and drug therapy* 14 (supplement): 33-34

Cameron, S; Kuchta, K; Frank, L; Weimer, K; Eiffert, H; Ellenrieder, V; Watanabe, K; Rausch, H
*Japanische Phytotherapie (Kampo) in der modernen Medizin Zeitschrift für Phytotherapie; Aktuelle
Ausgabe S 01, 2017*

Publications

Kuchta K, Rausch H

Traditionelle Japanische Medizin – Kampo (Teil 5) Regulatorische Rahmenbedingungen für Arzneimittel der Kampo-Medizin sowie verwandte phytotherapeutische Präparate in Japan. Z Phytother 38 24-26 2017

Cameron S, Kuchta K, Frank L, Weimer K, Eiffert H, Ellenrieder V, Watanabe K, Rausch H (2017) Japanische Phytotherapie (Kampo) in der modernen Medizin. Z Phytother 38(S01): S1-S44

Kuchta K, Nguyen HT, Ota T, Rausch H, Rauwald HW, Morita K, Shoyama Y (2017)

On the in vitro Anti-Dengue Virus Activity of the Oleoresin Labdanum of *Cistus creticus*. PMIO 4(S01): S1-S202

Cameron, S; Kuchta, K; Napp, J; Weimer, K; Frank, L; Rausch, H; Ellenrieder, V

Effekte von standardisierten Arzneipflanzenextrakten der japanischen Kampo-Medizin auf humane und murine Pankreaskarzinomzelllinien Zeitschrift für Phytotherapie; Aktuelle Ausgabe S 01, 2019

Kuchta, K; Weimer, K; Frank, L; Rausch, H; Ellenrieder, V; Cameron, S

Standardized herbal extracts of Japanese Kampo medicine and their effects on human and murine pancreatic cancer cells *Planta Medica*; Aktuelle Ausgabe 18, 2019

Cameron, S; Napp, J; Weimer, K; Frank, L; Rausch, H; Ellenrieder, V

Effekte von standardisierten Arzneipflanzenextrakten der japanischen Kampo-Medizin auf humane und murine Pankreaskarzinomzelllinien Zeitschrift für Gastroenterologie; Aktuelle Ausgabe 09, 2019

Kuchta, K; Waser, W; Cameron, S; Rausch, H: Novel herbal veterinary narcotics for aquacultures of *Clarias gariepinus* *Planta Medica*; Aktuelle Ausgabe 18, 2019

Kuchta K, Tung NH, Ohta T, Uto T, Raekiansyah M, Grötzinger K, Rausch H, Shoyama Y, Rauwald HW, Morita K (2019)

The old pharmaceutical oleoresin labdanum of *Cistus creticus* L. exerts pronounced in vitro anti-dengue virus activity. . J Ethnopharmacol. 257

Kuchta K, Cameron S, Bilia A, Rausch H, Lee M, Cai S, Shoyama Y.

Quali piante medicinali dell'Asia Orientale possono ridurre le infezioni virali? *Natural 1*; Maggio 2020:12-17