



UNIVERSIDAD DE CONCEPCION
Dirección de Relaciones Institucionales e Internacionales



Concepción (Chile), August 5th, 2011.

Dr. Ute Kopka
International Office
Technische Universität Braunschweig
Bültrnweg 74/75
38106 Braunschweig
Germany

Dear Dr. Kopka,

please find attached one original of the MOU between our Universities duly signed by the corresponding authorities.

We would much appreciate your sending this document to Prof. Dr. Martin Korte, Vice-President for Strategic Development TU Braunschweig.

We have kept one original for our registration and the authorities involved in the signature of this Memorandum.

Cordially yours,




IVAN E. ARAYA GOMEZ, Ph.D.
Director
Office for Institutional and International Affairs

IAG/MZA
Encl : the above mentioned
w.c.: Vicerrector for Research and Development
Dean Faculty of Pharmacy
Dr. Dietrich Von Baer
Dr. Hansen-Rojas
File

MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

UNIVERSIDAD DE CONCEPCIÓN

CONCEPCIÓN, CHILE

AND

**TECHNISCHE UNIVERSITÄT CAROLO-WILHELMINA ZU BRAUNSCHWEIG
(TU Braunschweig)
BRAUNSCHWEIG, GERMANY**

The Technische Universität Braunschweig (TU Braunschweig) and the Universidad de Concepción agree to implement this memorandum of understanding.

This agreement is based on the principle of reciprocity and expresses the interest of both parties in exchanging scholars, students, academic information and materials in the belief that the research and educational process at both the institutions will be enhanced and that mutual understanding between their respective scholars and students will be increased by the establishment of such exchange programs.

1. The universities agree to encourage the development of the following exchange programs based on their respective academic and educational needs:
 - Exchange of faculty
 - Exchange of students (undergraduate and/or graduate)
 - Joint supervision of M.S. and Ph.D. students
 - The Development of curricula
 - Exchange of academic information and materials
 - Exchange of periodicals and other publications
 - Organization of joint research programs
 - Organization of joint conferences
 - Organization of other academic exchanges agreeable to both universities

2. The parties recognize that the implementation of any exchange program will depend upon the academic interests and expertise of individual faculty members and upon the availability of financial resources. Accordingly, the implementation of each exchange program based on this agreement shall be separately negotiated and determined by both universities.

3. This agreement is not intended to be a legally binding document. It is meant to describe the nature and to suggest the guidelines of the cooperation described above. Nothing therefore shall diminish the full autonomy of either institution, nor will any constraints be imposed by either upon the other in carrying out the agreement.
4. The agreement shall become effective on the day representatives of both universities affix their signatures and seals, will be in force for a period of 5 years, and is subject to revision or modification by mutual agreement. It is also understood that either institution may terminate the agreement at any time, although it is assumed that such action would only be taken after mutual consultation in order to avoid any possible inconvenience to the other institution.



Sergio Lavanchy Merino
Rector
Universidad de Concepción
Concepción, Chile

03 AGO. 2011

Date



Prof. Dr. Martin Korte
Vice-President for Strategic
Development
TU Braunschweig
Braunschweig, Germany

19. Juli 2011

Date

Scientific Cooperation TU Braunschweig – Universidad de Concepción

Scientific Partners:

Institut für Lebensmittelchemie, Prof. Dr. Peter Winterhalter – Managing Director

Departamento de Análisis Instrumental, Prof. Dr. Dietrich von Baer - Director

Start: 2002

Scientific Cooperation Projects (Ale-Chile Program DAAD/CONICYT):

- 1) Authenticity of red wines and red grape juice: 2004 – 2006
- 2) Obtention of oligomeric derivatives of resveratrol of woody residues of wine grapes: 2008 – 2011

Joint Research Projects

- 1) Evaluation of the potential of grape canes as a source of high value stilbenoids in different varieties of *Vitis vinifera* cultivated in Chile by HPLC-DAD-ESI-MS/MS, Concurso Regular FONDECYT 2011, March 2011 – February 2014
- 2) Obtention of extracts of high commercial value rich in stilbenes and/or procyanidins for integral utilization of residues from wine making industry
FONDEF, Concurso 2011, January 2012 – December 2014

Joint Scientific Publications

“Polyphenols and Antioxidant Activity of Calafate (*Berberis microphylla*) Fruits and Other Native Berries from Southern Chile”

Antonieta Ruiz, Isidro Hermosin-Gutierrez, Claudia Mardones, Carola Vergara, Erika Herlitz, Mario Vega, Carolin Dorau, Peter Winterhalter, and Dietrich von Baer

Journal of Agricultural and Food Chemistry 58, 6081-6089 (2010)

“Relevance of chromatographic efficiency in varietal authenticity verification of red wines based on their anthocyanin profiles: Interference of pyranoanthocyanins formed during wine ageing”

D. von Baer, M. Rentzsch, M.A. Hitschfeld, C. Mardones, C. Vergara and P. Winterhalter
Anal. Chim. Acta, 621, 52–56 (2008)

“Vitisin a content in Chilean wines from *Vitis vinifera* Cv. Cabernet Sauvignon and contribution to the color of aged red wines”

Schwarz, P. Quast, D. von Baer and P. Winterhalter,
J. Agric. Food Chem. 51, 6261-6267 (2003)

Scientific Exchange and Research Stays:

In Braunschweig:

Dr. Dietrich von Baer, Ximena Moncada, Antonieta Ruiz (PhD students), Dra. Claudia Mardones (planned for October 2011)

In Concepción:

Prof. Peter Winterhalter; former PhD students: Michael Schwarz, Michael Rentzsch; Andrea Wilkens; PhD student: Peter Fabian; Diploma students: Peter Quast, Jutta Mehnert, Carolin Dorau, Anika Damm