

CURRICULUM VITAE ROY VAN BRUMMELEN

Address: Biomox Pharmaceuticals (Pty) Ltd
429 Dekgras Road
Silvertondale
Pretoria

PO Box 26033
Gezina
0031

Surname: van Brummelen
First names: Roy
Identity number: 651205 5031 007
Sex: Male
Marital status: Married
Nationality: South African
Home language: Afrikaans
Other languages: English (speak, read and write), German (speak and read)

Tel. no: (012) 804 8068
Fax no: (012) 804 8069
Cell no: 082 552 9450

1. ACADEMIC QUALIFICATIONS

Completed school education in 1983 at Oos Moot High School in Pretoria, matriculating with four distinctions. Studying pharmacy at the University of Pretoria and successfully completing the degree BPharm in 1987. Completing the pharmacy internship the next year, 1988, at Arcadia Park Pharmacy and registering as a pharmacist; (Reg. No. 10699), with The South African Pharmacy Council.

Completing the degree MSc (Chemical Pathology), with the subject "Glyoxalase 2, Enzymatic Defect Associated with Porphyria Variegata" at the same university in 1990.

In 1992 qualifying as medical scientist (Reg. No. 487), at the South African Medical and Dental Council.

Completing the degree PhD (Medical Science), in 1993, with the subject "The Glyoxalase Cycle and Early Porphyrin Precursors".

Describing a new biochemical cycle for the first time and publishing this data internationally.

Enrolling for a second doctor's degree (Doctor Technologiae), in the department of Biological Sciences, Technikon Pretoria (currently Tshwane University of Technology), at the beginning of 2002, and achieving this second doctorate in early 2006.

Since 2003 appointed as Extraordinary Professor in the Faculty Health Sciences, Tshwane University of Technology.

2. RESEARCH

2.1 Study Guidance

Students

Acting as moderator for the Department of Biological Sciences on more than one of their examination papers.

Advanced students

Acting as promoter

In 1996, acting as promoter and joint supervisor for a successful Master's Degree student at Technikon Pretoria, now Tshwane University of Technology (TUT).

Student	Year	Institution	Degree
S Myburg	1996	Technikon Pretoria	Masters

Acting as Co-promotor:

In 2000, appointed as co-promoter for three master degree students at the Department of Pharmacology at the University of Pretoria. All three of these students passing with distinction.

Student	Year	Institution	Degree
AC Retief	2001	University of Pretoria	Masters
A Marais	2001	University of Pretoria	Masters
DT Ntloedibe	2001	University of Pretoria	Masters

Registering as tutor with the South African Pharmacy Council for the training of pharmacist assistants and interns. Assisting the Technikon Pretoria School of Pharmacy with the internship/practical training of several pharmacist students.

2.2 Publications

- **Contract research products**

First author and co-author of scientific publications, both nationally and internationally.

Author: R van Brummelen and S. Bissbort

Title: Chicken eggshell porphyrins and the Glyoxalase pathway: Its' possible physiological role

Publication: Comp. Biochem. Physiol. Vol. 104B, No. 4, pp. 657-662, 1993

Author: R van Brummelen, S. Myburgh and S.H. Bissbort

Title: The Influence of Porphyrogenic Drugs on the Glyoxalase Enzymes

Publication: Research Communications in Chemical Pathology and Pharmacology. Vol. 82, No. 3, December 1993

Author: R van Brummelen

Title: Biochemistry and faith

Publication: SAMJ Letters Vol. 83, March 1993

Author: R van Brummelen and J. Lagendijk

Title: The role of L-Methionine in health and disease

Publication: S.A. Pharmaceutical Journal. Vol. 63, No. 4, April 1996

Author: R van Brummelen, D du Toit

Title: L-Methionine as Immune Supportive Supplement – A Clinical Evaluation.

Publication: Submitted to the journal – Amino Acids

2.3 Papers read

Presenting papers on work done:

The Annual Congress of the Federation of South African Societies of Pathology in 1990 and 1991

The Tenth International Conference on AIDS, Yokohama, Japan, in 1994

The Twelfth World AIDS Conference, Geneva, Switzerland in 1998.

Also presenting a paper at the 7th International Congress on Amino Acids and Proteins, Vienna, Austria in 2001.

2.4 Artefacts / patents

In 1994 successfully completing a multi-centre prospective clinical trial testing a unique new, internationally patented formulation in HIV and AIDS patients. Involved in successfully lodging an international patent in this regard.

Patent application in 2005 for a herbal dental extract, in collaboration with the University of Pretoria.

Patent application in 2005 for Grape seed extract extraction method, in collaboration with the University of Pretoria.

Also involved in the registration of several trademarks.

2.5 Other:

- Securing in 1998 an exclusive agreement with the University of Pretoria, Department of Pharmacology, for joint research and the development of laboratory techniques on medicinal herbal plants and natural products.
- Assisting companies i.e. Bioharmony cc as medical advisor with the compiling of research protocols.
- In 2000 securing a contract with a multi-national company Merck (Pty) Ltd., regarding the development of a nutritional supplement range for them. Doing contract research for Merck (Pty) Ltd in co-operation with Technikon Pretoria; Sport Science Institute and Centre for Human and Animal Molecular Health.
- In 2002, assisting Merck (Pty) Ltd., with the formulation of a new mineral supplement, testing this in a clinical trial.
- In 2005, assisting Merck (Pty) Ltd., with the formulation of a new anti-oxidant formula.
- Initiating a research development project with the Department Mechanical Engineering, Technikon Pretoria, for the production locally of improved pharmaceutical equipment i.e. capsule counters and high speed mixers.
- Initiating the investigation into the a school in Complementary Medicine at Technikon Pretoria, with the involvement of industry.

3. EXAMINATION OF POST GRADUATE STUDENTS

Acting as external examiner:

Student	Year	Institution	Degree
A Peckham	1995	Technikon Natal	Masters
IMS Couchman	2000	Technikon Natal	Masters
R Bruni	2000	Technikon Natal	Masters
PP Phatedi	2002	Tshwane University of Technology	Masters
SCK Motaung	2002	Tshwane University of Technology	Masters
EC Myburgh	2003	Tshwane University of Technology	Masters
H Chikoto	2004	University of Pretoria	Masters
SJ Beukes	2004	University of Pretoria	Masters
MM Moraba	2004	Tshwane University of Technology	Doctorate

4. AWARDS RECEIVED

Bursaries

Receiving two post-graduate bursaries from Noristan.

Research grants

Negotiating two loan agreements with the Industrial Development Corporation (IDC). The first to the value of R540 000.00 and the second for R5,6m to do research on a new HIV drug.

Involved in two Innovation Fund applications, still pending.

Involved as industry partner for several years in succession with the Department of Pharmacology, University of Pretoria in a successful THRIP project, also involving two students appointed in the company Biomox Pharmaceuticals as part of the Tiptop project.

5. LECTURING ABILITY

5.1 Transfer of knowledge

Acting as speaker at the ME Research Foundation of S.A.

Invited by the Pharmaceutical Society of South Africa to give a lecture on amino acids to pharmacists.

Involved with continued education, giving several lectures to the health profession on amino acids, at the invitation of different companies.

Chairman and co-founder of BHM Continued Education; a company involved with the continued education of doctors, pharmacists and

other health care professionals, presenting a one-year correspondence course in Natural Health, accredited by TUT, as a certificate course, as well as by the South African Medical and Dental Council. In this regard lecturing countrywide on several topics also co-ordinating the lectures of the other speakers; experts from different universities and industry.

Invited as guest speaker on “Quality of Life” at the Technikon’s Research and Development workshop on this topic.

Giving a lecture on immune stimulants and its’ effect on HIV / AIDS at the University in Zambia.

Lecturing for final year Dietary students at University of Pretoria, on the formulation of nutritional supplements.

Lecturing for Pharmacy students at Tshwane University of Technology, on the formulation of nutritional supplements.

6. SUBJECT/INDUSTRY/COMMUNITY

6.1 Membership

- **Associations and participation**

Member of the Pharmaceutical Society of South Africa, the Academy of Pharmaceutical Sciences and the Health Products Association.

Nominated to serve on the Pretoria Technikon Academic Standards Committee in 2000. Also nominated as Industry Representative onto the advisory committee of two different institutes of the Technikon Pretoria; the Sport Science Institute and the Centre for Human and Animal Molecular Health. Initiating several research projects and clinical trials in these institutes.

Acting in an advisory capacity at several meetings for the Department of Biological Sciences.

6.2 Peers

Representing industry on the TUT Committee for the appointment of new professors.

Used by the South African National Research Foundation (NRF) as evaluator of projects and other researches.

Being used by TUT for evaluation of B + M degree courses.

Acted as referee by international organisations e.g. Phyto Trade Africa, in the complementary field.

Also lecturing on the topic of Kingdom business to business people.

6.3 Broad community

- Developmental projects: Initiating a missionary action at local church level, raising funds for missionary work internationally.
- Outside work activity: Extensively involved in local church and missionary activities. Acting in this regard in several leadership positions i.e. acting youth leader, head deacon, secretary and assistant treasurer of the local church. Coordinator of the South African Christian Business Men and Women's Forum.

6.4 Recognition

In 1999 nominated onto several sub-committees of the "Broad based working group" on complimentary medicine and assisting industry with guidelines and training in Good Manufacturing Procedures, serving as Chairman of the Nutritional Review Committee for more than a year.

7. ADMINISTRATION AND MANAGEMENT

Managerial role – in 1993 co-founder of the pharmaceutical company; Biomox Pharmaceuticals (Pty) Ltd (Reg. No. 93/00773/07). In the same year resigned from the post at the University of Pretoria; Department of Chemical Pathology, to take up the post of Managing Director of this newly founded company, doing research and development of new products, specialising in vitamin, mineral and amino acid combinations, addressing specific problems in the body on enzymatic level, by supplying the necessary biochemical substrates and co-factors to alleviate the problem. In 1994 successfully completing a multi-centre prospective clinical trial testing a unique new, internationally patented formulation in HIV and AIDS patients.

Establishing a production facility for the company. In 1995 developing and launching this new internationally patented nutritional supplement, as well as extending this into a product range of 12 nutritional supplements. Heading research, product development, production, distribution, marketing and registration functions in the company, together with general management and financial control, so gaining valuable experience in these fields. Expanding the company's production capability to enable the company to act as third party producer of several products for other companies, also assisting them with development, formulation and registration. At this stage producing

a product range of over 350 products for more than 65 different companies.

Chairman of BHM Continued Education cc; a joint action with Tshwane University of Technology, training pharmacists and health care professionals in nutritional and complementary medicine. Course accredited with the Health Professions Council, which has subsequently been sold.

Co-founder and chairman of a consulting company van Brummelen Consultants.

Co-founder and director of a biotechnology company; Bio Extracts (Pty) Ltd., a joint action between Biomox Pharmaceuticals and the University of Pretoria, developing plant extracts and possible new herbal products.

Co-founder and director of a pharmaceutical manufacturing training centre – BioPharmac (Pty) Ltd., working in collaboration with TUT.

Co-founder and director of several other companies in different fields, e.g. Cultural and Language Orientation Centre (Pty) Ltd., Jobs4All (Pty) Ltd., Wash 2 Wear (Pty) Ltd., etc.

One of the co-founders and member of The Association for African Medicinal Plants Standards (AAMPS).