

RESUMÉ

Prof Florian Bauer (*Professor in Wine Biotechnology*)

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Vision statement: My aims are

- to animate and lead an internationally competitive and recognized research team in yeast molecular biology and wine yeast biotechnology;
- to foster a culture of transparency and academic excellence based on critical thinking and open scientific debate in the department and the broader academic environment;
- to contribute to the management of the IWBT/DVO and the continuous implementation of change through new initiatives;
- to enjoy doing whatever it is that may come my way (I try...).



PERSONAL INFORMATION

46 years

Married with two children

QUALIFICATIONS

- BSc (Microbiology and Genetics), Stellenbosch University, 1996.
- BSc (Biochemistry and Cellular Biology), University of Bordeaux II, France, 1986.
- HonsBSc (Biochemistry and Cellular Biology), University of Bordeaux II, France, 1987.
- MSc (Molecular Yeast Genetics) (DEA), University of Bordeaux II, France, 1988.
- PhD (Molecular Yeast Genetics), University of Bordeaux II, France, 1992. "Stationary phase entry in *Saccharomyces cerevisiae*"

NRF RATING

- C1, 2003.

WORKING EXPERIENCE

Academic experience: ca. 14 years

- Researcher, Department of Microbiology, Stellenbosch University, 1993 – 1997.
- Senior Researcher, Institute for Wine Biotechnology (IWBT), SU, 1998 – 2002.
- Associate Professor, IWBT, SU, 2003 – Nov 2006.
- Professor, IWBT, SU, since Dec 2006.

TEACHING

Undergraduate teaching courses

- Applied wine chemistry and wine analysis (Oeno 444) – 4th year AgriScience
- Biotechnology of prokaryotes and yeast (BTG 314) – 3rd year Natural Sciences

Postgraduate teaching courses

- Genetic characteristics and improvement of wine yeasts.

Postgraduate supervision

- Graduates: **15**
 - Supervisor for D-degrees 2
 - Co-supervisor for D-degrees 3
 - Supervisor for M-degrees 7
 - Co-supervisor for M-degrees 3
- Registered students: **13**
 - Supervisor for D-students 11
 - Co-supervisor for D-students 0
 - Supervisor for M-students 1
 - Co-supervisor for M-students 1

RESEARCH

Research programme

- Established research programme with the focus on gene regulation and signal transduction, and with 11 running projects for the wine industry.
- Part of Wine Science Research Niche Area of the NRF.

Research collaborators

- Catholic University of Leuven, Belgium (Prof Thevelein). Frequent student exchanges.
- Swiss Wine Research Institute, Switzerland (Prof Gaffner). Co-supervisor of two PhD students.
- Lallemand SA, Canada. Breeding programs.
- University of Toronto, Canada (Prof Wolfaardt). Project: Assessment of vertical and horizontal gene transfer. Co-supervisor of PhD student.
- Institute of Industrial Fermentation, Madrid, Spain (Dr Gonzales). Project on cell wall mannoproteins (application for funding of bilateral research agreement pending).

Research grants

- Leader of the IWBT NRF Focus Area program of the IWBT entitled "Functional Wine Omics".
- Program leader of the Wine yeast biotechnology program, which includes ten individual projects.
- THRIP program leader for all IWBT projects.
- Project leader of SunBio, funded through a grant of Cape Biotech.
- Associate leader of the NRF Wine Science Research Niche Area.
- Various international bi-lateral agreements (Spain-SA; Flanders-SA).
- Lallemand and Sofralab yeast breeding programs.

Research outputs (since 1993)

- Papers in refereed scientific journals29
- Chapters in books3
- Popular scientific articles5
- Published conference proceedings6
- Abstracts of papers at conferences98
 - international 60
 - national 38

SERVICES

Managerial services for DVO and IWBT management teams

- Member, DVO and IWBT Management Committees, since 2004.
- Manager of Chemistry-Analytical laboratory.
- Project leader of Gene regulation and signal transduction research group.
- Supervisor for 5 technical staff members.

Membership of SU's committees/boards

- Member, Faculty Board for AgriSciences, since 2000.
- Member, Senate, since 2006.

Membership of professional societies and committees, as well as professional services rendered

International

- Member, Editorial Board, *Applied and Environmental Microbiology*, since 2004.
- Regular reviewer for the following international journals, since 2006: *American Journal for Enology and Viticulture*, *Applied and Environmental Microbiology*, *Genetics*, *Journal of Agricultural and Food Chemistry*, *Journal of Applied and Industrial Microbiology*, *Molecular Genetics and Genomics*, *Molecular Microbiology*, *Yeast*, *FEMS Yeast Research*.
- Expert on the Technological Committee on Microbiology of the "Office Internationale de la Vigne et du Vin" (OIV) in Paris.
- Co-chair of workshop on Wine-omics, Vancouver, Canada, 2005.
- Organiser of workshop on "Microarrays". South African/Flemish Workshop, Stellenbosch, 2002.
- Co-organiser and chairman of workshops at the International Conference for Yeast Genetics and Molecular Biology:
 - (i) Dimorphism and Cellular Differentiation, Stellenbosch, 1995.
 - (ii) Biotechnology and the Industrial application of yeast, Prague, 2001.
- Member of the Organizing Committee for the Eighteenth International Congress on Yeast Genetics and Molecular Biology, Stellenbosch, 1995.
- Member of the American Society of Genetics, since 2001.

National

- Member, Resource Committee of the Cape Biotechnology Initiative (CBI), 2003.
- Member, Strategic Steering Committee CapeBiotech, 2004.
- Member and Chair, Winetech Biotechnology Programme Committee, since 2004.
- Chair, Experimental Biology Group (the largest regional association of biological researchers in SA, approx. 350 members), 1999.
- Vice-chair, Experimental Biology Group, 2000.
- Panel member, Podium discussion on "Genetically Modified Organisms" at the BioY2K Combined Millennium Meeting in Grahamstown, 2000.
- Member, Organising committee, 18th Congress of South African Society of Genetics, Stellenbosch, 2004.
- Chair, Organising committee of 1st Symposium on Wine Chemistry, Stellenbosch, 2004.
- Organiser, EBG Spring Symposium on "Genetically Modified Organisms", Stellenbosch, 1999.
- Organiser, EBG Spring Symposium on "Human Evolution", Cape Town, 2000.
- Co-organiser, workshops on Chemometrics (Prof K Esbensen, 2005, 2006; Prof T. Naes, 2006).
- Representation of Stellenbosch University in various initiatives, 2001 - 2004:
 - (i) Cape Biotechnology Initiative
 - (ii) MRC Bioinformatics Call for Proposal
 - (iii) National Bioinformatics Network

- Expert, South African government-initiated Foresight project for South Africa in the field of Agriculture and Agro-processing, 1998 - 1999.
- Expert, South African government-initiated Foresight project for South Africa in the field of medical research, 1999.
- Reviewer for project proposals for National Research Foundation, continuous.
- External examiner, doctoral dissertations and master's theses.

Invited lectures at research seminars

- 27 (13 international; 18 national)

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