

## Laurent RIVIER

PhD, Chemist and Analytical Toxicologist

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Date of Birth:

December 20<sup>th</sup>, 1943

Family Status:

married with Elisabeth Templeton STRONG, two adult children

Nationality:

Swiss

Sports:

Ski mountaineering, Sailing, Trekking

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**PhD, EUROTOX registered Toxicologist, top level expert and teacher, former Director of the Swiss Laboratory for Doping Analysis, scientific independent consultant.  
Member at the Swiss Chamber of Technical and Scientific Forensic Experts.  
Member of the Swiss Anti-doping Disciplinary Commission.**

### PROFESSIONEL EXPERIENCE:

#### - scientific

- 2002 - Independent scientific Consultant in Forensic Toxicology and Sport Doping
- 1999 - 2009 Technical expert of the Swiss Accreditation Service (ISO 17025)  
*Member of the Legal Medicine Experts' Group, I have participated to the elaboration of the Forensic Toxicology Accreditation Guidelines*
- 1989 - 2001 Initiator and Director of the Swiss Laboratory for Doping Analysis, Lausanne, Switzerland (Since 1997, Scientific Director).  
*Head of this analytical laboratory unique in Switzerland, I have been in charge of its scientific and administrative organisation. It staff is composed by 5 scientists, 4 laboratory technicians and 2 administrative and secretary people. Its annual budget raised up to 800'000.—Fr in 2001, the research part not included. We obtained the International Olympic Committee accreditation in 1991 and renewed it each following year. We also get the ISO 17025 accreditation in 2000. In 2001, the laboratory was analysing more than 4500 samples for doping in sport.*
- 1987 - 2008 Teacher (Privat-docent, Prof II) and supervisor for several PhD theses and diploma at the Universities of Lausanne and of Tromsø (Norway).  
*The topics of my courses was the detection of trace organic molecules in biological matrixes and ethnotoxicology. Examples were taken from the fields of forensic toxicology, the detection of doping agents in sport and my personal experience during field trips in ethnopharmacology. PhD and diploma research works were focused mainly on the development of new analytical chemistry tools applied to specific practical problems taken from real cases.*
- 1984 - 2001 Head of the Laboratory of Analytical Toxicology at the University Institute of Legal Medicine, Lausanne (Since 1997, Scientific Director).  
*When I took over the managing responsibility of this newly created laboratory in 1984, I was the single scientist working together with 2 laboratory technicians. In 2002, 4 scientists and 4 technicians were involved with a major improvement and increased in sophisticated analytical equipment. I*

*have been able to implement several highly sophisticated analytical tools like GC-MS, LC-MS capillary electrophoresis and isotope ratio MS instruments, for example.*

- 1978 – 1984 Research associate for several scientific research projects of the Swiss National Foundation for Scientific Research.
- 1996 – 1998 Coordinator of the Swiss R&D project on Driving under the influence of drugs sponsored by the Swiss Road Safety Foundation
- 1998 – 2000 Member of the Human Growth Hormone Research Group in Sport Doping sponsored by IOC and European Union.  
*After setting-up of a new analytical laboratory dedicated for trace organic analyses in biological matrices, I was involved on a full-time basis in growth hormone homeostasis in plant research for more than 6 years. In 1996, I was administrating a research grant of more than CHF 800'000.— to be dedicated on Drug and Driving on several individual research projects to be performed on the several university institutes of legal medicine in Switzerland with a few collaborations abroad. Finally, I was involved in the collaborative research study called GH-2000 aiming at setting up a laboratory procedure for the detection of the abuse of hGH in sport (coordinator: Prof Sönksen, London, U.K.)*

#### - editing

- 1979 – 2000 Founder and Chief Editor of the International scientific review entitled « Journal of Ethnopharmacology », produced by Elsevier Science Publishers in Amsterdam, The Netherlands.  
*With my colleague Jan Bruhn from Stockholm, we started this new scientific journal that is now in its volume 79 and was chosen as the official journal of the International Society of Ethnopharmacology.*
- 1999 - 2003 Member of the TIAFT-net on-line reviews scientific panel  
*Created in 1999, this good quality on-line reviews publication through Internet is very new and needs further refining to present better attractivity.*
- 1998 - 2003 Member of the Scientific reviewing board of the “Annals of Analytical Toxicology”  
*Previously called “Toxicorama” this French scientific journal is now covering wider scope and had recently gathered greater audience*

#### - organisational

- 1988 Organisation of the first international congress on Ethnopharmacology, Strasbourg, France.  
*This international symposium attracted more than 300 participants and allowed a special issue of the Journal of Ethnopharmacology containing the proceedings published as a reference book.*
- 1968 – 1988 Organisation and participation to four scientific international expeditions in Amazonia (Peru et Colombia), in the Orinoco Delta (Venezuela) and in Haiti.  
*In 1968, 1978, 1987, 1990 and 1992, I have set up and taken part at several scientific expeditions (18 months duration in total) aimed to collect original data from medicinal and toxic plants used by native for curing and shamanistic purposes. One of these was sponsored by the NSF (1978).*

#### EDUCATION :

- 1999 Registered Toxicologist at the Swiss and European levels.
- 1978 Post grade in mass spectrometry at the Department of Organic Chemistry, University of Bristol, Bristol, UK.
- 1977 - 1978 Post grade in analytic toxicology at the Department of Toxicology, Karolinska Institute at Stockholm, Sweden.

- 1977 PhD in Sciences, University of Lausanne.
- 1967 Graduated in Chemistry, Faculty of Sciences, University of Lausanne.

**OTHERS :**

- 1995 - 2012 Board Member and President of the Foundation for Sport, Science and Society (Safe Sport)
- 2000 - 2002 Board Member and President (2000 – 2002) of the Inter-faculties Department of Sport and Health at the University of Lausanne
- 2002 - Member of the Swiss Anti-doping Disciplinary Commission

**Previous and remaining Scientific Memberships:**

TIAFT	The International Association of Forensic Toxicologists
SOFT	The Society of Forensic Toxicology
EPS	The Ethnopharmacological Society
GFTCh	Gesellschaft für Forensische Toxikologie und Chemie
SFTA	Société Française de Toxicologie analytique
NSCS	New Swiss Chemical Society – Analytical section
CCCTA	Centre de compétence en chimie et toxicologie analytique
SSML	Société Suisse de médecine légale – Swiss Society of Legal Medicine
SSPT	Société Suisse de pharmacologie et de toxicologie

**Achievements:**

- Published over eighty papers and reviews in peer-reviewed scientific journals and several chapters in books and encyclopaedias.
- Author and publisher of the book entitled “Cannabis.ch, Aspects ethnopharmacologiques du chanvre en Suisse”, Edition du Flon, 2003
- Received BCV scientific research price for doping in adolescent’s hormonal homeostasis
- Invited speakers to many international scientific symposia (forensic toxicology, analytical chemistry and ethnopharmacology)
- Enrolled in Scientific committees for the organisation of congresses at the international level.
- Scientific and technical expert in forensic toxicology and doping at various levels like National, International sport federation and Court for Arbitration of Sport (CAS)
- Curator of an educational exhibition at the Olympic Museum in Lausanne entitled “Balance and Performance – Nov 2003 - May 2004

