

BIOGRAPHICAL SKETCH

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NAME Bady, Pierre		POSITION TITLE biostatistician	
eRA COMMONS USER NAME (credential, e.g., agency login) pierre.bady@unil.ch			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YYYY	FIELD OF STUDY
UMR-CNRS 5023, University of Lyon I, France	MSc	2001	Biostatistics and Natural Science
UMR-CNRS 5023, University of Lyon I, France	University diploma	2004	Informatics and programming (IT)
UMR-CNRS 5023, University of Lyon I, France	PhD	2005	Biostatistics and Natural Science

A. Personal Statement

During these last years, I have acquired high expertise and experience in biostatistics domains on very various types of data. More recently, my involvement in the analyses of multidimensional databases on Glioblastoma has given me the opportunity of developing competences in the analyses of the DNA methylation profiles. Hence, we have successfully established a predictive model of the DNA methylation status of MGMT promoter based on the HumanMethylation450 BeadChip (Bady et al. 2012). I'm directly concerned by the development of tools for the analysis of DNA methylation profiling and the extension of this platform for the estimation of the copy number aberrations to propose an integrated view of genomic and epigenetic organization across Glioblastoma.

My role in this project will be to participate in the construction of the multidimensional database of molecular and clinical data of a cohort of Glioblastoma patients treated within previous clinical trials of the European Organization for Research and Treatment of Cancer (EORTC) and i will provide a support in biostatistics for the data analyses.

B. Positions and Employment

- 09/2000 - 09/2001 **Master's student in biometry/biostatistics**, University of Sciences, Claude Bernard Lyon 1, UMR-CNRS 5023, France. Assessment of biological responses of aquatic communities to the temporal variability.
- 10/2001 - 06/2005 **PhD Researcher in biometry/biostatistics**, University of Sciences, Claude Bernard Lyon 1, UMR-CNRS 5023, France. Modeling and prediction of trait response and evaluation of functional diversity of stream invertebrates in large rivers.
- 06/2005 - 07/2005 **Biostatistician**, Contract with environmental consulting agency (ARALEP), Lyon, France. Involvement in a project on the impacts of global changes and extreme hydro-climatic events on macroinvertebrate community structures in the French Rhône River with CEMAGREF (Lyon, Aix-En-Provence), University of Sciences Claude Bernard Lyon 1 and EDF Energy (R&D, DTG).
- 08/2005 - 11/2006 **Biostatistician**, Clinical Epidemiology Centre, Lausanne University Hospital (CHUV), Lausanne, Switzerland.
- 01/2007 - 12/2008 **Biostatistician**, Agricultural and Environmental Engineering Research (CEMAGREF, Governmental Agency), Aix-En-Provence, France. Involvement in European project:

- Improvement and Spatial extension of the European Fish Index (EFI+), Contract Number 044096.
- 01/2009 - 09/2009 **Biostatistician**, Agricultural and Environmental Engineering Research (CEMAGREF, Governmental Agency), Antony, France. Involvement in European project: Improvement and Spatial extension of the European Fish Index (EFI+), Contract Number 044096.
- 10/2009 - 10/2012 **Biostatistician**, Bioinformatics Core Facility, Swiss Institute of Bioinformatics, in collaboration with Institut Universitaire de Médecine Sociale et Préventive (CHUV) and Laboratory of tumor biology and genetics (CHUV), Lausanne, Switzerland.
- 10/2012 - pres **Biostatistician**, Bioinformatics Core Facility, Swiss Institute of Bioinformatics and Laboratory of tumor biology and genetics (CHUV), Lausanne, Switzerland.

C. Selected Peer-reviewed Publications (Selected from 22 peer-reviewed original publications)

Most relevant to the current application

1. **Bady P.**, Sciuscio D., Diserens A.-C., Bloch J., van den Bent M.J., Marosi C., Dietrich P.-Y., Weller M., Mariani L., Heppner F.L., Macdonald D.R., Lacombe D., Stupp R., Delorenzi M. and Hegi M.E. (2012) MGMT methylation analysis of glioblastoma on the Infinium methylation BeadChip identifies two distinct CpG regions associated with gene silencing and outcome, yielding a prediction model for comparisons across datasets, tumor grades, and CIMPstatus, *Acta Neuropathologica*, 124 (4), 547-560.
2. Hegi M.E., Janzer R.-C., Lambiv W.L., Gorlia T., Kouwenhoven M.C.M., Hartmann C., von Deimling A., Martinet D., Besuchet Schmutz N., Diserens A.-C., Hamou M.-F., **Bady P.**, Weller M., van den Bent M.J., P Mason W.P., Mirimanoff R.-O., Stupp R., Mokhtari K. & Wesseling P. (2012) Presence of an oligodendroglioma-like component in newly diagnosed glioblastoma identifies a pathogenetically heterogeneous subgroup and lacks prognostic value - Central pathology review of the EORTC_26981 / NCIC_CE.3 trial, *Acta Neuropathologica*, 123 (6), 841-852.
3. Hegi M.E., Diserens A.-C., **Bady P.**, Kamoshima Y., Kouwenhoven M.C., Delorenzi M., Lambiv W.L., Hamou M.-F., Matter M.S., Koch A., Heppner F.L., Yonekawa Y., Merlo A., Frei K., Mariani L. & Hofer S. (2011) Pathway Analysis of Glioblastoma Tissue after Preoperative Treatment with the EGFR Tyrosine Kinase Inhibitor Gefitinib - A Phase II Trial, *Molecular Cancer Therapeutics*, 11, 154-164, DOI: 10.1158/1535-7163.MCT-11-0048.

Additional publications (in chronological order)

1. **Bady P.**, Doledec S., Dumont B. & Fruget J.-F. (2004). Multiple co-inertia analysis: a tool for assessing synchrony in the temporal variability of aquatic communities. *Comptes Rendus De L'Académie Des Sciences Serie III Sciences De La Vie Life Sciences*, 327, 29-36.
2. Bigliardi-Qi M., Gaveriaux-Ruff C., Zhou H., Hell C., **Bady P.**, Ruffli T. and Bigliardi P.L. (2006) Deletion of delta opioid receptor in mice alters skin homeostasis and delays wound healing. *Differentiation*, 74, 174-185.
3. Daepfen J.B., Gaume J., **Bady P.**, Yersin B., Calmes J.M., Givel J.C., Gmel G. (2007) Brief alcohol intervention does not influence alcohol use in trauma patients: a randomised controlled clinical trial. *Addiction*, 108 (8), 1224- 1233.
4. Mathez C., Bangala Y., **Bady P.** & Zellweger J.-P. (2007) Active screening for pulmonary tuberculosis among immigrants by Chest x-ray at the Swiss border, *Swiss Medical Weekly*, 137, 649-654.

5. Roulin D., Matter M., **Bady P.**, Linéard D., Gugerli O., Boubaker A., Bron L. & Lejeune F. (2008) Pronostic value of sentinel node biopsy in 327 prospective melanoma patients from a single institution, *European Journal of Surgical Oncology*, 34 (6), 673-679.
6. Indino P., Lemarchand P., **Bady P.**, de Torrenté A., Genné L. & Genné D. (2008) Prospective study about procalcitonin and other systemic infection markers in patients with leukocytosis, *International Journal of Infectious Diseases*, 12 (3), 319-324.
7. Manuel O., Burnand B., **Bady P.**, Kammerlander R., Vansantvoet M., Francioli P., Zanetti G. (2009) Impact of standardised review of intravenous antibiotic therapy 72 hours after prescription in two internal medicine wards, *Journal of Hospital Infection*, xx, 1-6.
8. Logez M., **Bady P.** & Pont D (2012) Modelling ecological niche of fish species at the European scale: sensitivity to temperature and precipitations and associated uncertainties. *Ecology of Freshwater Fish*, 21 (2), 266-282.
9. **Bady P.**, Diserens A.-C., Castella V., Kalt S., Heinimann K., Hamou M.-F., Delorenzi M. & Hegi M.E. (2012) DNA Fingerprinting of Glioma Cell Lines and Considerations on Similarity Measurements, *Neuro-Oncology*, 14 (6), 701-711.
10. Logez M., **Bady P.**, Melcher A. and Pont D. (2013) A continental-scale analysis of fish assemblage functional structure in European rivers, *Ecography*, 36 (1), 80-91.

D. Research Support

1. Improvement and Spatial extension of the European Fish Index (EFI+), A specific targeted research project supported by the European Commission under FP 6 contributing to the implementation of task "Ecological Status Assessment - filling the gaps" (Priority "Integrating and Strengthening the European Research Area - Scientific Support to Policies", Task 4). European project (2007-2009), Contract Number 044096.
Role: Biostatistician
2. "Conseil bref aux consommateurs d'alcool à risque consultant un service d'urgence suite à un accident", project on brief alcohol interventions (2005-2006, Lausanne, Switzerland) with Treatment Centre for Alcoology of Lausanne (CTA, Lausanne University Hospital, CHUV)
Role: Biostatistician
3. "Etude Thermique Globale du Rhône Phase 3: Relations entre la thermique et la biologie", project with ARALEP, CEMAGREF, UNIVERSITY of Lyon (UCBL1) and EDF Energy (R&D, DTG) (2005-2006).
Role: Biostatistician
4. Statzner B., **Bady P.**, Dolédec S. & Gayraud S. (2003). Biologische von Flusswirbellosen als Basis einer überregionalen Bewertung ökologischer Funktionsfähigkeit (FKZ 0330029). Endbericht an die Bundesanstalt für Gewässerkunde.
Role: Biostatistician
5. **Bady P.** & Dolédec S. (2002). Réponses biologiques à la variabilité hydrologique et thermique, In Importance de la variabilité hydroclimatique régionale sur les peuplements de macroinvertébrés benthiques du Bas-Rhône. rapport dans le cadre de l'Action 2 du programme GICC-AQUABIO (French Ministry of the Environment).
Role: Biostatistician