

Guillaume Thouroude
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Born on November 26, 1983
French
Single
gthouroude@hotmail.com



To do a paid professional training or “little job” in animal welfare, preservation of the environment or winemaking, in Australia or NZ

Education

Master’s degree in Biology (overall average grade: 5/6) University of Geneva, Switzerland Total: 318 ECTS	2009-2011
Master of Science in Molecular and Cellular Biology, 1st year Bachelor’s degree in Biology with minor in Chemistry Joseph Fourier University, Grenoble 1, France	2004-2008
Medical Laboratory Technician School of Geneva, 1st and 2nd years	2002-2004
International Baccalaureate , International School of Geneva (LGB)	2002

Professional experience

Pedagogy	Teaching private lessons in Biology for high school students	Since 2011
Reflection Organization Autonomy	Master’s thesis: “Action potentials in <i>Arabidopsis thaliana</i> (L.) Heynh. generated by mechanical stimulation” – Laboratory of Plant Physiomatics, University of Geneva – advisor: Dr Robert Degli Agosti – for more details: www.arabidopsme.com	2009-2011
Communication	Co-author of the poster: “Deciphering the ion channels underlying electrical signaling in plants” – The 22nd ion channel meeting, Presqu’île de Giens, France	09/2011
	Master 1 internship: “Propagation between leaves of action potentials in <i>Arabidopsis thaliana</i> after a mechanical stimulation” – Laboratory of Plant Physiomatics, University of Geneva – advisor: Dr R. Degli Agosti	03-05/2008
Humanitarian	Volunteer secretary of “Kharikhola School Project”, NGO developing educational projects in a Nepalese village – communication with public and private donors; newsletter development and management	Since 2007

Languages

French: native language
English: proficiency level, C2 of the Common European Framework of Reference (CEFR) for Languages
Spanish: elementary level, A2 of the CEFR for Languages

Computer skills

MS Office (Word, Excel, PowerPoint), HTML, LinkedIn, SigmaStat

Hobbies and interests

Health, environment, Reiki, travels

Technical and practical skills

Plant biology (+++): action potentials generated by mechanical and “wound and drop” (wounding with deposition of 5 μ L of 1 M potassium chloride onto adult leaves) stimulations; atomic force microscopy; botany; chlorophyll fluorescence (FluorCam 690M); chloroplast isolation (Hill reaction and cyclic photophosphorylation); cytochemistry of polysaccharides (PATAg test); daily carbon balance (VegeSTAR software); light and hormonal control of plant growth and development; transient and stable transformation

Animal biology (+): blood glucose measurement; contraction of the gastrocnemius muscle; dissection of the brain and heart; electrical activity of the sciatic nerve; oxygen consumption and energy expenditure; smooth muscle contractility and mediators of the autonomic nervous system

Plant and animal biology (++): genetic crossing; histological and histochemical staining procedures; morphology and anatomy; optical microscopy; phylogenetics; (scanning and transmission) electron microscopy; systematics; taxonomy; tissue culture

Molecular biology (+): bacterial transformation; chromatin isolation; chromatography; DNA isolation, amplification (PCR) and sequencing; electrophoresis; fluorescence microscopy; genetic mapping; immunofluorescence; immunolabeling with colloidal gold; northern blot; nuclear and total protein extraction; plasmid extraction; transfection; western blot

Cellular biology (+): bacterial, yeast and mammalian cell culture; extraction, separation and determination of nucleic acids, proteins, sugars and lipids; oxygraphic measurement of catalase activity in fibroblasts

Biochemistry (+): ELISA; enzyme (overexpression, purification and kinetics); protein purification by ammonium sulfate precipitation; purification of polyhistidine-tagged recombinant proteins on a nickel column

Chemistry (+): (acid-base, microchemical and oenological) measurement; analysis of ion exchange; application of redox reactions: the Leclanché cell; calorimetric determination of heat reaction; characterization of alcohol and carbonyl groups; chemical kinetics; detection of halides in water and measurement of sea water salinity; diagram of a pure substance; electrical conductivity meter; enantiomer separation; gravimetric analysis of hydrated aluminium chloride; manipulation and visualization of crystal structures; potentiometric titration; spectrophotometry; spectroscopy and reactivity in organic chemistry; stereochemistry

Medicine (++): clinical chemistry; hematology; histology; immunohematology; medical microbiology; neurology; parasitology

(+): basic knowledge

(++): good proficiency

(+++): excellent proficiency