

**Guillaume Thouroude**  
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Born on November 26, 1983  
French  
Single  
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**To work or do a professional training in animal welfare, preservation of the environment or winemaking in Australia or New Zealand**

### Education

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

### Professional experience

	Basic course "Global Diagnostics II" (Vitatec) given by Mr André Sauthier, Uzès, France	19-23/06/2020
	Humanitarian mission, construction of greenhouses and introduction of new vegetable varieties, Kharikhola, Nepal	10/2017
	Humanitarian mission, introduction of new cereal varieties, Kharikhola	04/2014
Pedagogy	Teaching private lessons in biology for college students	Since 2011
Reflection Organization Autonomy	<b>Master's thesis:</b> "Action potentials in <i>Arabidopsis thaliana</i> (L.) Heynh. generated by mechanical stimulation" – Laboratory of Plant Physiology, University of Geneva – for more details: <a href="http://www.arabidopsme.com">www.arabidopsme.com</a>	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
	<b>Master 1 internship:</b> "Propagation between leaves of action potentials in <i>Arabidopsis thaliana</i> (L.) Heynh. after a mechanical stimulation" – Laboratory of Plant Physiology, University of Geneva	03-05/2008
	<b>Secretary</b> of "Kharikhola School Project", NGO developing educational projects in a Nepalese village – drafting of documents; Internet communication with public and private donors; website creation	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**

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

### **Hobbies and interests**

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Health, environment, Reiki, travels

### **Practical and technical skills**

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**Plant biology (+++):** action potentials generated by mechanical and “wound and drop” (wounding with deposition of 5  $\mu$ 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; stable and transient transformation

**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, carbohydrates 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

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

(+): basic knowledge

(++): good proficiency

(+++): excellent proficiency