

PERSONAL INFORMATION

René Eduardo Hoffstetter Gajardo

📍 Miguel de Unamuno 01176, Temuco (Chile)

📞 (+56) 996921933 📠 (+57) 3173233002

✉️ mhoffstetter@icloud.com

💬 Skype nyquist_ib1

Sex Male | Date of birth 1985 | Nationality Chilean

JOB APPLIED FOR

Postdoctoral position

WORK EXPERIENCE

25/05/2014–Present

Exchange Student

Public Health Laboratory, Secretaria Distrital de Salud, Bogotá (Colombia)

Evaluation of methylation levels of seven selected genes related to progression and early detection of Cervix Cancer using Methylight in DNA from biopsies tissue of women with different histological diagnose.

Concordance study between different HPV typing techniques, using Linnear Array (ROCHE, Germany), Gene Flow (Diaqcor, Japan) and HPV Easy Typing (Molecular Pathology Lab, Chile).

Prevalence study of HPV typing in 450 biopsy samples of Colombian women using HPV Easy Typing. This methodology was designed for biopsy and liquid cytology samples.

10/2011–Present

Doctoral Thesis Student

Molecular Pathology Laboratory, Universidad de La Frontera, Temuco (Chile)

Titled "Detection of DNA Methylation Biomarkers for Early Diagnosis of Cervix Cancer. Stage I and II of Biomarker Development Trial". I have acquired theoretical and practical knowledge about Epigenetics, DNA Methylation, DNA Methylation MicroArray Analysis, Methylation Specific PCR (MSP), Quantitative Methylation Specific PCR (qMSP) and Methylight.

03/2012–07/2012

Laboratory Professor

Universidad de La Frontera, Temuco (Chile)

Laboratory professor in the subject of "Biotechnological Processes Advanced I" in the Career of Biotechnology, including the design of protocols and laboratory experiences, DNA extraction, PCR optimisation and Western Blot.

10/2011–03/2012

PhD student

Molecular Pathology Lab, Temuco (Chile)

I worked on a research unit in the field of "Typing of Human Papilloma Virus", using reverse line blot in DNA extracted from biopsies of Esophagus and Prostate Tissues.

19/10/2009–01/04/2010

Biotechnology Engineer

Universidad del Bío Bío, Concepción (Chile)

FONDEF project "Biotreatment of the Wood of *Eucalyptus spp.* to improve the efficiency of the kraft pulping process"; scale up of *Ophiostoma piceae* culture from flask culture of 200 millilitres to bioreactors of 3 and 10 liter.

- 07/2008–12/2008 **Undergraduate Thesis Student**
Plant Biotechnology Laboratory, Universidad San Sebastián, Concepción (Chile)
 Thesis titled "Organogenic callus induction of *Pinus radiata* D. Don"; I worked in disinfection protocols of pine needles of five years threes, and callus and shoot induction with hormones in explants of pine needles.
- 12/2005–05/2006 **Practicing Student**
Forest Genomics and Molecular Biology Laboratory, Biotechnology Center, Concepción (Chile)
 Professional practice "Imaging for phylogenetic analysis of clones of *Eucalyptus globulus* with RAPDs"; I worked with PCR and Electrophoresis with fifteen pair of RAPDs primers in three hundred samples of DNA from clones of *Eucalyptus*.
- 01/2005–02/2005 **Practicing Student**
SPK Fishery S.A, Talcahuano (Chile)
 Industrial practice "Optimization of Fish Oil Separators 413 and 517" including a fish oil analysis.

EDUCATION AND TRAINING

- 01/03/2011–Present **PhD student in Applied Cellular and Molecular Biology**
Universidad de La Frontera
 01145 Francisco Salazar Avenue, Temuco (Chile)
<http://doctoradobiomol.ufro.cl>
- 03/2003–05/2009 **Biotechnology Engineer**
Universidad San Sebastián, Concepción (Chile)
- 03/2003–05/2009 **Degree in Engineering Science**
Universidad San Sebastián, Concepción (Chile)

PERSONAL SKILLS

Mother tongue(s) Spanish

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	B1	B2	B2	B2
German	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Organisational / management skills

Leadership skills gained as the President of the first Student Organisation of Biotechnology Engineers of Universidad San Sebastián, Concepción (Chile), 2005-2006; Delegate in the Student Federation of Universidad San Sebastián, Concepción (Chile), 2005-2006; and Treasurer of Regional Mountain Association of Araucania, Temuco (Chile), 2012-2014.

Good organisational skills gained in the Organisation Committee for the "Second Meeting of Students of Biotechnology Engineering", Concepción (Chile), October 2006; member of the Organisation Committee of the "First Mountain Seminar" of the Regional Mountain Association of Araucania,

Curriculum Vitae

Temuco (Chile), 2013; Organizer of a Basic Climbing Workshop, Universidad de La Frontera, Temuco (Chile), 2013.

Job-related skills Advanced command of Real-time PCR equipments gained in a forty hours course dictated by Genesys Chile, Concepción (Chile), January 2006; working on my thesis project using Methylight technique for the evaluation of methylation of two genes on blood, urine and liquid cytology samples 2012 to 2014; assessment of methylation levels of seven genes in cervical biopsy samples, Secretaria Distrital de Salud, Bogotá (Colombia), 2014.

Computer skills Advanced command of office suite (word processor, spread sheet and presentation software).
Advanced command of Statistical Package of Prism Graphpad.
Advanced command of Windows operative system and Mac OS X.
Basic command of Linux operative system.
Basic command of R Studio, Latex and Matlab.

Other skills Mountaineering: experienced climber and active member of the Hiking and Climbing Club of Universidad de La Frontera, Temuco (Chile). 2011 to the present.
Basic Mountaineering Course, Rutas Australes, Temuco (Chile), 2013.

ADDITIONAL INFORMATION

Teaching Experiences

Private lessons of Science and Mathematics, 2005 to 2010.

Teacher Assistant of Thermodynamics (practice, 2006), Analytic Chemistry (practice and laboratory, 2005), Mathematics II (practice, 2004) and General Chemistry (laboratory, 2004) in Universidad San Sebastián, Concepción (Chile).

Publications

- **Hoffstetter, R.**; Andana, A.; Guzmán, P.; Ili, C. G.; Retamal, J.; Mora, B.; Roa, J. C. & Sánchez, R. Frecuencia de virus papiloma humano en tumores no ginecológicos de la Región de La Araucanía, Chile. *Int. J. Morphol.*, 32(4):1254- 1260, 2014.

- Brebi, P.*; **Hoffstetter, R.***; Andana, A.; Ili, C. G.; Saavedra, K.; Viscarra, T.; Retamal, J.; Sanchez, R. & Roa, J. C. Evaluation of ZAR1 and SFRP4 methylation status as potentials biomarkers for diagnosis in cervical cancer: exploratory study phase I. *Biomarkers*,19(3), 181-188, 2014. *These authors contributed equally to this work.

- Melo, A.; Vázquez, A. M.; Andana; Matamala, M.; Pino, T; Guzmán, P; **Hoffstetter, R.**; Ili, C. G.; Brebi, P. & Roa J. C. Genotyping of human papillomavirus in women under 25 years old treated in the screening program for cervical cancer. *Rev Chilena Infectol.* 31 (5), 542-548, 2014.

Conferences

- Brebi, P.; **Hoffstetter, R.**; Andana, A.; Ili, C. G.; Viscarra, T.; Retamal, J.; Mora, B. & Roa, J.C. Evaluation of ZAR1 and SFRP4 promoter methylation as potential biomarkers for detection of cervical cancer in cytobrush, urine and blood samples. 5th World Congress on Biotechnology. 25th to 27th of June, 2014. Valencia, España. *Winner of the best poster of the congress.

- **Hoffstetter, R.**; Brebi, P.; Andana, A.; Ili, C.G.; Viscarra, T.; Retamal, J.; Buchegger, K. & Roa, J.C. Evaluation of ZAR1 and SFRP4 promoter methylation as potential biomarkers for detection of cervical cancer in citobrush and urine samples. AACR annual meeting. 5th to 9th of April, 2014. San Diego, CA, United States of America.

- Brebi, P.; **Hoffstetter, R.**; Andana, A.; **Ili, C.**; Viscarra, T.; Retamal, J.; Buchegger, K. & Roa, J.C. Evaluation of ZAR1 and SFRP4 promoter gene methylation as potential biomarkers for diagnosis and progression in cervical carcinogenesis: Exploratory study phase I. 4th International Workshop: Advances in Science and Technology of Bioresources. 4th to 6th of December, 2013. Pucon, Chile.

- Andana, A.; **Hoffstetter, R.**; Letelier, P.; Retamal, J.; Brebi, P. & Roa, J.C. Determinación de la frecuencia y distribución de genotipos de virus papiloma humano (HPV) en tejido neoplásico de

Esófago. XXI Congreso Latinoamericano de Bioquímica Clínica, y Medicina de Laboratorio. 29th to 31th of October 2013. Lima, Perú.

- Brebi, P.; Andana, A.; **Hoffstetter, R.**; Ili, C., Viscarra, T., Silva, R., Garcia, P., Leal, P., Roa, J.C. Novel promoter hypermethylation marker for prognostic in cervicouterine carcinogenesis. AACR Annual Meeting. 6th to 10th of April, 2013. Washington, DC, United States of America.

Seminars

- Course "Bioinformatics tools for studying gene expression", Universidad de La Frontera, Temuco (Chile). 24th to 28th of March, 2014.

- Workshop "Drafting of patent applications in the areas of biotechnology, chemical, pharmaceutical and mechanical engineering" OMP/INAPI, Santiago (Chile). 14th to 18th of October, 2013.

- Workshop "Managing Intellectual Property (IP) and Technology Transfer (TT) for Innovation in Research Institutions", BIOREN, Universidad de La Frontera, Temuco, (Chile). 7th to 9th of October, 2013.

- Seminar "International Symposium on Biomedical Research Models. Current Issues and New Challenges" Universidad de Concepción, Concepción (Chile). 13th to 15th to November. 2012.

- Workshops "Programming Language R" and "Document Generation with LaTeX" Asociación Argentina de Bioinformática y Biología Computacional. Oro Verde (Argentina). September 24th, 2012.

- Congress "Third Congress of Bioinformatics and Computational Biology", Asociación Argentina de Bioinformática y Biología Computacional. Oro Verde (Argentina). 24th to 28th of September, 2012.

- Course "Epigenetic Regulation in Plants", Universidad de Concepción, Concepción (Chile). 6th to 8th of June, 2012.

- Seminar "III Conference on Regenerative Medicine", BIOREN, Universidad de La Frontera, Temuco (Chile). April 27th, 2012.

- Course "Molecular Biology Techniques Applied to Environmental Samples", Universidad de La Frontera, Temuco (Chile). January 23th 2012.

- Course "Gene Therapy and Oncolytic virus", dictated by Dr. Manuel Grez from Georg-Speyer-HausFrankfurt Institute, Germany. Universidad de La Frontera, Temuco (Chile). January, 2012.

- Third International Workshop "Advances in Science and Technology of Bioresources", Universidad de La Frontera, Pucón (Chile). 2th to 4th of November, 2011.

- Workshops "Development of business incubators and Capital Semilla" and "Support for Intellectual and Industrial Protection", Innova Bío Bío, Concepción (Chile). 2007.

- Second Seminar "Biotechnology: A tool for the development of the Bío Bío region", Biotechnology Center, Universidad de Concepción, Concepción (Chile). 2005.

Honours and awards

- CONICYT Scholarship for National PhD Studies, 2011, Chile.

- First place on egress ranking of Biotechnology Engineer, of 14 students, with average grade of 5.7 in the scale of 1.0 to 7.0 with a 60% of difficulty. Universidad San Sebastián, Concepción (Chile). 2009.

- Academic Excellence Scholarship, Universidad San Sebastian, Concepción (Chile). 2008.

- Honorable Mention in the "Fifth Contest of Entrepreneurial Innovation in the Bio Bio Region", organized by Innova Bío Bío, Concepción (Chile). August, 2007.

- Labour Scholarship 2004 to 2007, Universidad San Sebastián, Concepción (Chile); working as assistant in Mathematics II, in quantification of laboratory reagents, entry of surveys on database and as assistant in the university library.