

CURRICULUM VITAE

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**6.** **DEGREES**  :

1976 Universidad Peruana Cayetano Heredia

 Bachellor in Sciences with mention in Biology.

1977 Universidad Peruana Cayetano Heredia

 Licenciate in Sciences with mention in Biology.

1986 Faculty of Medicine

 Universidad Nacional Mayor de San Marcos.

 Medical and Surgeon

**7. POSTGRADUATE**

1978 Universidad Peruana Cayetano Heredia

 **Magister in Sciences with mention in Physiology**.

1985 Universidad Peruana Cayetano Heredia.

 **Doctor in Sciences with Mention in Physiology**.

1992 Faculy of Medicine

 Universidad Peruana Cayetano Heredia

 **Endocrinologist**

1999 Universidad Peruana Cayetano Heredia

 **Doctor in Medicine**

**POST DOCTORAlL FELLOW**

1987 Post Doctoral Fellow in Andrology. Monash University. Melbour­ne, Australia. World Health Organization (WHO). Octuber 1987 to September, 1988.

1988 Post-doctoral Training in techniques of Assisted Fertilization. World Health Organization. Fertilab. September 27 to November 11. Buenos Aires, Argentina.

**WORK**

1979- continues Professor, Universidad Peruana Cayetano Heredia

**POSITION**

Director, High Altitude Research Institute, Universidad Peruana Cayetan o Heredia (1989-2005).

Deputy Dean, Faculty of Sciences and Philosophy, Universidad Peruana Cayetano Heredia (1999-2002: 2002-2005)

Dean, Faculty of Sciences and Philosophy, Universidad Peruana Cayetano Heredia (2005-2008).

Secretary, National Academi ofr Sciences, Peru (2009-2012; 2012-2015)

Deputy President, National Academy of Sciences, Peru.(2015-2018)

President, National Academy of Sciences, Peru (2018-2021)

Secretary, National Academy of Medicine, Peru (2009-2011)

Tesaurer, National Academy of Medicine, Peru (2011-2013)

Secretary, National Academy of Medicine, Peru (2015-2017)

President of Scientific Committee, National Academy of Medicine, Peru (2017-2019)

Tesaurer, National Academy of Medicine, Peru (2019-2021)

**PROYECTOS DE INVESTIGACION QUE HA DIRIGIDO O PARTICIPADO**

Desde 1977 hasta 2015 se han realizado más de doscientos cincuenta proyectos de investigación.

 Las líneas de investigación están referidas a:

1. Salud Reproductiva en las grandes alturas
2. Fisiología de la Reproducción: Andrología
3. Hormonas y Adaptación a la altura
4. Estudio de Plantas Medicinales relacionadas a Reproducción
5. Salud materno-infantil en la altura
6. Salud Ambiental y Ocupacional en la altura.
7. Círculo de Investigación en Plantas con Efecto en la Salud

RESEARCH PROJECTS THAT HAS DIRECTED OR PARTICIPATED

From 1977 to 2015 more than two hundred and fifty research projects have been carried out. The research lines refer to: Reproductive Health at high altitudes; Physiology of Reproduction: Andrology; Hormones and Adaptation to High Altitude; Study of Medicinal Plants related to Reproduction; Maternal and Child Health at high altitude; Environmental and Occupational Health at high altitude; Research Circle in medicinal plants with Health Effects

**Projects in the last 15 years:**

1. 2005-2006: Drug development efforts from Medicinal Plants: Maca
2. 2007-2008: Preparation of sachets of a combination of maca and Yacon extracts: chemical and biological evaluation"
3. MATERNAL HEMOGLOBIN AND ADVERSE PREGNANCY OUTCOMES AT HIGH ALTITUDE IN PERÚ supported by the World Health Organization (2009-2010)
4. International Programme in Research and Research Training in Environmental and Occupational Health. Financiado con Fondos del Fogarty Program, NIH, USA with Emory university (2007-2012)
5. 2009-2010: Proceso de innovacion para desarrollo de extractos de productos naturales utilizando como coadyuvante al quitosano. Procom, CONCYTEC.
6. 2011-2012: Resultados adversos de la sífilis en el embarazo en Perú. Financiado por OPS/OMS
7. 2012. TENDENCIAS Y DETERMINANTES DE CESÁREAS EN PERÚ. Financiado por OMS
8. 2013: Estudio piloto de biodisponibilidad, seguridad y tolerancia en sujetos normales que reciben aceite de sacha inchi (Plukenetia volúbilis L)(código 60038), Proyecto SECO/GIZ
9. 2013: Contaminación ambiental en interiores y bajo peso al nacer en el Perú (Código: 60463) NIH/Emory university.
10. 2013: Embarazo pretérmino en la altura. Con Universidad de Pennsylvania.
11. 2014: Estudio clínico PER -088-13  en el INS titulado “Metabolómica, aceptabilidad y seguridad alimentaria al consumo de maca (Lepidium Meyenii) en varones y mujeres adultas de Cerro de Pasco (4340M) y de Lima (150M). Fondos del Canon y Sobrecanon minero de la región Pasco a la UNDAC (2014-2015).
12. 2014: Círculo de Investigación en Plantas con efecto en salud. Con Universidad nacional Daniel Alcides Carrión (Pasco), Universidad Nacional del Altiplano (Puno), y Universidad Nacional de la Amazonía (Iquitos). CONCYTEC (2014-2017).
13. 2013-2014: **PLANNING FOR A GLOBAL ENVIRONMENTAL HEALTH BASED IN PERU.** Con Emory University, Georgia University y Universidad de Chile. Apoyado por NIH-Fogarty Program (Estados Unidos).
14. 2015-2020. GeoHealth Award from the Fogarty International Center (FIC).

**SCIENTIFIC PUBLICATIONS**

**BOOKS**

1. **Gonzales GF** (1987) High Altitude Institute Research 1961-1986. Ed. R. Guerra-García, F. Sime y GF Gonzales. Lima-Peru. 237 pp.
2. **Gonzales GF.** (1991) Diagnosis and management of the infertile couple. High Altitude Institute Research. Lima-Peru. ed. GF Gonza­les. 208 pp.
3. **Gonzales GF.** (1992) Andrology. Fertility and Infertility. High Altitude Institute Research. Lima-Peru. ed. GF Gonzales. 318 pp.
4. **Gonzales GF.** (1993) Human Reproduction at High Altitude. High Altitude Institute Research. Lima-Peru. ed. GF Gonzales. 208 pp.
5. **Gonzales GF.** (1994) Adolescence in Peru. Lima-Peru. ed. GF Gonzales. 324 pp.
6. **Gonzales GF** (1995) Methodology for research in Human Reproduction. Lima-Peru. ed. IIA. Lima, Peru. 350 pp.
7. **Gonzales GF**  (1996) Female Sex, The Hard Sex: The Scientific Evidences. Lima-Peru. ed. GF Gonzales. 200 pp.
8. **Gonzales GF** (1997) Football and Acclimatization to High Altitude. Lima-Peru. Ed. IIA:Lima, Peru. 220 pp.
9. **Gonzales GF** (2006) Maca: De la Tradición a la Ciencia. Lima,Peru. UPCH:Lima. 250 pp
10. Gonzales GF, Nuñez D, Zevallos A, Gonzales-Castañeda C (2014). La Salud Ambiental en el Perú. 200 pp. Lima: Perú. Academia Nacional de Ciencias.
11. Gonzales GF. (2017) Maca. Del alimento perdido de los incas al milagro de los andes. Lima, Perú. UPCH: Lima, ANC:Lima. 232 pp.
12. Gonzales GF, Vasquez V, Raraz O. (2020) La contribución peruana a la Salud Ambiental en el Perú. 2020.

**COAUTHOR OR AUTHOR OF CHAPTERS OF BOOKS**

1. **Gonzales GF** (1986) Influence of socioeconomic status and altitude of residence in the anthropometrics of native scholar from different altitudes of Peru. In: Perinatality, Growth and Development in Peru. Ed. AMIDEP, Lima-Peru pp. 93-133.
2. de Kretser,DM., Robertson,DM., Risbridger,GP., **Gonzales,GF**., Drum­mond,A., Burger,HG (1989) Inhibin and related peptides. In. Molecular and Cellular Endocrinology of the testis. Serono Symposia Publica­tions. Raven Press 50: 11-20. (English).
3. de Kretser DM., Sun YT., Drummond AE., **Gonzales GF**., Robertson DM., Risbridger GP (1990). Physiological mechanisms controlling spermato­genesis. In: Gamete Physiology. (Eds). RH Asch, JP Balmaceda y Johnston I. Serono Symposia USA. pp 19-29 (English)
4. de Kretser DM., Risbridger GP., Drummond AE., **Gonzales GF**., Sun YT (1991) Paracrine mechanisms in the regulation of testicular function. In: Growth Factors & fertility Regulation. (eds) Haseltine & Findlay JK. pp 143-155. (English)
5. **Gonzales GF**., Guerra-García R (1993) Some characteristics of pregnancy and newborn at high altitude. In: Hypoxia: Basic and Clinic Investigations. F. León-Velarde and A. Arregui. 374 pp.
6. **Gonzales GF** (1997) High Altitude Institute Research. In: Universidad Peruana Cayetano Heredia. XXV Anniversary. Universidad Peruana Cayetano Heredia:Lima. pp. 243-246.
7. **Gonzales GF**, Guerra-García R, Kaneku L. (1998) Serum testosterone levels and adaptation to high altitude. In: Hideki Ohno, Toshio Kobayashi, Shigeru Masuyama, Michiro Nakashima (Eds) Progress in Mountain Medicine and High Altitude Physiology. Matsumoto:Japanese Society of Mountain Medicine. pp.138-142.
8. **Gonzales GF.** (1998) Demographic, reproductive, morbidity and mortality patterns at high altitude in Peru. In: Hideki Ohno, Toshio Kobayashi, Shigeru Masuyama, Michiro Nakashima (Eds) Progress in Mountain Medicine and High Altitude Physiology. Matsumoto:Japanese Society of Mountain Medicine. pp. 174-179.
9. **Gonzales GF**, Salirrosas A. (1998) The relationship of pulse oxygen saturation at birth and the score of neurological evaluation at 24 hours of life. In: Hideki Ohno, Toshio Kobayashi, Shigeru Masuyama, Michiro Nakashima (Eds) Progress in Mountain Medicine and High Altitude Physiology. Matsumoto:Japanese Society of Mountain Medicine. pp. 327-328.
10. **Gonzales GF**, Linares P, Loayza G, Torres I, García J, Góñez C. (1998) Factors explaining low pulse oxygen saturation in menopausal women at high altitude. In: Hideki Ohno, Toshio Kobayashi, Shigeru Masuyama, Michiro Nakashima (Eds) Progress in Mountain Medicine and High Altitude Physiology. Matsumoto:Japanese Society of Mountain Medicine. pp. 331-332.
11. **Gonzales GF.** (2005)Of Maca and Men: Peru. In: Sharing Innovative Experiences Vol. 9: Development of Pharmaceutical Products from Medicinal Plants in the Developing World. UNDP/TCDC, TWNSO and TWAS: Trieste, Italy. 2005.
12. **Gonzales GF,** Rubio J, Gasco M, Yucra S, Gonzales C. Lepidium meyenii, Maca, a plant from the highlands of Peru: Pharmacological properties and impact on production and exportation. Proceeding of the 9th International Congress on Ethnopharmacology, Nanning-China; 2006:12-33
13. **Gonzales GF.** Chapter 10. Lepidium meyenii, Maca, a plant from the highlands of Peru: Biological properties. In: Advances in Natural Producst: Importance in Health and Economy. Ed. Zaheer Ahmed and Asha. Centre for Science and Technology of the Non-Aligned and Other Countries:Delhi. 2008: 69-75
14. **Gonzales GF.** [La Importancia de la Fisiología en un Megaproyecto de Biodiversidad. En: Identificación de Megaproyectos para Investigación Cientifica]. The Importance of Physiology in a Mega Project of Biodiversity. In: Identification of Megaprojects for Scientific Research. Ed. Segovia J.Concytec: Lima. 2010: 59-76.
15. **Gonzales GF**. Chapter 11. Lepidium meyenii (Maca): Excellent Source for Nutrigenomic Exploration and the Development of Nutraceuticals for Fertility & Sexual Health. In **Nutrigenomics: Application to the Development of Nutraceuticals and Cosmeceuticals**. **Editors:**M.T. Ravi Subbiah (University of Cincinnati, College of Medicine, Cincinnati, Ohio, USA). (Gustavo F. Gonzales, Department of Physiological Sciences, Faculty of Sciences and Philosophy, and Instituto de Investigaciones de la Altura, Universidad Peruana Cayetano Heredia, Lima, Peru. USA:Nova Publishers. 2013; pp: 175-192
16. **Pacora**-Portella P, Gonzales GF. Capítulo III: Influencia de la altitud en el peso del recién nacido. En: Características del Peso al Nacer en el Perú. Ed. M. Ticona y D. Huanco. CONCYTEC:Tacna; 2013; pp:49-72.
17. **Peng Yong, Gonzales GF**. Maca. New Resource for Health. Instituto de Desarrollo de Plantas Medicinales (IMPLAD), Beijing, China. In Chinese. 2014.
18. Gastañaga MdelC, Gonzales GF, Bojórquez J. Mesa redonda “Agua” ¿Salud y seguridad?. En. Aguas y Arsénico Natural en Perú. Jornada de la Academia Nacional de Ciencias: Lima. Dic. 2015: 161-166.
19. **Gonzales GF**, Alarcón-Yaquetto DE, Zevallos-Concha A. Human adaptation to life at high altitude. In Biochemistry of oxidative stress. Physiopathology and clinical aspects. Ed. Ricardo Gelpi. Springer New York. 2016.
20. **Gonzales GF**, Alarcón-Yaquetto DE. Maca, a nutraceutical from the Andean Highlands. Handbook of Food Bioengineering (MULTI VOLUME SET) – ELSEVIER. Chapter 8: Therapeutic foods (Nutraceuticals). 2018. P. 373-395. [doi: 10.1016/b978-0-12-811517-6.00012-x]
21. **Gonzales GF,** Colarossi A, Bernex N, Rubín de Celis V, Caballero LS, Alvarez JF. Perú. En: Challenges and Opportunities for Food and Nutrition Security in the Americas. The View of the Academis of Sciences. IANAS Regional report: IAP: Mexico. 2017:471-506
22. **Gonzales GF,** Rubin de Celis V. Box 5. The Land of the superfoods. In: IANAS Regional Report: Challenges and Opportunities for food and nutrition secutiry in the Americas. IANAS-IAP: México. 2017: 504-505.
23. **Gonzales GF,** Vásquez-Velasquez C, Alarcón-Yaquetto DE. The Science behind Maca, a Traditional Crop from the Central Andes. In: Nutraceuticals and Dietary Supplements
Applications in Health Improvemepnt and Disease Management
[Editors: Raj K. Keservani, MPharm](http://www.appleacademicpress.com/nutraceuticals-and-dietary-supplements-advances-and-applications/9781771888738#bios)
[Anil K. Sharma, PhD, MPharm](http://www.appleacademicpress.com/nutraceuticals-and-dietary-supplements-advances-and-applications/9781771888738#bios)
[Rajesh K. Kesharwani, PhD](http://www.appleacademicpress.com/nutraceuticals-and-dietary-supplements-advances-and-applications/9781771888738#bios)**. April 2020: 312 pp.**
24. **Gonzales GF, Gasco M, Vasquez C, Fano D, Alarcon D.** Herbal medicine used to treat andrological problems: Americas. Chapter 5.1. **In: Herbal medicine in Andrology: An evidence-based update ED. Ralf Henkel and Ashok Argawal. 2021: 47-66.**  <https://doi.org/10.1016/B978-0-12-815565-3.00005-9>
25. Alarcón-Yaquetto DE, Paz-Aparicio V, Gonzales GF. The antioxidant effect of Peruvian maca (Lepidium meyenii). Chapter 49. In: Toxicology: oxidative stress and dietary antioxidants. Ed. V.B. Patel and V.R. Preeds. Elsevier. 2021: 519-525.

# THESES

1. **Gonzales GF**. {Rol de la serotonina en la Infertilidad Masculina}. Role of Serotonin in Male Infertility. Doctoral Thesis in Sciences with Mention in Physiology. Universidad Peruana Cayetano Heredia. Lima: 1985
2. **Gonzales GF**. Seminal Vesicles and Male Infertility: Diagnostic method and effect of treatment with clomiphene citrate. {Vesículas seminales e Infertilidad Masculina: Método diagnóstico y efecto del tratamiento con citrato de clomifeno}. Doctoral Thesis in Medicine. Universidad Peruana Cayetano Heredia. Lima:1999.

# SCIENTIFIC JOURNALS

1. **Gonzales GF**, Guerra-García R, Hum N. Hematology in natives at high altitude. I. Relationships between hematocrit and age in males at 3200 and 4340 m. Proceedings of the I Journey of Medicine and Surgery of Altitude. 1978;1: 82-88
2. **Gonzales GF**, Guerra-García R. Hematology in children natives at high altitude. II. Hemoglobin at 4340 m: Effect of procedence, altitude and age. Proceedings of the I Journey of Medicine and Surgery of Altitude. 1978;1: 166-171.
3. **Gonzales GF**, Rodríguez L, Valera J, Sandoval E, Coyotupa J, Guerra-García R. Role of serotonin in the regulation of body weight during acute exposure of male rats to high altitude. Boletín de la Asociación de Biólogos del Perú (Lima, Peru) 1980;5 (18) 19-20.
4. **Gonzales GF**, Crespo I, Guerra-García R. Body weight and adiposity during menarche at high altitude (3800 m). Boletín de la Asociación de Biólogos del Perú. (Lima, Peru). 1980;5(19): 30-31.
5. **Gonzales GF**, Coyotupa J, Guerra-García R. Serum blood levels of serotonin in children natives at sea level and at high altitude. Boletín de la Asociación Nacional de Biólogos del Peru (Lima, Perú). 1980;5(19): 32-33.
6. **Gonzales GF.** Serotonin blood levels under several physiologi­cal situations in human beings. **Life Sciences** 1980;27:647-650.
7. **Gonzales,GF**, Coyotupa J,Guerra-Garcia R (1981) Effects of serotonin and its precursors on the testicular function in male rats. **IRCS Medical Science**. 9:761
8. **Gonzales GF**, Coyotupa J, Kaneku L, Guerra-García R (1981) Rela­tionship between blood serotonin and serum growth hormone in basal conditions in natives at low and high altitude. **IRCS Medical Science** 9: 263
9. **Gonzales GF**, Cáceres C, Zavaleta A (1981) Final stature in relation to age of menarche. Boletín de la Asociación Nacional de Biólogos del Perú (Lima, Peru) 6(20): 22-23.
10. **Gonzales GF** (1981) Serotonin, precursors and antagonists: Effects on body weight in rats. Boletín de la Asociación Nacional de Biólogos del Perú (Lima, Peru) 6(20): 37-39.
11. **Gonzales GF**, Kaneku L, Coyotupa J (1981) Different response to human chorionic gonadotropin (hCG) of male rats from different ages. Boletín de la Asocia­ción Nacional de Biólogos del Perú (Lima, Peru) 6(20): 40-44
12. **Gonzales GF**, Crespo I, Guerra-Garcia R (1982) Secular change in growth of native children and adolescents at high altitude.I.Puno-Peru (3800 m) **American Journal of Physical Anthropology** 58:191-195
13. **Gonzales GF**, Mendoza L, Ruiz J, Torrejon J (1982) A demonstration that 5-hydroxytryptami­ne administered peripherally can affect sexual behavior in male rats. **Life Sciences** 31:2775-2781.
14. **Gonzales GF**, Reynafarje C (1982) Cambios del hematocrito con la pubertad. Diagnóstico (Lima, Peru). 9: 161-178
15. **Gonzales GF**, Guerra-García R (1983) Secular changes in stature of adult men of Lima (150 m), Huancayo (3280 m), Cerro de Pasco (4340 m) and Morococha (4500 m). Archivos de Biología Andina (suppl) 12: 19-25.
16. Guerra-García R, **Gonzales GF**, Crespo I (1983) Secular Increase in stature and body weight of male scholarships from different altitudes of Peru. Archivos de Biología Andina (suppl) 12: 7-18.
17. Salazar H, Díaz A, **Gonzales GF**. (1983) Intellectual Development in male and female scholarships from Lima (150 m), Huancayo (3280 m) and Cerro de Pasco (4340 m). Archivos de Biología Andina (suppl) 12: 93-104.
18. **Gonzales GF** (1983) Endocrinology at high altitude. Revista de la Asociación Nacional de Biólogos del Peru 2(1) 9-66.
19. **Gonzales GF**, Valera J, Rodriguez L, Vega A, Guerra-Garcia R (1984) Secular change in growth of native children and adolescents at high altitude. II. Huancayo-Peru (3280 m). **American Journal of Physical Anthropology** 64:47-51
20. **Gonzales GF**, García-Hjarles MA (1985) Serotonin as determinan­t of infertility in varicocele. Acta Médica Peruana 12: 92-97
21. **Gonzales GF** (1985) Selection of the sex by maternal age. Acta Médica Peruana 12: 33-39
22. **Gonzales GF**, Castillo J. Sexual Dimorphism of the complications of the newborn and of the scholarship born to aged women. Acta Médica Peruana 1985;12: 44-53
23. **Gonzales GF**, Carrillo C, Gonzalez del Riego M. Sex of newborn to aged women as risk factor. Diagnóstico (Lima, Peru) 1985;16: 146-151.
24. **Gonzales GF** (1985) Mechanisms of follicular maturation: Endocrine Aspects and clinical implicitness. Diagnóstico. 16: 39-46.
25. **Gonzales GF** (1986) Neuroendocrinology. Revista de la Asociación Nacional de Biólogos del Perú (Lima, Peru). 3 (1): 44-70
26. **Gonzales GF** Neuroendocrinology. Parte II. Revista de la Asociación Nacional de Biólogos del Perú (Lima, Peru). 1986;3 (2): 68-82.
27. **Gonzales GF**, Geng V, Seminario J, Exebio J. The female sex, the Hard Sex. I. Studies in aged pregnant women. **Diagnóstico (Lima-Peru)** 1986;17:46-51.
28. **Gonzales GF**, Isa J, Mendoza D, Saravia E, Coyotupa J (1986) Neonatal Hyperthyroi­dism: Errors in diagnosis. **Diagnóstico (Lima, Peru)** 17: 136-140.
29. **Gonzales GF**, García-Hjarles MA, Napurí R, Coyotupa J. Corrected levels of seminal fructose: A new method to assesses seminal quality**. Acta Médica Peruana** 1986;13: 31-40.
30. **Gonzales GF**, García-Hjarles MA. Serotonin: cause of infertility in varicocele. **Diagnóstico (Lima-Peru)** 1986;18: 171-175.
31. Ramírez T, Cajahuaman T, **Gonzales GF**, Carrillo C. The placenta weight at high altitude. **Diagnóstico (Lima-Peru)** 1987;19: 74-76.
32. **Gonzales GF**, Ramírez T, Cajahuamán S. Studies in newborn from aged women at Cerro de Pasco (4340 m). **Diagnóstico (Lima, Peru)** 1987;19:146-149.
33. **Gonzales GF** Somatic growth and development at high altitude. **Diagnóstico (Lima, Peru)** 1987;19: 50-58.
34. Coyotupa J, Koremblit N, Maradiegue E, Carrillo C, Noriega L, **Gonzales GF**. Syndrome of unruptured luteinized follicle. **Ginecología y Obstetricia** (Lima, Peru) 1987;31: 53-55.
35. **Gonzales GF**, Coyotupa J, Noriega L, Carrillo C, Gutierrez R, Quintana L. Hyperprolacti­nemia in the Poli-cystic Ovary Syndrome: ¿Cause or Consequence? **Diagnóstico (Lima, Peru)** 1988;21: 106-111.
36. **Gonzales GF**: Physiopathology of the Hypothalamic-Hypophysis axis**. Diagnósti­co (Lima, Peru)** 1988;21: 176-180.
37. **Gonzales GF**, García M, Velasquez G, Coyotupa J. Prolactin and Male Infertility. **Diagnóstico (Lima, Peru)** 1988;21: 47-57.
38. **Gonzales GF**, Risbridger GP, de Kretser DM. In vitro synthesis and release of inhibin in response to FSH stimulation by isolated segments of seminiferous tubules from normal adult male rats. **Molecu­lar and Cellular Endocrinology**. 1988;59:179-185
39. **Gonzales GF**, Garcia-Hjarles MA, Napuri R. Corrected seminal fructose levels: Index of secretory activity of seminal vesicles. **Archives of Andrology** 1988;21:135-142
40. **Gonzales GF**. Functional structure and ultra structure of seminal vesicles. **Archives of Andrology**. 1989; 22:1-14
41. **Gonzales GF**, Garcia-Hjarles MA, Napuri R, Coyotupa J. Blood serotonin levels and male infertility. **Archives of Andrology**. 1989;22: 85-90
42. **Gonzales GF**, Risbridger GP, de Kretser DM. The effect of insulin on inhibin production by isolated seminiferous tubule seg­ments from adult rats cultured in vitro. **Molecular and Cellular Endocrinology**. 1989;61: 209-216
43. **Gonzales GF**, Garcia-Hjarles MA, Velasquez G, Coyotupa J. Seminal Prolactin and its relationship to sperm motility in men. **Fertility and Sterility** 1989;51:498-503
44. **Gonzales GF**, Risbridger GP, de Kretser DM. Epidermal growth factor increases inhibin synthesis by isolated segments of rat seminiferous tubules. **Journal of Endocrinology** 1989;123:213-219
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46. **Gonzales GF**, Garcia-Hjarles MA, Gutierrez R, Guerra-Garcia R. The secretory activity of seminal vesicles and its relations­hip with sperm motility: Effects of infections in the male reproduc­tive tract. **International Journal of Andrology** 1989;12: 286-294.
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50. **Gonzales GF**, Velasquez G, Garcia Hjarles MA. Hypoprolactine­mia as related to seminal quality and serum testosterone. **Archives of Andrology**. 1989;23: 259-266
51. **Gonzales GF**, Bacini J, Noriega L, Prazak L, Tremolada J, Zapana M. New techniques to select motile spermatozoa for a assisted fertilization program. **Revista Médica Peruana**. 1989; 61: 15-22.
52. **Gonzales GF**, Rodriguez L, Valera J, Sandoval E, and Garcia MA. Prevention of high altitude-induced testicular disturbances by previous treatment with cyproheptadine in male rats. **Archives of Andrology.** 1990;24:201-205
53. **Gonzales GF**, Garcia MA. Blood/seminal serotonin levels in infertile men with varicocele. **Archives of Andrology.** 1990;24:193-199.
54. Quintana L, Coyotupa J, Carrillo C, Ramírez T, **Gonzales GF** (1991) Prolactinemia in women at sea level and at high altitude. **Ginecología y Obstetricia (Lima, Peru)** 36: 88-93.
55. Coyotupa J, Gonzalez S, Zorrilla R, Ramírez T, **Gonzales GF**, Guerra-García R (1991) Menarche and Menopause at high altitude**. Ginecolo­gía y Obstetricia (Lima, Peru)** 37: 43-50.
56. Whilhem J, López G, Gil K, Muro L, Donayre M, Arevalo J, Ramírez C, Carrillo C, **Gonzales GF**. (1991) Maternal Age as risk factor in the pregnancy in the jungle of Peru. Diagnóstico (Lima, Perú) 28: 80-84.
57. **Gonzales GF**, Góñez C, Kaneku L. Physiology and Pathology of Reproduction at High Altitude. **Acta Andina** 1992;1: 1-15.
58. **Gonzales GF.** Current Situation and Future of the High Altitude Institute Research (period 1987-1991). **Acta Andina** 1992;1: 117-132.
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Article type: Original Research. 2021

**OTHER PAPERS**

1. **Gonzales GF,** Aliaga J. De los Andes al Tibet: Experiencia peruana en la China en el VI Congreso Mundial de Medicina de Montaña y de Fisiología de altura. **Acta Herediana**. 2005; 37: 74-82.
2. **Gonzales GF,** Guerra-García R. [La hipoxia y los aportes peruanos a los estudios en las grandes alturas. Premio Nóbel de Fisiología y Medicina, 2019]. Hypoxia and Peruvian contributions to studies at high altitudes. Nobel Prize in Physiology and Medicine, 2019 Acta Herediana. 2020; 63(1):85-91.
3. **Gonzales GF.** Acta Herediana. 2020; 63(2)
4. **Gonzales GF**. Diagnóstico. 2020;

**CITATIONS ACCORDING RESEARCH GATE**: 3556 citaciones de las publicaciones científicas

**CITATIONS OF PAPERS (Scopus):** 4318 citations of publications

Index H Scopus: 37

**REFEREE OF INTERNATIONAL SCIENTIFIC JOURNALS**

1. Annals of Medicine
2. Asian Journal of Andrology
3. Andrologia
4. Journal of Andrology
5. Fertility and Sterility
6. Journal of Endocrinological Investigation
7. Cell Biology and Toxicology
8. High Altitude Medicine and Biology
9. BIOTECHNIC & HISTOCHEMISTRY
10. Annals of Human Biology
11. Respiratory Physiology & Neurobiology
12. Archives of Diseases in Childhood
13. World Journal of Perinatology Hospital
14. Toxicology Mechanisms & Methods
15. BMC Alternative and Complementary Medicine
16. Journal of Endocrinology
17. Theriogenology
18. Journal of Animal Physiology and Animal Nutrition
19. Journal of Sexual Medicine
20. International Journal of Andrology
21. Journal of Vascular Research
22. Food and Chemical Toxicology
23. International Journal of Dermatology
24. Gene
25. International Journal of Gynecology & Obstetrics
26. Reproductive Biology and Endocrinology
27. Pediatrics
28. Journal of Diabetes and Metabolism
29. Molecular and Cellular Biochemistry
30. Journal of Ethnopharmacology
31. Phytotherapy Research
32. Saudi Medical Journal
33. Clinical Endocrinology
34. Journal of Environmental and Public Health
35. Journal of Biomedical Sciences
36. BMC Pregnancy and Child Birth
37. Food Research International
38. Biosalud, Universidad de Caldas,Colombia
39. Case Reports in Hematology
40. Spectroscopy Letter
41. Pharmaceutical Biology
42. Evidence-Based Complementary and Alternative Medicine
43. Journal of Food Science
44. Molecular Reproduction and Development
45. Hemoglobin
46. Natural Products Research
47. Brazilian Journal of Pharmaceutical Sciences
48. PLOS One
49. International Journal of Clinical Practice
50. International Journal of Food Science and Technology
51. Annals of the New York Academy of Sience.
52. Frontiers in Ecology and Evolution
53. Reproductive Medicine and Biology
54. Therapeutics and Clinical Risk Management
55. Evolution, Medicine, and Public Health.
56. Mediators of Inflammation.
57. International Journal of Infections Disease

**EVALUATOR OF RESEACH PROJECT**

**NATIONAL**

* National Council of Science, Technology and Innovation [Consejo Nacional de Ciencias, Tecnología e Innovación] (CONCYTEC)

**INTERNATIONAL**

* Fondo Argentino Sectorial (FONARSEC), Agencia Nacional de Promoción Científica y Tecnológica (ANPCYT), Argentina
* Latin American Research Program in Sexual and Reproductive Health (PLISSER), Mexico.
* National Secretariat of Science, Technology and Innovation (SENACYT), Panama
* South African Medical Research Council. Research Management Division

**EDITORIAL COMMITTEE MEMBER**

1. Toxicology Mechanisms & Methods (2008)
2. World Journal of Medical Genetics (2011)
3. Asian Journal of Andrology (2010)
4. Journal of Blood Disorders & Transfusion (2013)

**JURY OF PRIZES**

1. Abeefe-Bristol- Myers Award. President (2007)
2. Premio a la Mejor Tesis- Asamblea Nacional de Rectores (2007)
3. Gold Medal [Medalla de Oro]. Triennial Hipólito Unanue Award [Premio Trienal Hipólito Unanue] (2009)
4. Kaelin Prize Jury President in Health Sciences [Presidente del Jurado del Premio Kaelin en Ciencias de la Salud] 2013. EsSalud.12-14 Junio 2013.

**ADVISOR OF THESES**

**University Bachelor/Graduated**

**Universidad Peruana Cayetano Heredia**

**Biology (2000-2019)**

1. Amanda Córdova
2. Javier García
3. Arturo Chung
4. Stella Hartinger
5. Norma Aspajo
6. Karina Leyva
7. Jimmy Portella
8. Marissa Riqueros
9. Gigliana Catanzaro
10. Julio Rubio
11. Carla Gonzales
12. Manuel Gasco
13. Cynthia Gonzales
14. Sonia Dávila
15. Diana Alcantara
16. Diana Zorrilla
17. Jessica Nieto
18. Johana Leyva
19. Valery Rivera
20. Diego Florián
21. Frank Peralta
22. Carmen Maldonado
23. Alisson Zevallos Concha
24. Dulce Esperanza Alarcón
25. Lizet Sánchez
26. Naomi Inoue
27. Valeria Paz
28. Patricio Tokeshi
29. Diego Fano
30. Cinthya Vásquez Velasquez
31. Valeria Valverde

**Other universities**

1. Mary Takara (UNMSM)
2. Dicina Torres (USMP)
3. Amelia Salirrosas (Universidad San Cristobal, Huamanga)
4. Vanessa Vasquez (USMP)
5. Narda Malpartida (Agraria)

**TESIS FOR MASTER**

1. Arturo Villena (México)
2. Doris de la Cruz (México)
3. Leopoldo Bejarano (Alabama University)
4. Hugo Salazar (Alabama University)
5. Ricardo Zorrilla
6. Gustavo Velasquez
7. Sadot Villarreal
8. Lilia Kaneku
9. Diana Garayar
10. Amanda Córdova
11. Manuel Gasco
12. Sandra Yucra
13. Stella Hartinger
14. Daniela Parodi
15. Carla Gonzales
16. Cynthia Gonzales
17. Jessica Nieto
18. Jeanette Bernuy
19. Jimmy Portella
20. Norma Aspajo
21. Valeria Paz
22. Diego Fano

**THESIS for DOCTOR DEGREE**

1. Carlos Carrillo (Medicine)
2. Ada del Carpio (Arequipa) (Sciences)
3. Javier García (Sciences)
4. Carla Gonzales (Sciences)
5. Manuel Gasco (Sciences)
6. Janeth Braga (Iquitos)( Sciences)
7. Lidia Sofía Caballero (Puno)(Life Sciences)
8. Martha Valdivia Cuya (Sciences)
9. María Marull (USMP)

**PATENTS**

[Gustavo Francisco Gonzales](http://patent.ipexl.com/inventor/gustavo_francisco_gonzales_rengifo_1.html), [Carla Jeannine Gonzales-Arimborgo](http://patent.ipexl.com/inventor/carla_jeannine_gonzales_arimborgo_1.html): [) extracts as adjuvants in the treatment of different conditions](http://patent.ipexl.com/topic/%29_extracts_as_adjuvants_in_the_treatment_of_different_conditions_1.html), [) extracts and atomized or lyophilized yacon (](http://patent.ipexl.com/topic/%29_extracts_and_atomized_or_lyophilized_yacon_%28_1.html)[Compositions of atomized or lyophilized maca)](http://patent.ipexl.com/topic/compositions_of_atomized_or_lyophilized_maca_%28_1.html) [Universidad Peruana Cayetano Heredia](http://patent.ipexl.com/assignee/universidad_peruana_cayetano_heredia_1.html) [July 26, 2011](http://patent.ipexl.com/date/20110726_1.html): [US07985434](http://patent.ipexl.com/US/07985434.html)

**NATIONAL AWARDS**

1. 1982: HONORABLE MENTION. Biennial Award: Hipólito Unanue. Role of Serotonin in Male Reproductive Function: Human and Animal Studies.
2. 1986: THIRD AWARD: Annual Award: Cecilia Giribaldi. Universidad Peruana Cayetano Heredia. Role of Serotonin in Varicocele.
3. 1987: THIRD AWARD: Annual Award: Cecilia Giribaldi. Universidad Peruana Cayetano Heredia. Hypoprolactinemia and male infertility.
4. 1990: HONORABLE MENTION. Biennial Award: Unanue Hippolytus in Medicine: "Inhibition Regulatory Mechanisms: A New Hormone Regulating Fertility"
5. 1990: HONORABLE MENTION: Biennial Award: Unanue Hippolytus in Surgery: "Post-oophorectomy Menopause: Clinical and Endocrinological Correlates and Treatment"
6. 1993: First Prize: Biennial Award of the High Altitude Research Institute. To the Most Productive Researcher, 1991-1993. Lima, Peru.
7. 1994: First Prize: Hipólito Unanue Biennial Award: Pharmacy and Biochemistry: Adrenarquia at sea level and in height.
8. 1994: First Prize CARLOS MONGE MEDRANO. Award for Greater Production in Scientific Research. Faculty of Science and Philosophy. Universidad Peruana Cayetano Heredia.
9. 1994: First Prize ALBERTO HURTADO ABADIA: Award for Excellence in Physiology. Awarded by cayetano Heredia Civil Association
10. 1994: FIRST ORGANON AWARD: MENOPAUSE AND CLIMATERY: Awarded by the study: Lipid Profile in post-menopausal women: Effects of caigua (cyclantera pedata).
11. 1994: FIRST ROUSSEL AWARD: Article Award: Biomedical factors that determine fertility in the high altitudes. Article published in "Andean Act". Award given by Roussell Laboratories of Peru.
12. 1996: CHILD HEALTH INSTITUTE: Award for work: Delay in viso-motor development in children born to adolescent mothers.
13. 1998. CHILDREN'S HEALTH INSTITUTE AWARD. Honorable Mention. Relationship between arterial saturation of oxygen at birth and neurological development of the newborn.
14. 1999. PERUANA SOCIETY OF ENDOCRINOLOGIA: Recognition for outstanding activity in scientific research in Human Reproduction.
15. 2000. HERSIL AWARD. Second Research Award in Pediatrics. Predictive value of arterial oxygen saturation at birth and Apgar results in the neurological development of the newborn at sea level and in height.
16. 2001. COLLEGE OF BIOLOGISTS OF PERU. Recognition for outstanding professional activity. Lima, 27 November, 2001.2003. Cobian Prize for Stimulation for Publications for Teachers of the Faculty of Science and Philosophy. 2002. Universidad Peruana Cayetano Heredia. April, 2003
17. 2003. First Prize. First International Congress of Physiology. Trujillo, Peru. December, 2003.
18. 2004. Honorable Mention. National Science and Technology Fair. Concytec. Lima, November 2004.
19. 2006. Cobian Prize for Stimulation for Publications for Teachers of the Faculty of Science and Philosophy. 2005. Universidad Peruana Cayetano Heredia. April, 2006
20. 2006. First Prize: Effect of two aqueous extracts of Lepidium meyenii Walpers (maca) as skin protector against ultraviolet (UV) radiation. C) in rats. Cynthia Gonzales, Gustavo F. Gonzales. Leon Villegas and Jorge Sánchez. Angel Maldonado Alcazar National Competition 2006
21. 2006. Third Prize: Bio-trial as a marker of the biological activity of black maca. Gustavo F. Gonzales and Vanesa Vasquez. Angel Maldonado Alcazar National Competition 2006
22. 2007. Cobian Prize for Stimulation for Publications for Teachers of the Faculty of Science and Philosophy. 2006. Universidad Peruana Cayetano Heredia. April, 2007
23. 2007. Scientific Conferences Universidad Peruana Cayetano Heredia 2007. Faculty of Science and Philosophy. First Prize: Black Maca improves memory and learning. Julio Rubio, Shilin Chen, Xin min Xiu and Gustavo F. Gonzales.
24. 2007. Best Researcher of the Peruvian University Cayetano Heredia (Category of Qualified). Lima, September 2007.
25. 2007. Illustrious Visitor. Santiago Antunez de Mayolo National University. September 29, 2007. Huaraz, Peru.
26. 2007. Honorable Mention. World Summit for Harmonization in Traditional Medicine. Alternative and Complementary. Medical College of Peru. Lima, November 2007
27. 2008. First Prize: AWARD NATIONAL INSTITUTE OF HEALTH OF THE CHILD- XVII version. 13 March 2008. Sheraton, Lima.
28. 2008. Cobian Prize for Stimulation for Publications for Teachers of the Faculty of Science and Philosophy. 2007. Universidad Peruana Cayetano Heredia. May, 2008
29. 2008. Member of Number. National Academy of Sciences. Lima, Peru
30. 2008. Quilab Award. Role of testosterone in the etiopathogenia of chronic mountain sickness.
31. 2009. Member of Number. National Academy of Medicine
32. 2009. Honor of Merit. Medical College of Peru. 6 de Octubre del 2009.
33. 2010. First Prize. Bristol Prize. Elevated testosterone levels at high altitude are associated with excessive erythrocytosis and signs and symptoms of chronic mountain sickness in adult males of Cerro de Pasco (4340 m): Factors associated with testosterone elevation.
34. 2011. Eponymous International Scientific Meeting 2011 summer Gustavo Gonzales Rengifo
35. 2011. First Prize. Area: Alternative and Complementary Medicine. Hermilio Valdizan Award. November 18, 2011
36. 2011. Second Prize. Area: Medicina Alternativa y Complementaria. Premio Hermilio Valdizan. 18 de Noviembre 2011
37. 2012. Third Post. APJ Award for Health Research. Peruvian Japanese Association. Association of different levels of hypoxemia in height on lipid profile and glycemia in males and women at 4100 m in the central Andes. Lima, March, 2012.
38. 2012. Honor of Extraordinary Merit. Medical College of Peru. October 2012.
39. 2012. Role of maca consumption (Lepidium meyenii) in populations living in the central Andes of Peru about 4000 m altitude at serum levels of inlerleucine 6 (IL-6) and health status. 1st place in the category of Specialist Physician in the National Medical Research Award of Bristol, Myers, Squibb BMS.
40. 2012. Honorable Mention.Epidemiology of Gestational Syphilis and Adverse Pregnancy Outcomes in Public Hospitals in Peru. Category of Physician Specialist in Bristol's National Medical Research Award, Myers, Squibb BMS.
41. **2013, Noviembre.** First Prize, **Congress of Integrative Medicine, Medical College of Peru. Lima, Peru.**
42. **2014.** Second Prize. Peruvian Japanese Congress. April, 2014
43. 2014. November 20, 2014. Illustrious Visitor. Rectorate, National University of the Altiplano, Puno
44. 2015. 2-4 February 2015. Second Prize. International Congress of Height Medicine "Dr. Manuel María Núñez Butrón". Medical College of Peru. Puno, Peru
45. 2015. August 2015. Second Prize. National Congress of Endocrinology. Lima, Peru.
46. 2015. September. Honorable Mention 1, IV Ibero-American Congress of Phytotherapy. Lima, Peru. Clinical trial with black maca and camu camu in Young Iquitos
47. 2015. September. Honorable Mention 2, IV Ibero-American Congress of Phytotherapy. Lima, Peru. Lidia Sofia Caballero, Ruben Flores, Harnold Portocarrero, Vilma Tapia, Gustavo F. Gonzales. MACA CONSUMPTION IMPROVES HEALTH STATUS IN MEN AND WOMEN 18 TO 65 YEARS OF PUNO INHABITANTS (3800 m)-2014-15: DOUBLE BLIND CLINICAL TRIAL CONTROLLED BY PLACEBO.
48. 2016, Abril. First Prize. III International Congress-APJ Award for Health Research.
49. 2016. Agosto. First Prize. XVI Peruvian Congress of Endocrinology.4-6 August, 2016. Lima. Peruvian Society of Endocrinology. Effectiveness of maca in the treatment of chronic mountain disease (CMM): Importance of metabolomics in the study of CMM. Gonzales GF, Alarcón D, Yupanqui I, Montero E, Caballero L, Gasco, M, Gonzales C.
50. 2016. September. Third Prize. Peruvian Congress of Pharmacology. Peruvian Society of Pharmacology and Experimental Therapeutics. Lima, Peru
51. 2016. December 14, 2016. Award "Santiago Antunez de Mayolo Gomero". Distinction of Merit. CONCYTEC, Peru.
52. 2017. October. First Prize. Peruvian Congress of Pharmacology. Peruvian Society of Pharmacology and Experimental Therapeutics. Lima, Peru.
53. 2017. November. Third National Prize for Medical Research. Medical College of Peru. Lima, Perú.
54. 2018. Adifan Award, First Prize
55. 2018. Adifan Prize, Second Prize
56. 2018. Peruvian-Japanese International Congress. Third Prize
57. 2020 Adifan Prize, Second Prize: Iron intake and iron absorption enhancers and inhibitors in children aged 6 to 59 months from Puno. Impact on Iron Body Content (mg/Kg) and the prevalence of anemia
58. 2021. Peruvian-Japanese International Congress. Third Prize

**INTERNATIONAL AWARDS**

1. 1997: LATIN AMERICAN HUMAN REPRODUCTIVE RESEARCH AND TRAINING PROGRAM (PLACIRH): International Award for the second largest contributment in reproductive health, biomedi cal area, during the XV Meeting of the Latin American Association of Investigators in Human Reproduction (ALIRH). Cusco, Peru 27-30 April, 1997, con el trabajo "Treatment of Hyper stability of Sperm chromatin with Clomiphene citrate".
2. 1998: International Recognition: Baylor College of Medicine. Group Achievement Award. NASA International Study on red blood cell adaptation upon descent from altitude.
3. 2002. International Esteban Campodonic Award: Outstanding Professional Activity for the Benefit of the Society. Glover Institute, New York.
4. 2003. ALIRH International Award. First Prize for work: Anthropological Study of Popular Beliefs related to sea urchin intake and its effect on sexual desire in the population of Ilo, Peru.
5. 2005. Visiting Profesor. IMPLAD. Beijing, China
6. 2010. Second Prize. FAO/NEPA Concurso de Investigación sobre Seguridad Nutricional y Alimentaria en América Latina y El Caribe. Brasil.
7. 2013. **Gonzales GF**, Córdova A, Vega K, Chung A, Villena A, Góñez C. Effect of *Lepidium meyenii* (Maca) a root with aphrodisiac and fertility-enhancing properties on serum reproductive hormone levels in adult healthy men. **Journal of Endocrinology** 2003; 176: 163-168. Most widely read article in the Journal of Endocrinology. April, 2013.
8. 2013. Interview for the television of Brazil O'Globo. O'Globo Reporter Program. The Superfoods of Latin America. Presented on Friday, April 12, 2013.
9. 2016. Febrero. Second Prize. Metabolomics of maca canabinoids in adults 18 to 65 years old inhabitants of height and low altitude. Caballero L., Flores R., Portocarrero H., Gonzales GF., Gonzales C., Alcántara D., Tapia V. II International Congress of Height Medicine. La Paz, Bolivia.
10. 2017. Andean Community of Nations. For Contribution and Outstanding Effort in the Field of Scientific Research. Lima, 17 de mayo de 2017.
11. 2017. First ALIRH Research Award. Clinical Area.Barranquilla, Colombia, 24 de Noviembre del 2017.

**ACADEMIC HONOURS**

1. 2014. October 30, 2014. Doctor Honoris Causa Degree. Peruvian University Los Andes, Huancayo.
2. 2015. Junio 2015. Honorary Professor. Universidad Privada Antenor Orrego, Trujillo.
3. 2017. Dr. Honoris Causa. Ricardo Palma University. March, 23, 2017. Lima