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#### **BIOGRAPHY**

Raul H. Morales-Borges completed his bachelor's degree in general sciences with a major in premedical sciences and minor in biology & sociology at the University of Puerto Rico in 1985 and his Medical Doctor degree in San Juan Bautista School of Medicine in 1990. He moved then to Michigan, USA where he performed his residence in Internal Medicine at Henry Ford Hospital in 1993 and Fellowship in Hematology/Oncology at Providence Hospital & University of Michigan Medical Center in 1995. He got certifications in cGMP, Clinical Research, Theology, and Biblical Hebrew. He obtained a Diploma in Business Management from International Business Management Institute in July 2018. He was the Medical Director of the American Red Cross in San Juan, P.R. from 2010 to 2016. He served as Director of Clinical Laboratory Improvement Amendments, Director of the Hematopoietic Stem Cell Transplantation and Cellular Therapy Program, and Immunohematology Reference Laboratory at the ARC in PR. He is the Chief Medical Officer of Ashford Institute of Hematology & Oncology since 1995, faculty member of Medicine Department of the Ashford Presbyterian Community Hospital. He is the President/Principal Investigator of New Alliance Integrative Research, LLC and the President & Medical Director of Integrative Optimal Health of Puerto Rico, PSC and MB & R's Enterprise, PSC. He joined BRCR Global on Summer 2020 as Principal Investigator and Medical Liaison of the Puerto Rico's Unit. He serves as clinical instructor for students of the Naturopathic Medicine Doctor Program of "SISTEMA UNIVERSITARIO ANA G. MENDEZ" since 2015. He has publications as well as participates as reviewer in peer-reviewed medical journals. He works as collaborator as well as principal investigator in clinical trials. He has experience as lecturer and educator with schools of medicine, pharmaceutical companies, and other institutions. He is finishing a master's degree in ministries in Christian Neuro Theology at Universidad de Neuro Teología Cristiana de Puerto Rico, Inc in Sept.2022 and he will start a Ph.D. in Christian Neuro Theology at the same institution until Sept. 2023. He completed a certification in Hyperbaric Medicine and Wound Care by Wound Care Education Partners & The Undersea & Hyperbaric Medical Society as well as Brain Health by at <https://www.ed2go.com/ucf/>.



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#### **RESEARCH & CLINICAL INTEREST**

Therapeutic aphaeresis, Immuno-hematology, Transfusion-transmitted diseases

(Infectious diseases, TRALI & iron overload),

Hematologic diseases in pregnancy, Anemia in the elderly,

Bleeding & clotting disorder, MTHFR mutation, Iron deficiency Anemia,

GI/GU/GYN & Breast Oncology, Immuno-Oncology,

Mitochondrial Correction of Cancer,

Nutritional Medicine, Adoptive Immunotherapy, Integrative Medicine,

Orthomolecular Medicine,

Hyperbaric Medicine,

Spiritual Medicine & Christian Neuro Theology

#### **PUBLICATIONS**

##### **Book Chapter:**

Morales-Borges RH, Rivera-Rodriguez KM: Research on Effectiveness of Vitamin C in the Treatment of Anemia in Patients with Chronic Diseases: A Case Study. In Trends in Pharmaceutical Research and Development. Book Publisher International. Chapter 7. Dr. Wagih Mommtaz Ghannam, (Editor). June 26, 2020. Print ISBN: 978-93-89816-96-9, eBook ISBN: 978-93-89816-97-6. DOI: 10.9734/bpi/tpd/v2.

##### **Publications and Abstracts**

González MJ, Miranda-Massari JR, McCullough PA, Marik PE, et al. An International Consensus Report on SARS-Cov-2, COVID-19, and the Immune System: An Orthomolecular View. Journal of Orthomolecular Medicine, November 1, 2022. 37(1)

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**Morales-Borges RH**, Gonzalez MJ, Duconge J, Minich DM. N-Acetyl Cysteine and Glutathione in Health and Cancer- Pharmacogenomics, Research, and Clinical Practice: Hypothesis and Review. *Altern Ther Health Med*. 2020 Dec 29:AT6336. Epub ahead of print. PMID: 33373322.

**Morales-Borges RH**. Flavonoids and ferrochel in women with iron deficiency anemia of abnormal uterine bleeding: our experience in community-based private hematology/oncology and integrative medicine practice. *Int J Complement Alt Med*. 2020;13(5):197–198. DOI: 10.15406/ijcam.2020.13.00516.

**Morales-Borges RH**, González MJ. COVID-19 pandemic and possible link with MTHFR mutations, Homocysteinemia, and Metabolic Disturbances: Short Review. *Journal of Diabetes and Endocrinology Research*. Oct 2020; 2(3):1-5. ISSN 2693-2458.

González MJ, Miranda-Massari JR, Rodriguez JR, Marcial-Vega V, Berdiel MJ, Duconge J, Hickey, Olalde J, **Morales-Borges R** et al. (2020) Antiviral Mechanisms of Vitamin C: A Short Communication Consensus Report. *J Orthomol Med*. 35(2)

**Morales-Borges RH**. Complications of COVID-19 in Cancer Patients (PPT). *Journal of Clinical Epidemiology and Toxicology* 2020. SRC/JPPT/1011.

**Morales-Borges RH** (2020) COVID-19 and Hematology/Oncology Patients: Complications and Recommendations. *J Hematol Hemother* 5: 012.

**Morales-Borges RH**, Álvarez-Rodríguez N, Medero-Falero A, González MJ. Complete overall tumor response to metronomic chemotherapy, anti-estrogen tamoxifen, high dose vitamin C, and zoledronic acid of a young adult woman with metastatic bilateral breast carcinoma: Case Report and First Statement for Morales-Borges Regimen (MBR). *Global Journal of Cancer Case Reports* July 2020; 1(2): 1-8.

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**Morales-Borges RH.** Nutraceuticals in pharmaceutical research and development: Editorial review. Case Rep Rev Open Access. May 2020;1(2):109.

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**Morales-Borges RH**, Merced C: Severe Hypertriglyceridemia in Puerto Rico Blood Donors population on 2009 to 2011. BOLETIN Asociación Médica de Puerto Rico Jul-Sep. 2012; 104 (3):15-18.

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Chelladurai M, **Morales-Borges RH**, Nayak B, Pillai R, Terebelo H, Remer S, Narang S, Loboeki C, Williams F, Drelichman A: Adoptive Immunotherapy in Renal Cell Carcinoma and Melanoma: The Experimental Phase at Providence Hospital Part II. Providence Hospital Medical Bulletin, Fall/Winter 1996; 9(1): 12-18