EDIAN ANDRES HERRERA TEQUIA, M.Sc. **CURRICULUM VITAE**

PRESENT ADDRESS

Department of Biochemistry and Molecular Biology 603 Wilson Rd, Rm. 206, Michigan State University,

East Lansing, MI 48824-6473, USA

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EDUCATION

2015-2018	M.Sc., Biochemistry, Faculty of Science, National University of Colombia,
	Colombia. Meritorious dissertation.
2009-2015	B.Sc., Biology, Faculty of Science, National University of Colombia,
	Colombia.
2008	Diploma in Biotechnology. Institute of Biotechnology (IBUM)- Faculty of
	Science, National University of Colombia-Bogotá.
2007-2008	Professional technician on biotechnological production of vegetal material.

National Learning Service (SENA). Colombia.

RESEARCH EXPRERIENCE

2019-Present	Visiting Scholar. Dr. Erich Grotewold's lab. Department of Biochemistry and
	Molecular Biology. Michigan State University. US.
2018	Researcher. Bacterial Molecular Genetics Laboratory, El Bosque University.
	Colombia.
2017	Auxiliary Student. Laboratory of Basic Research in Biochemistry, Department
	of Chemistry, Faculty of Science, National University of Colombia, Colombia.
2016-2017	Young researcher. COLCIENCIAS and National University of Colombia.
	Colombia.
2015-2017	Graduate Student. Laboratory of Basic Research in Biochemistry, Department
	of Chemistry, Faculty of Science, National University of Colombia, Colombia.

SKILLS

Molecular biology	PCR, RT-PCR, overlap PCR, gene cloning, vector design and modification.
	Genomic DNA and RNA extraction and purification.
Cell biology	Murine and avian polyclonal antibodies inoculation, production and collection.
	western blot and Immunofluorescence microscopy. Giardia duodenalis
	encystation induction and culture. E. coli cultures.
Biochemistry	Recombinant protein production. Protein expression and purification.
	Enzymatic evaluation. Analytical and preparative SDS-PAGE. Dot blot and

western blot. Study of protein-DNA interaction by Amplified Luminescent Proximity Homogeneous Assay (Alpha) and Surface Plasmon Resonance (SPR).

PEER REVIEWED PUBLICATIONS

2019 Edian A. Herrera T. Luis E. Contreras, Aravy G. Suárez, Gonzalo J. Diaz, María. H. Ramírez. GlSir2.1 of Giardia lamblia is a NAD+-dependent

cytoplasmic deacetylase. **Heliyon**. Volume 5, Issue 4. PMID: 31025022

HONORS AND AWARDS

2010	Assistant Too show Cahalanahin Acadamia Direction Deceté Venue Dialogu
2018	Assistant Teacher Scholarship. Academic Direction Bogotá Venue, Biology
2017	Department, Faculty of Science, National University of Colombia-Bogotá. Meritorious Mention on Magister Dissertation. Molecular and biochemical
2017	<u> </u>
	study of a sirtuin candidate in <i>Giardia duodenalis</i> . Chemistry Department,
2017	Faculty of Science, National University of Colombia-Bogotá. Auxiliary Student . Structural and functional study of some protozoan parasites
2017	energetic metabolism proteins: NAD ⁺ synthesis and degradation. Laboratory of
	Basic Research in Biochemistry-LIBBIQ. Chemistry Department, Faculty of
	Science, National University of Colombia-Bogotá.
2016-2017	Internship Scholarship Young Researcher. Study of a sirtuin candidate in
2010-2017	Giardia intestinalis: Determination of enzymatic activity and production of an
	immunological tool for its detection. Laboratory of Basic Research in
	Biochemistry-LIBBIQ, Chemistry Department, Faculty of Science, National
	University of Colombia and COLCIENCIAS. Colombia-Bogotá.
2016	Academic Tuition Exemption Scholarship. Chemistry Department, Faculty
2010	of Science, National University of Colombia-Bogotá.
2015-2016	Auxiliary Teacher Scholarship. Chemistry Department, Faculty of Science,
	National University of Colombia-Bogotá.
2015	Automatic Admission to a graduate program at National University of
	Colombia. For being on the best ten percent (10%) academic performance on
	the first graduation ceremony in 2015 on B.Sc. Biology, National University of
	Colombia.
2014	First place and best score on the Efi-Science test from the Faculty of
	Science for the Biology Department. Faculty of Science, National University
	of Colombia-Bogotá.
2014	Scholar of the Undergraduate Program of the Law, Faculty of Political and
	Social Sciences. National University of Colombia-Bogotá.
2012-2014	Monitor at Welfare Direction of the Faculty of Science. National University
	of Colombia-Bogotá.
2012	Scholar of Undergraduate Program of the Faculty of Science. Biology
	Department, Faculty of Science, National University of Colombia.
2008-2014	Scholarship for access to college education given due to academic
2000	performance. Pacific Rubiales Energy Foundation. Colombia-Puerto Gaitán.
2008	Best baccalaureate basic and technical secondary at the Jorge Eliecer
	Gaitán high school. Promotion year 2008. Colombia-Puerto Gaitán.

TEACHING EXPERIENCE

7/2018-12/2018	Assistant Teacher, Course Name: Laboratory of Genetics. National University
	of Colombia. Faculty of Science, Biology Department.
2/2018-5/2018	Assistant Teacher, Course Name: Laboratory of Genetic. National University
	of Colombia. Faculty of Science, Biology Department.
7/2016-12/2016	Academic Auxiliary-Academic Tuition Exemption Scholarship, Course
	Name: Laboratory of Basic Techniques in Chemistry. National University of
	Colombia. Faculty of Science, Chemistry Department.
2/2016-5/2016	Auxiliary Teacher, Course Name: Basic Biochemistry Laboratory. National
	University of Colombia. Faculty of Science, Chemistry Department.
7/2015-12/2015	Auxiliary Teacher, Course Name: Principles of Biochemistry Laboratory.

	National University of Colombia. Faculty of Science, Chemistry Department.
2/2015-5/2015	Auxiliary Teacher, Course Name: Principles of Biochemistry. National
	University of Colombia. Faculty of Science, Chemistry Department.
7/2014-12/2014	Auxiliary Student, Course Name: Genetic resources: Technic and Juridical
	Aspects. National University of Colombia. Law, Political and Social Sciences
	Faculty.
2012-2014	Monitor at Welfare Direction of the Faculty of Science. National University
	of Colombia.

PRESENTATIONS AND PARTICIPATIONS IN SCIENTIFIC EVENTS

9/2019	Symposium on Structural Biology. Attendant. Van Andel Research Institute. Grand Rapids, Michigan.
5/2019	Edian A. Herrera T, Leidy J. Vanegas C. Miguel E. Chacón. Oral
	presentation: In silico analysis of the Sir2 proteins (SIRTUINAS) from the
	Maize genome. LIV National and International Congress of Biological
	Sciences. Colombia-Monteria.
5/2019	Edian A. Herrera T, Luis E. Contreras, Aravy G. Suárez, Gonzalo J. Diaz,
	María. H. Ramírez. Oral presentation: Determination of the subcellular
	localization of sirtuin 2.1 (GlSir2.1) of Giardia lamblia. LIV National and
	International Congress of Biological Sciences. Colombia-Monteria.
11/2018	Third Colombian Congress of Biochemistry and Molecular Biology. Attendant.
	Colombia-Bogotá. Hotel Tequendama.
5/2018	First National Encounter of Young Researchers and Innovators. Attendant.
	Colombia-Bogotá. Organized by COLCIENCIAS.
10/2017	Aravy G. Suárez J, Edian A. Herrera T, Magda E. Alvarado, María H.
	Ramírez H. Oral presentation: Evaluation of the C-terminal region in the
	sirtuin 2.1 of Giardia lamblia. XVII Colombian Congress of Chemistry:
	"Aportes de la Química a los Desafíos del Siglo XXI". Industrial University of
	Santander. Venue Bucarica. Colombia-Bucaramanga.
10/2017	Edian A. Herrera T, Luis E. Contreras R, María H. Ramírez H. Oral
	presentation: Identification of sirtuin 2.1 of Giardia lamblia: a NAD-
	dependent deacetylase. 52 Colombian Congress of Biological Sciences.
	Santiago de Cali University. Colombia-Cali
11/2016	Edian A. Herrera T, Jutinico LM, Niño C, Ramírez MH. Poster presentation:
	Approach to the study of the Giardia duodenalis' Sirtuins. Second
	Colombian Congress of Biochemistry and Molecular Biology. EAFIT
0/0017	university. Colombia- Medellín.
8/2016	Edian A. Herrera T, María H. Ramírez H. Oral presentation: Developing of
	an immunological tool for the study of a Sirtuin in Giardia. LI Colombian
12/2014	congress of Biological Sciences. Quindío University. Colombia-Armenia.
12/2014	Edian A. Herrera T, Gina J. Diaz R. Oral presentation: Preliminary
	evaluation of richness, diversity and abundance of Coleoptera in four seral
	stages from a Guaviare River forest . IV Colombian Congress of Zoology. Colombia-Cartagena.
	Colonida-Cartagona.

THESIS EVALUATOR

Undergraduate thesis defense: Production and purification of the recombinant protein Ribonuclease Y (RNase Y) from *Staphylococcus aureus*. El Bosque University. Faculty of Science, Department of Biology. Colombia-Bogotá. Student: Daniel Sebastian Echeverry Sánchez.