Edgar E. Gonzalez Kozlova, PhD
Curriculum Vitae

PERSONAL DETAILS

Address	Pio Duarte Silva St. Florianopolis-Brazil
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EDUCATION

PhD in Bioinformatics `2012-2016`
Universidade Federal de Minas Gerais, Brazil.
   Thesis on B-cell epitope pattern identification and experimental validation.

Bachelor's degree in Biological Sciences `2005-2012`
Universidad Nacional Mayor de San Marcos, Perú.
   Thesis on venom spreading factors from Bothrops snakes.

SKILLS

<small>DEVELOPMENT AND BIOINFORMATICS</small>

Analysis logical models	Genome/Transcriptome, Single-cell, Molecular dynamics and biological models
	Data Mining (Regression, Random Forest, Bayes, Support Vector Machine), Network Analysis (Graphs)
Programming	Perl, Python, R, Shell/Bash
Phylogenetics	Mr.Bayes and PVclust
Software	Matlab, LATEX, Gromacs, PyMol, Modeller, JMol, blast, Knime Emboss, Clustal, tcoffee, Star, FastaQC, Trinity, Spades,printseq-lite FeaturesCount, Jalview
Servers	Remote SSH, FTP, SunFire, Altix, PBS

<small>WET-LAB</small>

Immunological	ELISA, SPOT, Western Blot
Molecular Biology	PCR, Plasmid purification, DNA-RNA extraction
Biochemical	Electrophoresis, AKTA, Chromatography

Bioterium horses	Immunization, keeping, mice, rats, rabbits, snakes, arthropods and
Field	Reptiles, arthropods and amphibians
Surgery	Mice, Snakes and venom extraction

SOCIAL

Languages	Russian (native speaker)
	Spanish (native speaker)
	English (fluent)
	Portuguese (fluent)

WORK EXPERIENCE

Grantee. Póst-Doc.   2016-present

CAPES, LIDI, UFSC, Brazil.

> Exclusive dedication as researcher. Tasks and Projects: Study of protein evolution, structure, and sequence of viral proteins; Protein design and expression in bacterial systems; Proteomic, Genomic, Transcriptomic and Single cell comparisons and data analysis.

Grantee - Researcher   2012-2016

CNPq - CAPES, Labimq, UFMG, Brazil.

> Exclusive dedication as researcher. Tasks and Projects: Computational identification of B-cell epitopes; Bioinformatic analysis of several transcriptomes; Labimq SSH server support; and responsible for disposal of toxic residues, biosecurity, and keeper of project related animals.

Researcher   2007-2012

Molecular Biology Laboratory, UNMSM, Perú

> Exclusive dedication as a researcher. Main duties: Immunochemical and biochemical assays with enzymes from several venoms; Immunization on mice, rabbits and horses; and Isolation or purification of proteins from complex samples.

Researcher   2007-2012

UNMSM - Museum of Natural History. Perú

> Venomous animals keeper, Venom extraction, surgery, feeding and health keeper for the animals. Main duties: Preparing the cages environment for the animals; Feeding and nursing; Venom extraction and surgery; and Guide for visits.

Consultant   2011-2011

ERM - International, Herpetology. Perú

> On field sampling and identification of reptiles and amphibians. Main duties: Specialized sampling of animals; and Identification for the samples.

Researcher and Consultant   2009-2011

Department of Herpetology, Museum of Natural History. Perú

> Performed identification and keeping the collection for the department. Main duties: Identification of samples; Cleaning and keeping of the collection; Consultant for external organizations; and Museum guide.

PUBLICATIONS

Toxicon, PMID:29024770 `2017`
Dan Vivas-Ruiz; Fanny E Lazo, Ph. D; Gustavo A Sandoval , Msc; Ruperto Severino; Edith F Rodriguez, Msc; **KOZLOVA, E. E. G.** *; Eladio F Sánchez, Ph.D; Carlos Chávez-Olórtegui , Ph.D; Armando Yarlequé, Ph.D ; Biochemical, biological and molecular characterization of a new L-Amino acid oxidase purified from Bothrops pictus Peruvian snake venom.*

Oxford Bioinformatics, PMID:26787662 `2016`
VIART, B. ; **KOZLOVA, E. E. G.** *; Neshich G ; Chávez -Olortegui C ; MOLINA, F. ; FELICORI, L; EPI-Peptide Designer: a tool for designing specific peptide ligand libraries based on Epitope - Paratope Interactions. Bioinformatics (Oxford. Online)*

BMC Bioinformatics, PMID:26696329 `2015`
KOZLOVA, E. E. G. *; VIART, B. T. ; AVILA, R. A. M. ; FELICORI, L. ; Chávez -Olortegui C. Classification epitopes in groups based on their protein family. BMC Bioinformatics, 2015.*

Revista de la Sociedad Químic a del Perú, ISSN:1810-634X `2014`
Delgadillo J. ; MERCEDES, P. ; F. Lazo ; RODRIGUE Z, E. ; **KOZLOVA, E. E. G.** *; SEVERINO, R. ; A. Yarleque . Purificacion y algunas propiedades de una hialuronidasa del veneno de la serpiente Bothrops brazili 'Jergon Shushupe'. Revista de la Sociedad Químic a del Perú, v. 79, p. 348-458,2014.*

Revista de la Sociedad Químic a del Perú, ISSN:1810-634X `2013`
KOZLOVA, E. E. G. *; Ortiz Cesar ; SANDOVAL, G. ; F. Lazo ; Delgadillo J. ; RODRIGUE Z, E. ; SEVERINO, R. ; A. Yarleque . PURIFICACIÓN Y CARACTERIZACIÓN BIOQUÍMICA DE UN FACTOR DE DIFUSIÓN PRESENTE EN EL VENENO DE LA SERPIENTE Bothrops atrox 'JERGON'. Revista de la Sociedad Química del Perú, v. 79, p. 3 -12, 2013.*

Rev. Peruana de Med. Exp. y Salud Pública, PMID:22858765 `2012`
Ortiz Cesar ; Lazo Fanny ; Bellido Candy ; **KOZLOVA, E. E. G.** *; Yarleque Armando. Variation of the enzymatic activity of Bothrops atrox. Revista Peruana de Medicina Experimental y Salud Pública (Impresa), v. 29, p. 198-205, 2012.*

TEACHING

Assistant Professor `2014`
UFMG, Brazil.
> Introduction to data mining techniques - Grad. School

Professor assistant `2007-2012`
UNMSM, Perú.
> Theoretical and experimental class presentations for Undergrad.

COURSES & WORKSHOPS

Workshop 2015
La Jolla Institute for Allergy and Immunology, California-USA.
Workshop on Epitope Prediction and Databases - IEDB

Short course 2014
Universidade Estadual Paulista Júlio da Mesquita Filho, Brazil.
2nd School of Molecular Biophysics

Short course 2013
IRV, Brazil.
Environmental education with focus on venomous animals handling

Short course 2011
Universidad Peruana Cayetano Heredia, Perú.
Introduction to Neurosciences

Short course 2006
In Vitro Perú, Perú.
Instrumental implementation for a biotechnology laboratory

Course 2003
IBERFOP, Perú.
Training on informatics and computer assembly

REFERENCES

Name	Prof. Daniel Santos Mansur
Address	Universidade Federal de Santa Catarina, Brazil
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