

Curriculum Vitae



Personal information

First name(s) / Surname(s) **Sergio Crovella**

Address(es) Viva Bahriya 5, Casablanca
Building 05, Zone 66, Street 140
PO Box 1883
Doha State of Qatar

Telephone(s) +974.44034547 Mobile: +974.50536757 (Whatssup)

E-mail sgrovella@qu.edu.qa; crovelser@gmail.com (personal email)

Nationality Italian, QID 26138000106; Passport: YC2429548

Date of birth 31/10/1961

Gender male

Work experience

Fix positions in bold; contracts, fellowships, post doc in italics

Dates	1 st October 2025
Occupation or position held	Full Professor Cell and Applied Biology
Main activities and responsibilities	Teaching: Cell Biology, Biology Research: Molecular basis of Auto-inflammatory Diseases; bioinformatics; Chemoinformatics
Name and address of employer	University of Ferrara, Italy
Type of business or sector	Public
Dates	August 2025-current time
Occupation or position held	Full Professor Biomedical Sciences
Main activities and responsibilities	Teaching: Immunochemistry, bioinformatics, supervision of undergrad, Master and PhD students.
Name and address of employer	Research: Chemoinformatics, Drugs design Health Cluster Qatar University, Doha, State of Qatar
Type of business or sector	Public
Dates	August 2023-June 2025
Occupation or position held	Research Full Professor
Main activities and responsibilities	Responsible pre-clinical cancer research: cell and molecular biology, animal genomics, bioinformatics, drug discovery.
Name and address of employer	Laboratory of Animal Research Center (LARC) , Qatar University, Doha, State of Qatar
Type of business or sector	Public
Dates	October 2020-2023
Occupation or position held	Full Professor of Genetics
Main activities and responsibilities	Research: population genetics, plant genetics, molecular evolution and phylogenesis, bioinformatics
Name and address of employer	Teaching: Human Biology, Biology I, Genetics. Department of Biological and Environmental Sciences, College of Arts and Sciences University of Qatar P.O. Box 2713, Doha, State of Qatar

Type of business or sector	Public
Dates	2007-2020
Occupation or position held	Full Professor Human and Medical genetics
Main activities and responsibilities	Genomic variability of host factors in AIDS: role of antimicrobial peptides in resistance to and in disease course of lentivirus infections; Host response to Emerging virus infections (i.e. ZIKA); Evolutionary genomics of native plants from Pernambuco aimed at novel drug discovery. Population genetics and Human migrations. Plant phylogenesis and evolution of the plant immune system. Bioinformatics and plant innate immunity peptides design
Name and address of employer	Department of Genetics. Federal University of Pernambuco Av. Prof. Moraes Rego, 1235 - Cidade Universitária, Recife - PE - CEP: 50670-901 (Brazil).
Type of business or sector	Public Health
Dates	2004-2005
Occupation or position held	Visiting Scientist Molecular genetics
Main activities and responsibilities	Application of GeneFlex technology to the screening of genetic polymorphisms associated with HIV-1 infection and AIDS progression in children HIV-1.
Name and address of employer	Federal University of Pernambuco and IMIP. Av. Prof. Moraes Rego, 1235 - Cidade Universitária, Recife - PE - CEP: 50670-901 (Brazil). CNPq Grant 300873/2004-2.
Type of business or sector	Public Health
Dates	2001-2020
Occupation or position held	Biologist (Italian Board License for Diagnostics n. EA_018569)
Main activities and responsibilities	Diagnostic of Mendelian and Multifactorial Diseases, HLA typing, Development of diagnostic kits, Cell and molecular biology to unravel novel eui-pathogenetic mechanisms involved in auto-inflammatory diseases.
Name and address of employer	Genetic Service. IRCCS Burlo Garofolo. Via dell'Istria 65/1 34137 Trieste (Italy)
Type of business or sector	Public Health
Dates	1998-2020
Occupation or position held	Associate Professor Clinical Pathology
Main activities and responsibilities	Responsible for the Molecular genetics Laboratory: genetics of the complex traits, immunogenetics, molecular cytogenetics, gene expression analysis, high-throughput SNPs genotyping, human population genetics. Teaching activity: human and medical genetics, recombinant technologies at the Faculty of Medicine (Course of Medicine, Biotechnology, Lab technician): didactic activity around 150 hours classes per year.
Name and address of employer	Immunogenetics and Immunobiology Unit. Department of Medical Surgical and Health Sciences. University of Trieste. Via dell'Istria 65/1 34137 Trieste (Italy)
Type of business or sector	Public, University
Dates	1996-1998
Occupation or position held	R&D in situ PCR and sales manager
Main activities and responsibilities	Research and Development in situ PCR and real time PCR. Product Manager PCR products; sales manager PCR
Name and address of employer	Perkin Elmer Applied Biosystems Via Tiepolo 24 20052 Monza MI (Europe) 850 Lincoln Centre Drive Foster City, CA 94404 (United States)
Type of business or sector	Private, Biotechnology
Dates	1995-1996
Occupation or position held	Curator of non-human primates and mammals
Main activities and responsibilities	Non-human primates and mammals' classification
Name and address of employer	Regional Museum of Natural Science, Turin (Italy). Via Giolitti, 36, 10123 Torino
Type of business or sector	Public, "Regione Piemonte"
Dates	1993-1995
Occupation or position held	Post-doctoral fellowship "Non-human primates mitochondrial DNA evolution"
Main activities and responsibilities	Molecular evolution of non-human primates; mitochondrial DNA sequencing; non-human primates highly repeated DNA chromosomal localization

Name and address of employer	Department of Animal Biology (Prof. Giuseppe Ardito) University of Turin (Italy). Via Accademia Albertina, 13 - 10123 Torino (Italy)
Type of business or sector	Public, University, Italian Ministry of Research
Dates	1991-1993
Occupation or position held	Post doctoral fellowship "Etude de la phylogénèse et de la génétique des populations des primates par les techniques de biologie moléculaire
Main activities and responsibilities	Molecular phylogenesis of non-human primates; FISH and molecular cytogenetics
Name and address of employer	Laboratory of Embryology (Prof. Y. Rumpler and Prof. P. Gerlinger). Université Louis Pasteur, Faculté de Médecine, Institut d' Embryologie, 11 rue Humann, F-67085 Strasbourg cedex
Type of business or sector	European Community grants (The Science Programme DXII)
Education and training	
Dates	2017
Title of qualification awarded	Specialization in Molecular and Cell Biology at Recife (Brazil).
Principal subjects/occupational skills covered	Molecular biology, cell models of autoimmune or autoinflammatory diseases. Stem cell models. CRISPr/Cas techniques associated to gene editing. Signal transduction pathway bioinformatic analysis. RNA Sequencing data mining and analysis.
Name and type of organisation providing education and training	Conselho Regional de Biologia (Brasil). Cédula de Identidade Profissional de Biólogo n. 85.111/05D
Level in national or international classification	Residence in Molecular and Cell Biology
Dates	2014
Title of qualification awarded	Specialization in Immunology at Recife (Brazil).
Principal subjects/occupational skills covered	Clinical Pathology, HLA typing and immunogenetics, Complement related pathologies, Cell Death (Apoptosis, Pyroptosis, Necroptosis) in the context of autoinflammatory diseases, management of HIV infected patients, immunologic profiling.
Name and type of organisation providing education and training	Conselho Regional de Biologia (Brasil). Cedula de Idendidade Profissional de Biologo n. 85.111/05D
Level in national or international classification	Residence in Immunology
Dates	2013
Title of qualification awarded	Specialization in Genetics at Recife (Brazil).
Principal subjects/occupational skills covered	Human Molecular Genetics, Population Genetics, Mendelian and Multifactorial diseases, genetic counselling, Next Generation Sequencing data management, forensic genetics and ancient DNA
Name and type of organisation providing education and training	Conselho Regional de Biologia (Brazil), Cedula de Idendidade Profissional de Biologo n. 85.111/05D
Level in national or international classification	Residence in Genetics
Dates	1992
Title of qualification awarded	PhD Molecular Anthropology
Principal subjects/occupational skills covered	Thesis: Non-human primates Highly repeated DNA analysis: taxonomic revision of the family Lemuridae. Molecular evolution, phylogenesis, molecular cytogenetics and comparative cytogenetics.
Name and type of organisation providing education and training	Anthropology Unit, Faculty of Science, University of Florence (Italy). Embriology Unit Faculty of Medicine University L. Pasteur (France)
Level in national or international classification	PhD Studies, post-graduate training
Dates	1991

Title of qualification awarded European Certificate of Primatology
 Principal subjects/occupational skills covered Dissertation: Chromosomal evolution of non-human primates
 Name and type of organisation providing education and training University of Strasbourg (France), University of Bochum (Germany)
 Level in national or international classification Specialistic University Training: Certificat d'Université (duration 1 year)

Dates 1988

Title of qualification awarded Master Degree Natural Science with high honour (110/110 lode)
 Principal subjects/occupational skills covered Thesis: Oral Pathology of non-human primates
 Paleontology, geology, anthropology, comparative cytogenetics
 Name and type of organisation providing education and training Department of Animal Biology. University of Pavia (Italy)
 Level in national or international classification "Laurea", Higher education graduation

Dates 1985

Title of qualification awarded Master Degree Biological Science with high honor (110/110 lode)
 Principal subjects/occupational skills covered Thesis: Analysis of occlusion curves in non-human primates
 Phylogenesis, zoology, molecular biology, human cytogenetics, mutagenesis
 Name and type of organisation providing education and training Department of Animal Biology. University of Turin (Italy)
 Level in national or international classification "Laurea", Higher education graduation

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s) **English, French, Spanish, Portuguese, Malay**

Self-assessment
European level ()*

English

French

Spanish

Portuguese

Malay

Understanding		Speaking		Writing			
Listening		Reading		Spoken interaction		Spoken production	
	C1		C1		C1		C1
	C2		C2		C2		C1
	C1		C1		B2		B2
	C2		C2		C2		C2
	A1		A2		A1		A2

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences Competences in management of human resources and interconnecting people. Social work performed in Africa (Ivory Coast, Niger, Mali and Burkina Faso) consisting in medicaments delivery in remote areas and technical support for the basic hematological analysis development at Abidjan Hospital. Capacity of attracting funds in Brazil for health and school education, participation to educational programs in impoverished areas of Recife and Pernambuco. Organization of a massive screening for the identification of celiac subjects at Recife and rural areas of Pernambuco (Goiana). Social Support for HIV infected patients from Recife under the supervision of the Association of HIV patients from Pernambuco.

Organisational skills and competences Since the post-doctoral formation Sergio Crovella (SC) experienced the management of national and international research teams, coordinating their activity both scientifically and also providing funds for the development of the research and managing the economic resources of the team. During the post doc SC organized and coordinated field research work involving the collection of biological samples (mostly hairs or blood) from non-human primates as well as molecular analysis in

Malaysia (collaboration with Dr. S. Vellayan, Zoo Negara Malaysia and University of Malaya), and Indonesia (collaboration with Dr. Dondin Sayuthi, University of Jakarta). Sub-fossil lemur collection and ancient DNA extraction has also been organized in Madagascar in collaboration with the University of Antananarivo (Prof. Clement Rabarivola).

More specifically, during the three years spent in Perkin Elmer Applied Biosystems, SC coordinated international research teams focused on the development of new technologies (in situ PCR and real time PCR), managed the human and financial resources dedicated to the projects and planned the investments as well as the marketing positioning of the products of the research. The experience as sales manager for PCR products and the coordination of a team of commercial vendors represents an added value since a considerable market (around 9.000.000 USD per year) was successfully managed.

The experience maturated in a private company was useful for the successive management of human and financial resources in public organizations such as the University of Trieste and IRCCS Burlo Garofolo where since 1998 SC worked coordinating teams involved in research projects and diagnostics of Mendelian and Complex diseases.

The research group coordinated at the Genetic Service of IRCCS Burlo Garofolo is constituted by 3 post docs, 3 PhD students and 6 undergraduate students, focusing on the genetic component of autoimmune diseases, host-virus interaction (with special attention to HIV), immunology and immunogenetics of complex diseases, pharmacogenetics, development of new molecular diagnostic markers, innate immunity, antimicrobial peptides. The diagnostic team is constituted by 3 biologists and molecular diagnosis is performed for cystic fibrosis, hemocromatosis, chromosome Y micro-deletions, coagulation defects, Gilbert syndrome, congenital deafness etc. moreover HLA typing for celiac disease, type I diabetes, autoimmune thyroiditis is also performed. The two groups are networked and, in spite of having two different budgets managed by SC they collaborate together with common projects (i.e. genetic component of celiac disease). The research group of the IRCCS Burlo Garofolo is well networked with the research teams of the host Institution also coordinated by SC.

SC is also the responsible for the “Bioprospeccao e Biotecnologia de Defensinas e Proteínas” (Bio-prospection and Biotechnology of defensins and proteins) research group at the Federal University of Pernambuco (Recife) and involved as senior researcher in other 3 groups (all officially certified by the CNPq) namely “Grupo de Pesquisa em Imuno-Reumatologia – GPIR” (Research Group on Immuno-Reumatology), “Tecnologias Moleculares em Análises Genéticas de Plantas” (Molecular Technologies in Plant Genetic Analysis), “Variabilidade Genética Humana” (Human genetic Variability). The networking between the origin and host institution research team is complete with several exchanges of post docs and PhD students.

Technical skills and competences

- Department of Animal Biology University of Turin (Italy): ecology and evolution of non-human primates; morphology and taxonomy of non-human primates; cytogenetic, basic recombinant technologies; biochemistry.
- Department of Animal Biology University of Pavia (Italy): anthropological methods; statistics, paleontological methods; analysis of oral pathology in humans and non-human primates; software for phylogenesis (PAUP, UPGMA, PHYLIP)
- Museum of Natural Science Turin (Italy): methods for systematic classification of mammals
- Laboratory of Embryology, University L. Pasteur (France): recombinant DNA technologies, molecular cloning, FISH, comparative cytogenetic, histology and tissue in situ hybridization.
- Laboratory of Cytogenetics, Department of Animal Biology University of Turin (Italy): human cytogenetics and analysis of chromosome rearrangements associated with human pathologies. Mutagenesis techniques. Mitochondrial DNA sequencing.
- Zoo Negara Malaysia: field work for primates' non-invasive biological samples collection; animal manipulation, blood and biopsies sampling.
- University of Antananarivo: Ancient DNA extraction from teeth and bones of sub-fossil lemurs
- Perkin Elmer-Applied Biosystems (Foster City, CA): in situ PCR, PRINS, quantitative real time PCR, food quality control by PCR, sales management; PCR products market positioning; dissemination of the results and seminar activity. Human resources formation.
- Genetic Unit, Department of Reproductive Developmental Science and Public Medicine. University of Trieste. Management of the genetic component of complex diseases, immunogenetic techniques, innate immunity genes and SNPs genotyping. Pharmacogenetic techniques Didactic activity, academic formation of undergraduate, graduate and PhD students.
- Genetic Service IRCCS Burlo Garofolo. Development of diagnostic methods for the detection of mutation associated with Mendelian and multifactorial diseases; development of real time PCR based (allele specific probes or Melting Temperature Assay) kits for the detection of

genetic variants associated to Gilbert Syndrome, Chromosome Y microdeletions, hemochromatosis (collaboration with Euroclone private company) and for the detection of HLA QD2 and DQ8 haplotypes associated with celiac disease; SNPs-chip design for Illumina Veracode platform;

- Immunogenetics Laboratory, IRCCS Burlo Garofolo. Development of cell models mimicking auto-inflammatory diseases. Biochemical and genetic in vitro models of Mevalonate Kinase Deficiency. Stem cells isolation from hair outer root sheath (ORS).
- Laboratory of Virology (LIKA), Federal University of Pernambuco and Instituto de Medicina Integrada Prof. Fernando Figueira (IMIP), Recife (Brazil). ELISA, ELISPOT techniques, basic cytofluorimetry, cell cultures, Design of Golden Gate Illumina assays for high throughput SNPs genotyping
- Laboratory LIM-56, University of San Paolo (Brazil). HIV culture, dendritic cells culture, analysis of whole genome expression profiles with Affymetrix platform.
- Laboratory of Virology Federal University of Rio de Janeiro (Brazil). Synthetic HIV construction, HIV sequencing and basic viral phylogenesis.
- Laboratory of Pathology, Federal University of Pernambuco, Recife (Brazil). Development of a home-made informatic platform to analyze and manage OMICs findings.
- CITI Program 2024: Animal Biosafety/Biosecurity. Qatar University
- CITI Program 2024: Working with Mice in Research Settings. Qatar University
- 2024 Human Care and Use of Laboratory Animals (HCULA) certificate. Qatar University.
- 2024 The Jackson Laboratories: certificate Laboratory Mouse basic

Computer skills and competences

Microsoft Office (Word, Excel, Power Point); "R" statistical package; PHYLIP and MEGA software for phylogenies; EpiInfo database and statistics; Software and web tools for genome analysis: SNPs Browser, Quick SNP, Tagger, HapMap, Genome Browser, Gene Cards, Panther. Software for DNA sequences management: Chromas, 4peaks, ClustalX, Mega. Bioinformatics. 2023: Python for Genomic Data Science: John Hopkins University, US.

Teaching Activity

Undergraduate and post graduation (PhD or medical residence)

Course	Integrated Course	Faculty	University	Year
<i>Human genetics</i>	<i>Biology and Genetics</i>	Medicine	Trieste	1998/2014
<i>Molecular Genetics</i>	<i>Genetics</i>	Medical Biotechnology	Trieste	1999/2008
<i>Recombinant Technologies</i>	<i>Biology and Genetics</i>	Laboratory Technicians	Trieste	
<i>Human genetics</i>	<i>Biology and Genetics</i>	Dentistry	Trieste	2000/2008
<i>Human genetics</i>	<i>Biology and Genetics</i>	Physiotherapy	Trieste	2004/2005
<i>Medical genetics</i>	<i>Internal; Medicine</i>	Medicine	Trieste	2000/2006
<i>Medical genetics</i>	<i>Genetics</i>	Medical Biotechnology	Trieste	2004/2005
<i>Molecular Genetics</i>	<i>Genetics</i>	Biology	Torino	1996/1998
<i>Clinical Pathology</i>	<i>Pathology</i>	Laboratory Technicians	Trieste	2014/2018
<i>General Pathology</i>	<i>Pathology</i>	Medicine	Trieste	2014/2018
<i>Immunotherapy</i>	<i>Pathology</i>	Laboratory Technicians	Trieste	2017/2018
<i>Human Molecular Pathology</i>	<i>Pathology</i>	Medicine	Trieste	2018/2019
<i>Medical Genetics</i>	Biology and Genetics	Medicine	Recife	2014/2018
<i>Human Molecular Genetics</i>	<i>Genetics</i>	Biomedicine	Recife	2008/2018
<i>Immunogenetics</i>	<i>PhD program in Development Sciences</i>	Medicine	Trieste	2010/2018
<i>Molecular Pathology</i>	<i>PhD program in Health Sciences</i>	Biomedicine/Medicine	Recife	2012/2018
<i>Laboratory Medicine</i>	<i>PhD program in Health Sciences</i>	Biomedicine/Medicine	Recife	2014/2018

<i>Clinical Pathology</i>	<i>Residence in Pediatrics</i>	Medicine	Trieste	2014/2018
<i>General Pathology</i>	<i>Residence in Gastroenterology</i>	Medicine	Trieste	2016/2018
<i>Immunology and Pathology</i>	<i>Residence in Medical Genetics</i>	Medicine	Trieste	2015/2018
<i>BIOL101</i>	<i>Biology</i>	Biology, Environmental Sciences	Qatar University Doha	Spring 2021 Fall2021
<i>BIOL110</i>	<i>Human Biology</i>	Biology, Environmental Sciences	Qatar University Doha	Spring 2021 Fall2021 Spring 2022, Fall 2022, Spring 2023
<i>BIOL212</i>	<i>Genetics</i>	Biology, Environmental Sciences	Qatar University Doha	Spring 2021 Fall2021 Spring 2022, Fall 2022, Spring 2023
<i>BIOL699</i>	<i>PhD Thesis</i>	Biology, Environmental Sciences	Qatar University Doha	Spring 2021- Fall 2024
<i>BIOL602</i>	<i>Lab Rotation I (Bioinformatics)</i>	Biology, Environmental Sciences	Qatar University Doha	Fall 2024
<i>BIOL 609</i>	<i>Molecular Genetics</i>	Biology, Environmental Sciences	Qatar University Doha	Spring 2025

Academic Advisories

Academic Advisory - concluded (Master's thesis - primary advisor) n. 17

Academic Advisory - concluded (Ph.D. thesis - secondary advisor) n.6

Academic Advisory - concluded (Ph.D. thesis - primary advisor) n.23

Academic Advisory - concluded (Improvement/Specialization Courses Monography) n.1

Academic Advisory - concluded (Course Conclusion Dissertation) n.7

Academic Advisory - concluded (scientific initiation) n.9

Academic Advisory - concluded (post doctorate supervision) n.10

Academic Advisory - current (Master's thesis - advisor) n.2

Academic Advisory - current (Ph.D. thesis - advisor) n. 4

Academic Advisory - current (scientific initiation) n.1

Academic Advisory - current (post doctorate supervision) n.6

Writing books and cartoon design for kids as hobby

Artistic skills and competences

Other skills and competences

Sports: soccer, volleyball, water-polo, kayak

Driving licence

Italian driving license type "B"; Brazilian driving license; Qatar Driving Licence

Additional information

List of Grants Obtained as LPI or PI

1. 1999 Italian Ministry of Research (PRIN 9906185558_003). Gluten free diet as prevention of diabetes in relatives of diabete patients ICA positive.

2. 2000 Italian Ministry of Research (PRIN M05021331_001). Plasticity of the human genome: analysis of centromeric and pericentromeric regions.
3. 2001 Italian Ministry of Research (PRIN 2001067748_004). Susceptibility of IgA nephropathy: linkage and genome wide studies in familiar and sporadic patients.
4. 2001 Italian Ministry of Research (FIRB RBNE013JYM_002). Identification of new diagnostic markers for IgA nephropathy.
5. 2001 Italian Ministry of Research (FIRB RBNE01AY9E_003). Identification and functional characterization of new intracellular signaling proteins involved in cardiovascular diseases.
6. 2001 Italian Ministry of Research (FIRB RBNE01N4Z9_010). Lukocyte ectoenzymes and their involvement in human Pathologies.
7. 2002 Italian Ministry of Research (PRIN 2002065858_002). Genetic polymorphisms of innate immunity genes involved in celiac disease.
8. 2002 Italian Ministry of Health (RC2002, L7). Innate immunity gene polymorphisms involved in HIV-1 infection and AIDS progression in children.
9. 2003 Italian Ministry of Research (PRIN 2003057187_002). Evolution of the defensins and LL-37 cathelicidin in non-human primates finalized to new therapeutic applications.
10. 2003 Italian Ministry of Health (RC2003,L7). CIAS1 gene mutation scanning and analysis of the inflammatory response in patients affected by CINCA or recurrent fever.
11. 2003 Italian Ministry of Health (PF2003 L7). Genetic and Epidemiology of Exostosis
12. 2003 European Union (CEE) EN-D-1-FP5RTD Genetics of IgA Nephropathy
13. 2004 Italian Ministry of Health (RC2004, L2). Innate immunity genes mutation scanning in patients characterized by recurrent infections.
14. 2004 Italian Ministry of Health (PF2004), Genetic Factors involved in the prognosis of IGAN patients after Transplantation.
15. 2005 ASSOCIAZIONE ITALIANA PER LA RICERCA SUL CANCRO (AIRC). New approaches for studying genetics, early molecular diagnosis and prognostic factors relevant for HCC
16. 2005 CNPq (Brazil, 300873/2004) "GENEFLEX" Technology for high throughput screening of genetic polymorphisms involved in pediatric AIDS.
17. 2005 Italian Ministry of Health (RC2005, L2). β defensins and immunovaccines.
18. 2006 FACEPE and FINEP (Brazil, DCTI N° 05/2006). Genomic variability of host factors in AIDS: role of antimicrobial peptides in resistance to infection and in disease course of lentivirus infections.
19. 2007: Ruolo di SNPs a carico di geni dell'Immunità innata nella modulazione del fenotipo polmonare in pazienti affetti da Fibrosi Cistica. RC37/07 L2 (IRCCS Burlo Garofolo).
20. 2007 Regione FVG. Rete Regionale per la Ricerca e sviluppo di nuovi Agenti terapeutici Antinfettivi.
21. 2008: Vaccino terapeutico per l'infezione da HIV-1 con cellule dendritiche autologhe pulsate con virus autologo inattivato. RC07/08 L2 (IRCCS Burlo Garofolo).
22. 2008 Fondazione per la Ricerca per la Fibrosi Cistica: Genetic factors involved in the innate immunity influencing pulmonary disease in Cystic Fibrosis patients.
23. 2008 FACEPE (Fundação de Amparo pela Ciencia e Tecnologia). Fatores de riscos preditivos envolvidos com a Diabetes Mellitus do tipo 1: um modelo auto-imune usando novos marcadores moleculares com a criação de um banco de amostras biológicas e informatizado.
24. 2008 CNPq. Avaliação dos perfis de expressão gênica e screening "genome wide" em pacientes HIV positivos submetidos à imunovacina de células dendríticas: determinação de um perfil genômico de resposta ao tratamento CNPq 474566/2008-0.
25. 2009 Fondazione per la Ricerca per la Fibrosi Cistica: Influence of genetic factors in the progression of lung disease in cystic fibrosis.
26. 2009 REDE ELINOR: Uso da Luminescência Exacerbada de Nanocompósitos Metal/(Polímero Condutor) Em Marcadores Biológicos CNPq CAPES (Brazil).
27. 2010 Italian Ministry of Health RF 40H85 (Bando AIDS): Autologous dendritic cells immunotherapy in HIV positive patients: a genomic approach.
28. 2010 CNPq Bioprospecção e biotecnologia de defensinas e proteínas associadas em plantas nativas e cultivadas.
29. 2010 CNPq (Recife, Brazil). Polimorfismos dos genes codificantes pelas proteínas dos inflamassomas: Associação com a susceptibilidade ao desenvolvimento do Lúpus Eritematoso Sistêmico e Artrite Reumatóide e a gravidade das doenças.
30. 2010 FACEPE APQ-1515-2.02/10. Diagnóstico Molecular e Screenig neonatal dos Fatores Genéticos de Risco Envolvidos no Diabetes Mellitus Tipo 1 em Pernambuco.
31. 2010 FACEPE APQ-0757-2.02/10. Papel dos genes da imunidade inata na resposta à vacina terapêutica com células dendríticas contra o HIV-1.

32. FINEP (CT-INFRA) Construction of a new Research Center, the NGDF "Núcleo de Genética de Doenças Complexas e Farmacogenômica", dedicated to complex and infectious diseases and Pharmacogenomics at Recife (Brazil)
33. 2011 "Talents for an International House" within the framework of the 7th Research & Development Framework Programme PEOPLE – Marie Curie Actions – COFUND (Co-Funding of Regional, National and International Programmes).
34. 2011 FRA project, Friuli Venezia Giulia (FVG) Region (Italy) Genetic screening for the identification of individuals at risk of mesotelioma after asbestos exposure.
35. 2011 Italian Ministry of Health, RC06/11 Defensin and innate immunity genes as candidate genetic factors for the susceptibility to HPV infection and HPV correlated cancer.
36. 2012 FACEPE (Fundação de Amparo pela Ciência e Tecnologia). Perfil genético de Marcadores de Ancestralidade (AIMs) e fatores da imunidade na população do estado de Pernambuco.
37. CNPq 476713/2012-9 Papel do inflamassoma na resposta imune ao vírus da imunodeficiência humana -1 (HIV-1).
38. 552195/2011-1 CT - AÇÃO TRANSVERSAL / Chamada Pública MCT/CNPq/MEC/CAPES - Ação Transversal nº 06/2011 - Casadinho/Procad. Imunomodulação em Doenças Auto-imunes.
39. 2013 CAPES (Brasile) Edital Biologia Computacional nº 051/2013 PI Rede INTESYS: Biologia Sistêmica no Estudo de Função Genica em Interações Bioticas.
40. 2015 FRA project, Friuli Venezia Giulia (FVG) Region (Italy) and Italian Ministry of Education: Laser Therapy and Immunological Response in oncologic patients with Oral Mucosites.
41. 2016. Processo: 440371/2016-3 Título do Projeto: FATORES GENÉTICOS E MOLECULARES ENVOLVIDOS NA PATOGÊNESE DA INFECÇÃO POR VÍRUS ZIKA EM GESTANTES Chamada MCTIC/FNDCT-CNPq/ MEC-CAPES/ MS-Decit / Nº 14/2016 - Prevenção e Combate ao vírus Zika.
42. 2017 Italian Ministry of Health. "Ricerca Corrente Project" RC15/17 Laser Therapy in pediatric oncologic patients with oral mucositis: analysis of molecular mechanisms involved in pain reduction
43. 2018 EraPerMed RESEARCH PROJECTS ON PERSONALISED MEDICINE – SMART COMBINATION OF PRE-CLINICAL AND CLINICAL RESEARCH WITH DATA AND ICT SOLUTIONS. ID Number: ERAPERMED2018-137 Title: Identification of markers for personal phenotyping in Acne Inversa.
44. 2018 CNPq. Projeto Universal n. 430353/2018-9. Análise biomolecular para medicina personalizada em pacientes com Hidradenite Supurativa. Personalized medicine for Brazilian patients suffering Acne Inversa.
45. 2019 Italian Ministry of Health. Women and adolescent health "5 per mille" grants. Title: Analysis of follicular fluid and seminal plasma in individuals with infertility.
46. ISE-EMH (English: Italian-Slovenian Ecosystem for Electronic and Mobile Health). Interreg Projects 2019.
47. QUST-2-CAS-2021-499 Bioinformatic approach to discover plant-derived antimicrobial peptides: in silico selection/engineering and in vitro activity tests against MERS-CoV and SARS-CoV-2.
48. QNRF UREP28-115-1-025 Calotropis procera Qatari plant extracts to limit fungi infections in post-harvested vegetables and fruits: an in vitro study.
49. QUST-2-CAS-2021-295 Anti-inflammatory effect of Calotropis procera stem bark extract on pulmonary artery endothelial cells.
50. QUST-2-CAS-2021-129 Calotropis procera Qatari plant ethanolic extracts to limit fungi infections in post-harvested vegetables and fruits.
51. ID 491 Post-Doc Initiative Program 2022. Plants Antimicrobial peptides in silico discovery and engineering: development of novel molecules to fight pathogens.
52. ID 128 GA Topic Application 2022. Bio-Hub, a high-throughput platform for OMICs data integration.
53. UREP29-040-1-012 Genetic association of MLIP variants with different laminopathies in the Qatari population
54. UREP29-161-3-052 Toxicity Evaluation of Bioinspired Short Antimicrobial Peptides on Embryonic Development of Zebrafish
55. QUST-2-CAS-2022-214. Elucidation of MLIP mediated metabolic remodeling associated congenital muscular dystrophy and rhabdomyolysis.
56. MRC-01-22-103. Impact of Ambient Air Pollution on Inflammatory Biomarkers in Selected Respiratory Diseases in Qatar
57. RC-2022.1 Italian Ministry of Health. Advanced analyses to investigate the effects of endocrine-disrupting molecules and micro-particulate on fertility.
58. RC-2023 Italian Ministry of Health. Exploiting Photobiomodulation Therapy on cellular skin models to evaluate the analgesic effect: potential translational application in pediatric skin disorder.
59. CG-LARC23/24 Collaborative Grant. MousE model to Mimic the effects of heavy metals on atopic dermatitis: an in vivo study to unravel the etio-pathogenesis of the disease and the Exposome effects. E-MOUSE

60. EADV (European Association Dermatology Venereology)-2023. ENIGMA: HidradEnitis suppurativa syndromes: decrypting the etio-pathogenesis enigma to improve tailored diagnosis.
61. CNPq- MCTI N° 10/2023. Brazilian National Research Council. Integrated multi-omics to decipher the etiopathogenesis of hidradenitis suppurativa syndromes.
62. APQ-2116-2.02/24. Foundation for the Support of Science and Technology of the State of Pernambuco (FACEPE), Recife. Computational Platform Applied to Innovation in Drug Discovery.
63. RC-2024-2025. Italian Ministry of Health. Epidermal Barrier Dysfunction: Uncovering the Impact of Genetic Variants to Identify Novel Druggable Targets.

Patents-Inventions

- US Invention D2024-0007: Novel Antimicrobial Bioactive Molecule
- US Invention QU2024-007: Bioinspired Anti Breast Cancer Antimicrobial Peptides
- US invention 432743.10386: Anticancer Engineered Bioactive Molecule

Listed in the Top Italian Scientists

https://www.topitalianscientists.org/tis/45456/Sergio_Crovella_-_Top_Italian_Scientist_in_Biomedical_Sciences

Publications on peer reviewed international journals (547)

<https://pubmed.ncbi.nlm.nih.gov/?term=Crovella+S&sort=date>

h index= 46 Citations 10,499 (Scopus)

(<https://www.scopus.com/authid/detail.uri?authorId=7005713079>)

h index= 59; Citations 14950 (Google Scholar)

<https://scholar.google.com/citations?user=ttzw93YAAAAJ&hl=en&oi=ao>