Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Francesca Sironi**
[redacted]	[redacted]
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Occupation or position held	**From 20th April 2015** HCPC – Health and Care Professions Council – UK Border Registration • Clinical scientist _ Registration Number CS19176
Dates	**From 15th April 2015** EBMG - European Board of Medical Genetics - Clinical Laboratory Geneticist Professional Branch (CLG)
Occupation or position held	• Clinical Laboratory Geneticist
Dates	**From 29th October 2014** SIGU – ITALIAN SOCIETY OF HUMAN GENETICS
Occupation or position held	• Clinical Laboratory Geneticist
Dates	**From 2009 to now** ONB – Italian National Biologist Order
Occupation or position held	• Biologist: licensed to practise as Biologist in public hospital (registration number: AA_062065).

PERSONAL SKILLS

Mother tongue(s)	Italian
Other language(s) *European level (*)*	English
Actually	IELT certification: overall score 6.5
2016	FIRST qualification - British Council certification (B2)
1998	PET - University of Cambridge certificate.

(*) Common European Framework of Reference for Languages - checked by British Institute

Communication skills

Good communication skills acquired through my experience working during the work at the medical genetics laboratory (writing international scientific papers, posters and projects) and thanks to my laboratory teaching activities in secondary technical schools.

Organisational / managerial skills

Good organisational skills gained through my experience in the hospital laboratory and teaching practical lessons.

- Ensure service is delivered under the sector's policies, procedures, and practices.
- To Know which tasks to prioritise
- Organization of the DNA samples extraction and collection of the "Human Genetic Bank of patients affected by Parkinson disease and parkinsonisms" Italian Telethon Project N. GTF03009.
- Coordination of few technician activities inside the IRCCS molecular genetics laboratory lab.
- Organization and involvement of students in laboratory practical work.
- University first degree tutor student stages supervisor, promoting student reflection and discussion.
- Internal laboratory SOPs reviewer
- Filling in and maintaining patient's records
- Maintain instrument records

Job-related skills

- Molecular diagnostic testing
- Carrier testing
- Genetic test reporting
- Prenatal testing

Computer skills

All Office applications, email and internet: acquired during my research laboratory work and teaching. NCBI search and related web biotechnology sources.

WORK EXPERIENCE

Dates	**From March 2019 to September 2021**
Occupation or position held	Three years of experience as University contract teacher – Molecular biology I course.
Name and address of the employer	Biology Faculty - Department of Science and Innovation Technology (DISIT) University of Piemonte Orientale "Amedeo Avogadro" – Vercelli.
Main activities and responsibilities	University lessons

Dates	**From October 2015 to 31st December 2018**
Occupation or position held	Human Molecular Biotechnology Geneticist – part-time activity
Name and address of the employer	Labospace Srl Via Ranzato, 12 - 20128 Milano - http://www.labospace.com/ LaboSpace Ltd Registered In England 8436463 Sander Gate, Churchfields -Stonesfield, Oxfordshire OX29 8PP
Main activities and responsibilities	• Nutrigenetic area such as: Coeliac disease, Lactose intolerance, Bitter test and so on. • Mutation analysis by genotyping and RealTime SNPs detection.

Dates	**August 2018**
Occupation or position held	Biologist – one month internal full-time activity as support at the Biochemistry Laboratory Department.
Name and address of the employer	Lacor Hospital, Fondazione Corti, Gulu, Uganda. www.fondazionecorti.it.
Main activities and responsibilities	To improve the internal performance of the laboratory:to set a new reception desk facility; to follow up the turnaround times (TAT); to clarifiy the interface within the lab and the other internal departments; to organize prioritization of the execution of urgencies.

Dates	**August 2017**
Occupation or position held	Biologist – one month voluntary full-time activity at the Biochemistry Laboratory Department.
Name and address of the employer	Lacor Hospital, Fondazione Corti, Gulu, Uganda. www.fondazionecorti.it.
Main activities and responsibilities	Internal laboratory SOPs reviewer

Dates	**From August 2011 to August 2012**
Occupation or position held	Biologist
Name and address of the employer	Dr. M.Marconi and Dr. M.Villa, Immunohematology Laboratory – affiliated to the American Association of Blood Banks (AABB) - Transfusion Medicine Centre of IRCCS Foundation "Ospedale Maggiore Policlinico, Mangiagalli e Regina Elena", Milan, Italy. Tel +39.02.5503.4048 – Email *mmarconi@policlinico.mi.it*; *a.villa@policlinico.mi.it*
Main activities and responsibilities FIRST PROJECT	Involved in the Regional Rare Hemocomponent Blood Bank (AABB) activities: • extensive DNA extraction by QIAcube® (Qiagen Inc., Basel, Switzerland); • extensive micro-array genomic DNA genotyping of blood donors of A and O type of ABO group and for platelet antigens; • PCR and genomic DNA sequencing of unclear blood group SSP-PCR identified genotypes; • immunohematology standar test tube.
SECOND PROJECT	Performed a validation analysis of *RhD* gene through real-time PCR using free fetal circulating DNA (ffcDNA) for: • *RhD* fetus status detection from RhD negative pregnant maternal plasma through real-time PCR. • Using the presence of Y chromosome in maternal blood to check for the presence of sex linked deseases. Collaborated with Peter Martin, NHS Blood & Transplant, Blood Group Genotyping, 500 North Bristol Park, Filton Bristol UK.

Type of business or sector	• Molecular biology techniques: DNA extraction by high-throughput Qiagen System, cffDNA extraction by Geoff Daniel Bristol-NHS method (UK), blood and platelete genotyping by micro-array high-throughput system BeadChipTM (from BioArray Solutions), standard PCR-SSP, standard PCR, Real-time PCR of cffDNA. DNA sequencing. • Immunohematology: standard blood group antigene test tube.
Dates	**From 2006 to 2011**
Occupation or position held	Human Molecular Biotechnology Geneticist
Name and address of the employer	Dr. Stefano Goldwurm, Parkinson Institute, Istituti Clinici di Perfezionamento, Via Bignami 1, 20126 Milan, Italy. Tel: +39 02 5799 3319 - email: *goldwurm@parkinson.it* or *stefano.goldwurm@gmail.com* Dr. Manuela Seia, Medical Genetics Laboratory, IRCCS Foundation "Ospedale Maggiore Policlinico, Mangiagalli e Regina Elena", via Commenda 12, 20127 Milan, Italy. Tel: +39.02.5503.2432-2433 - Email: *m.seia@policlinico.mi.it*
Research grants.	Telethon Project GTF03009 *(Human Genetic Bank of patients affected by Parkinson disease and parkinsonisms (http://www.parkinson.it/dnabank.htm).* Fondazione Grigioni per il Morbo di Parkinson (Milano), Italy.
Main activities and responsibilities	• Spearheaded DNA Biobank collection: storage and use of biological resources for the biomedical community with open access to researchers around the world. • Genotyped different Parkinson related genes in a selected number of cases: *DJ1, Parkin, Pink1, SNCA, Park8, GIGYF2.*
Type of business or sector	Molecular biology techniques: standard genomic DNA extraction, Genomic DNA extraction from saliva using Oragene™ method (DNA Genotek), DNA quantification (Nanodrop and UV), standard PCR, first level mutational screening by DHPLC (WAVE®, Transgenomic), esonuclease mutation detection method (Surveyor™), DNA sequencing, Real-time PCR of *Parkin PRKN-gene*. MLPA detection method for Parkinson related genes.
Dates	**June 2006 – December 2006**
Occupation or position held	Visiting biotechnology researcher.
Name and address of the employer	Dr. V*incenzo Bonifati* Erasmus Medical Centre Rotterdam, Department of Clinical Genetics the Netherlands (NL) Email: *v.bonifati@erasmusmsmc.nl*
Research grants.	Fondazione Grigioni per il Morbo di Parkinson (Milano), Italy. *www.parkinson.it*
Main activities and responsibilities	Performed large-scale DNA genotyping of *DJ-1* gene in Parkinson patients.
Type of business or sector	Genomic genotyping of Parkinson patients.
Dates	**From 2001 to 2005**
Occupation or position held	Human Molecular biotechnology, experiences in mutation analysis genotyping of different genetic disease genes - Hospital and Telethon scholarships
Name and address of the employer	Dr. Manuela Seia, Medical Genetics Laboratory, IRCCS Foundation "Ospedale Maggiore Policlinico, Mangiagalli e Regina Elena", via Commenda 12, 20127 Milan, Italy. Tel: +39.02.5503.2432-2433 - email: *m.seia@policlinico.mi.it*
Main activities and responsibilities	Genotyped different genes with in silico mutation identification: • Bartter type I (SLC12A1) • Bartter type II (KCNJ1) • Connexin26 (GJB2 gene) • Connexin30 (GJB6 gene)
Type of business or sector	• Molecular biology techniques: standard DNA extraction, standard PCR, first level mutational screening by DHPLC (WAVE®, Transgenomic) and SSCP technique, genomic DNA sequencing, DNA quantification (Nanodrop and UV). • Prenatal diagnosis of few Connexin cases.

Dates	**From 2000 to 2001**
Occupation or position held	Laboratory Assistant (Erasmus experience)
Name and address of the employer	Ref.1. Prof. G. JENKINS, Plant Cell and Molecular Biology, University of Glasgow College of Medical, Veterinary & Life Sciences Glasgow, G12 8QQ, Scotland. email: Gareth.Jenkins@glasgow.ac.uk Ref. 2: Prof. Gabriella Consonni - - Department of Agricultural and Environmental Sciences - Production, Landscape, Agroenergy, via Celoria 2, Milan, Italy. Email: gabriella.consonni@unimi.i - thttp://eng.disaa.unimi.it/ecm/home
Main activities and responsibilities	• Performed plant cell cultures and Agrobacterium vegetable tissue transformation. • Transformed Arabodopsis cell cultures by particle gun bombardment for tissue.
Type of business or sector	Plant transformation.
Dates	**From 2000 to present**
Occupation or position held	EDUCATION EXPERIENCE - Italian Public Education. Working as laboratory teacher. Topics: chemistry, biology and microbiology.
Main activities and responsibilities	• Running secondary school laboratory lessons for future chemical-analyst technicians. • Teaching theoretical and methodological information. • Topics: biology, microbiology, chemistry, organic chemistry and analytical chemistry.

EDUCATION AND TRAINING

From 2011 to 2012

Bachelor in Molecular Biology, University of Milano Bicocca, Italy, discussing the thesis: "Large-scale genotyping by high-throughput method for blood donor red blood cell and platelet antigens: from phenotype to genotype and vice versa". Level in national Classification 108/110

Prof. Ronchi Antonella Ellena, Department of Biotechnology and Biosciences; University of Milano-Bicocca (http://www.unimib.it/go/102/Home/English) Email: antonella.ronchi@unimib.it

- Free fetal circulating DNA (ffcDNA) extraction and RhD gene and Y chromosome Real-time PCR detection.
- Micro-arrays high-throughput Blood group detection system BeadChipTM, standard PCR-SSP.
- Immunohaematology: standard blood group antigenes test tube.

From 2003 to 2007

Diploma of Postgraduate Specialisation School in Technical Medical Geneticist (four year course), University of Milan, Italy, discussing the thesis: "Parkinson disease: molecular analysis of Mendelian forms." Level in national Classification 70/70

Prof. Stefano Duga, Associate Professor in Molecular Biology at the University of Milan, Department of Biology and Genetics for Medical Sciences, Medical Faculty. Email: stefano.duga@unimi.it

Molecular biology techniques: DNA extraction, PCR, DHPLC, SSCP, Real-time PCR, genomic sequencing.

UK Erasmus work experience from July to September 2000

Laboratory Erasmus working experience - Glasgow University
Prof. G. JENKINS, Plant Cell and Molecular Biology, University of Glasgow College of Medical, Veterinary & Life Sciences Glasgow, G12 8QQ, Scotland.
Email: Gareth.Jenkins@glasgow.ac.uk

Arabidopsis cell cultures and particle gun bombardment for tissue transformation.

From 1995 to 2000

Bachelor in Plant biotechnology (five year course). University of Milan, Italy, discussing the thesis: " Optimization of genetic transformation of Cyclamen (*Cyclamen persicum Mill.)* Level in national Classification 110/110

Ref 1: Dr. Barbara Ruffoni and Dr. Andrea Allavena - Istituto Sperimentale per le Piante Ornamentali di San Remo, Corso degli Inglesi n°508 SanRemo (IM), Italy. Email: *istflori@sistel.it*
Ref. 2: Prof. Gabriella Consonni - Istituto di Genetica Agraria di Milano, via Celoria 2, Milan, Italy. Email: consonni@mailserver.uinimi.it

Plant cell cultures and *Agrobacterium* vegetable tissue transformation.

ADDITIONAL INFORMATION

Conferences	Given the limited space, I list only publications and not congress posters.
Memberships / Professional Societies	Member of the Italian National Professional Societies of Biologist – ONB, Roma. www.onb.it
Hobby	• Clay modelling / Hiking / Swimming / Salsa dance

Publications
References

1) **DJ.1 analysis in a large cohort of Italian early onset Parkinson Disease. Sironi F**, Primignani P, Ricca S, Tunesi S, Zini M, Tesei S, Cilia R, Pezzoli G, Seia M, Goldwurm S. Neuroscience Letters 557 (2013) 165– 170.

2) **SNCA and MAPT genes: Independent and joint effects in Parkinson disease in the Italian population.** Luca Trotta, Ilaria Guella, Giulia Soldà, Francesca **Sironi**, Silvana Tesei, Margherita Canesi,Gianni Pezzoli, Stefano Goldwurm, Stefano Duga, Rosanna Asselta. Parkinsonism and Related Disorders 18 (2012) 257-262

3) **Screening of LRRK2 gene mutations in patients with Parkinson's disease in Ghana.** R Cilia, F **Sironi**, A Akpalu, M Cham, FS Sarfo, T Brambilla, A Bonetti, M Amboni, S. Goldwurm, G Pezzoli. J Neurol. 2011 DOI 10.1007/s00415-011-6210-y

3) **Kin-cohort analysis of LRRK2-G2019S penetrance in Parkinson's disease**. Goldwurm S, Tunesi S, Tesei S, Zini M, **Sironi** F, Primignani P, Magnani C, Pezzoli G. Mov Disord. 2011 Jun 28. doi: 10.1002/mds.23807.

4) **Mutational screening and zebrafish functional analysis of GIGYF2 as a Parkinson-disease gene.** Guella I, Pistocchi A, Asselta R, Rimoldi V, Ghilardi A, **Sironi F**, Trotta L, Primignani P, Zini M, Zecchinelli A, Coviello D, Pezzoli G, Del Giacco L, Duga S, Goldwurm S. Neurobiol Aging. 32 (2011) 1994–2005

5) **Comment on "compound heterozygosity in DJ-1 gene non-coding portion related to Parkinsonism**". **Sironi** F, Primignani P, Goldwurm S. Parkinsonism Relat Disord. 2010 Jun;16(5):360-1; author reply 362-3. Epub 2010 Mar 12.

6) **Long-term follow-up of patients with Bartter syndrome type I and II.** Puricelli E, Bettinelli A, Borsa N, **Sironi** F, Mattiello C, Tammaro F, Tedeschi S, Bianchetti MG; Italian Collaborative Group for Bartter Syndrome.Nephrol Dial Transplant. 2010 Sep;25(9):2976-81.

7) **Alpha-Synuclein multiplication analysis in Italian familial Parkinson disease. Sironi F**, Trotta L, Antonini A, Zini M, Ciccone R, Della Mina E, Meucci N, Sacilotto G, Primignani P, Brambilla T, Coviello DA, Pezzoli G, Goldwurm S. *Parkinsonism Relat Disord.* 2010 Mar;16(3):228-31.

8) **Analysis of the GJB2 and GJB6 Genes in Italian Patients with Nonsyndromic Hearing Loss: Frequencies, Novel Mutations, Genotypes, and Degree of Hearing Loss.** P Primignani, L Trotta, P Castorina, F Lalatta, **F Sironi**, C Radaelli, D Degiorgio, C Curcio, M Travi, U Ambrosetti, Cesarani, L Garavelli, P Formigoni, D Milani, Murri, D Cuda, DA Coviello Genetic Testing and Molecular Biomarkers: Vol 13, Number 2, 2009.

9) **Phenotipe, genotype and worldwide genetic penetrance of LRKK2-associated Parkinson's disease: a case-control study.** D G Healy, M Falchi, S S O'Sullivan, V Bonifati, A Durr, S Bressman, Al Brice, J Aasly, C P Zabetian, S Goldwurm, J J Ferreira, E Tolosa, D M Kay, C Klein, D R Williams, C Marras, A E Lang, Z K Wszolek, J Berciano, A H V Schapira, T Lynch, K P Bhatia, T Gasser, A J Lees, N W Wood, Other members of the International LRRK2 Consortium: **F Sironi** et al. *Lancet Neural* 2008; 7: 583-90.

10) **HFE gene mutations in a population of Italian Parkinson's disease patients.**G Biasiotto, S Goldwurm, D Finazzi, S Tunesi, A Zecchinelli, **F Sironi**, G Pezzoli, P Arosio. *Parkinsonism and Related Disorder* 14(2008) 426-430.

11) **Parkin analysis in early onset Parkinson's disease F Sironi**, P Primignani, M Zini, S Tunesi, C Ruffmann, S Ricca, T Brambilla, A Antonini, S Tesei, M Canesi, A Zecchinelli, C Mariania, N Meucci, G Sacilotto, R Cilia, IU. Isaias, B Garavaglia, D Ghezzi, M Travi, A Decarli, DA. Coviellob, G Pezzolia, S Goldwurm. *Parkinsonism and Related Disorders 14 (2008) 326-333.*

12) **Analysis of ferritin genes in Parkinson disease** B Foglieni, F Ferrari, S Goldwurm, P Santambrogio, E Castiglioni, M Sessa, M A Volontè, S Lalli, C Galli, X-S Wang, J Connor, **F Sironi**, M Canesi; G Biasiotto, G Pezzoli, S Levi, M Ferrari, P Arosio, L Cremonesi. *Clin Chem Lab Med2007; 45(11):1450-1456.*

13) **Evaluation ofLRRK2 G2019S penetrance: relevance for genetic counseling in Parkinson's disease**. S Goldwurm, M Zini, L Mariani, S Tesei, R Miceli, **F Sironi**, M Clementi, V Bonifati and G Pezzoli. Neurology 2007, April 3;68(14):1141-3.

Publications
References

14) **LRRK" G2019S mutation and Parkinson's disease: a clinical, neuropsychological and neuropsychiatric study in a large Italian sample** S Goldwurm, M Zini, A Di Fonzo, D De Gasperi, C Siri, EJSimons, M van Doeselaar, S Tesei, A Antonini, M Canesi, A Zecchinelli, C Mariani, N Meucci, G Sacilotto, R Cilia, I Isaias, A Bonetti, **F Sironi,** S Ricca, BA Oostra, V Bonifati and G Pezzoli *Parkinsonism and Related Disorders. 12(2006): 410-419.*

15) **The G6055A (G2019S) mutation in LRRK2 is frequent in both early and late onset Parkinson's disease and originates from a common ancestor** S Goldwurm, A Di Fonzo, EJSimons, CF Rohè, M Zini, M Canesi, S Tesei, A Zecchinelli, A Antonimi, C Mariani, N Meucci, G Sacilotto, **F Sironi,** G Salani, J Ferriera, HF Chien, E Fabrizio, N Vanacore, A Dalla Libera, F Stocchi, C Diroma, P Lamberti, C Sampaio, G meco, E Barbosa, AM Bertoli-Avella, GJ Bredveld, BA Oostra, G Pezzoli and V Bonifati *J.Med. Genet. 2005 Aug;42;65-d*oi:10.1136/jmg.2005,035568 Electronic Letter.

16) **First-trimester prenatal screening of the common 35delG GJB" mutation causing prelingual deafness** Coviello DA., Brambati B., Tului L., Percesepe A., **Sironi F.,** Sahai A., Bertorelli R., ForaboscoA. *Prenat Diagn 2004 Aug;24(8):631-4.*

17) **A novel dominant missense mutation – D179N – in the *GJB2* gene (Connexin 26) associated with non- syndromic hearing loss.** Primignani P., Castorina P., **Sironi F**., Curcio C., Ambrosetti U., Coviello DA. *Clinical Genetics 2003: 63: 516-521.*

Autorizzo,

- ai sensi del D. Lgs. n. 196/2003, al trattamento dei dati personali contenuti nella presente dichiarazione per tutte le fasi del procedimento concorsuale e per qualsiasi eventuale ulteriore adempimento richiesto per legge alla Fondazione.

- ai sensi della normativa vigente ed in particolare dell'art. 15 del d.lgs. n. 33 del 14 marzo 2013,

"Il presente curriculum ha la funzione di autocertificazione ai sensi del D.P.R. 445/2000".