



**Curriculum vitae
Europass**



Personal Informations

Name / Surname

Sergiu Chira

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Nationality

Romanian

Birth date

December 1st 1981

Sex

M

Professional experience

01.10.2015-Present: Scientific Researcher, Research Center for Functional Genomics, Biomedicine and Translational Medicine, University of Medicine and Pharmacy "Iuliu Hatieganu", Cluj-Napoca, Romania

15.10.2014-30.09.2015: Biologist, Research Center for Functional Genomics, Biomedicine and Translational Medicine, University of Medicine and Pharmacy "Iuliu Hatieganu", Cluj-Napoca, Romania

01.02.2014-01.10.2014: Volunteer research biologist, Department of Molecular Biology and Experimental Pathology, Cancer Institute "Ion Chiricuță", Cluj-Napoca, Romania

01.05.2009-01.03.2012: Research assistant, Faculty of Biology and Geology, Babeș-Bolyai University, Cluj-Napoca, Romania

Education

2006-2011: Doctoral (PhD) degree in Molecular Biology, Molecular Biology Center, Institute for Interdisciplinary Research in Bio-Nano-Sciences, Babeş-Bolyai University, Cluj-Napoca, Romania

2005-2006: Master (MSc) degree in Cellular Biology and Molecular Biotechnology at the Faculty of Biology and Geology, Babeş-Bolyai University, Cluj-Napoca, Romania

2001-2005: Bachelor (BSc) degree in Biology at the Faculty of Biology and Geology, Babeş-Bolyai University, Cluj-Napoca, Romania

1996–2000: Alexandru Papiu-Ilarian Secondary School, Zalău, Romania

Personal abilities and professional skills

Mother language **Romanian**

Foreign languages

Autoevaluation

European level (*)

English

French

Lisening				Speaking				Writing	
Lisening		Reading		Conversation		Oral speach		Writing skills	
B 2	Advanced	B 2	Advanced	B 2	Advanced	B 2	Advanced	B 2	Advanced
A 1	Elementary	A 1	Elementary	A 1	Elementary	A 1	Elementary	A 1	Elementary

(*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine

Computer skills

Microsoft Office (Word, Excel, PowerPoint)
 Molecular biology software: Vector NTI, PerlPrimer, MutaPrimer, Seqool
 Molecular biology public data bases: NCBI, Genome Browser, RepeatMasker

Membership in scientific communities

American Society of Cell and Gene Therapy (ASCGT)
 European Society of Cell and Gene Therapy (ESCG)
 Romanian Society of Molecular Biology and Biochemistry (SRBBM-FEBS)

Professional skills	<p>Molecular biology: nucleic acid purification, nucleic acid quality control (Nanodrop and Agilent Bioanalyzer), DNA and RNA electrophoresis, PCR, RT-PCR, RACE (<u>R</u>apid <u>A</u>mplification of <u>c</u>DNA <u>E</u>nds), <i>in vitro</i> transcription, southern blot, site-directed mutagenesis, molecular cloning, transformation, sequencing, SNP analysis</p> <p>Biochemistry: SDS-PAGE protein electrophoresis, Ni-agarose affinity chromatography, western blot</p> <p>Cell Biology: handling of human cell lines, cytotoxicity tests (MTT), magnetic activated cell sorting (MACS), tranfection and selection, lentiviral vectors production, lentiviral transduction, clonogenic assay</p> <p>Microbiology: <i>Escherichia coli</i> cultures</p>
Awards	<p>December 2011: Juventute Prize for young researchers, Faculty of Biology and Geology, Babeş-Bolyai University, Cluj-Napoca, Romania</p> <p>May 2000: 1st Prize at Secondary School Competition of Scientific Essays, Zalău, Romania</p> <p>April 2000: 3rd Prize at National Olympiad in Biology - Genetics, Oradea, Romania</p>
Workshops	<p>2007 May 28-31: "BIOGENERO- Functional Genomics in Cancer Biology and Therapy", Department of Molecular Biology and Experimental Pathology, Cancer Institute "Ion Chiricuță", Cluj-Napoca, Romania</p> <p>2007 May 14-25: International Workshop on Quantitative Biology, The International Centre of Biodynamics, Bucharest, Romania</p> <p>2006 July 2-12: "BIOGENERO- Functional Genomics in Cancer Biology and Therapy", Summer School, Department of Molecular Biology and Experimental Pathology, Cancer Institute "Ion Chiricuță", Cluj-Napoca, Romania</p> <p>2015 Aug 24-28: "Applied FISH techniques in cancer pathology", Cancer Institute "Ion Chiricuță", Cluj-Napoca, Romania</p> <p>2015 Sep 20-25: "International EU Grant Academy for Research and Innovation", Portoroz, Slovenia</p>

Poster presentations

2015 May 29-30: Win Symposium Paris, France: Differential plasma miRNA expression profiles in estrogenic and progesterone receptors for double positive breast cancer and triple negative breast cancer

2015 Oct 6-10: EMBO/EMBL Symposium Heidelberg, Germany: Fluorescent microscopy as a potential tool for in TNBC prediction to targeted siRNA therapy - Evaluation of TGFB1 siRNA and doxorubicin combination therapy in the triple negative breast cancer *in vitro* model Hs578T by Annexin V-FITC fluorescent microscopy.

Tomuleasa C, Fuji S, Berce C, Onaciu A, **Chira S**, Petrushev B, Micu WT, Moisoiu V, Osan C, Constantinescu C, Pasca S, Jurj A, Pop L, Berindan-Neagoe I, Dima D, Kitano S. Chimeric Antigen Receptor T-cells for the treatment of B-cell Acute Lymphoblastic Leukaemia. *Front Immunol.* 2018, 19;9:239

Selected Publications

Chira S, Gulei D, Hajitou A, Berindan-Neagoe I. Restoring the p53 'guardian' phenotype in p53-deficient tumor cells using CRISPR/Cas9. *Trends Biotechnol* 2018, 36(7):653-660

Chira S, Gulei D, Hajitou A, Zimta AA, Cordelier P, Berindan-Neagoe I. CRISPR/Cas9: Transcending the reality of genome editing. P, Berindan-Neagoe I. CRISPR/Cas9: Transcending the reality of genome editing. *Mol Ther-Nucl Acids* 2017. <http://doi.org/10.1016/j.omtn.2017.04.001>

Chira S, Jackson C, Oprea I, Ozturk F, Pepper M, Diaconu I, Braicu C, Raduly LJ, Calin AG, Neagoe BI. Progresses towards safe and efficient gene therapy vectors. *Oncotarget*, DOI: 10.18632/oncotarget.5169 (2015)

Braicu C, Pileczki V, Pop L, Petric RC, **Chira S**, Pointiere E, Achimas-Cadariu P, Berindan-Neagoe I. Dual targeted therapy with p53 siRNA and Epigallocatechingallate in a triple negative breast cancer cell model. *PLoS One* 10(4):e0120936 (2015)

Braicu C, Petric RC, **Chira S**, Truta A, Petrut B, Floares A, Cadariu PA, Neagoe IB. Clinical and pathological implications of miRNA in bladder cancer. *International Journal of Nanomedicine*, 10:1-10 (2015)

Ionescu C, Braicu C, Chiorean R, Petric RC, Neagoe E, Pop, **Chira S**, Neagoe IB. TIMP-1 expression in human colorectal cancer is associated with SMAD3 gene expression levels: a pilot study. *Journal of Gastrointestinal and Liver Diseases*, 23(4):413-420 (2014)

Raiz J, Damert A, **Chira S**, Held U, Klawitter S, Hamdorf M, Löwer J, Strätling WH, Löwer R, Schumann GG The non-autonomous retrotransposon SVA is *trans*-mobilized by the human LINE-1 protein machinery. *Nucleic Acid Research*, 40(4):1666-1683 (2012)