

**Europass  
curriculum vitae**

**Personal information**

Surname(s) / First name(s) **Crina STAVARU**  
 Address(es) 3-5 Ion Brezoianu street, Apt 34, 050023,sect5, Bucharest, Romania  
 Telephone(s) +40021-306.91.90/+40 021-306.92.90 Mobile: +40722662609  
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 E-mail(s) [stavaru.crina@cantacuzino.ro](mailto:stavaru.crina@cantacuzino.ro)/[stavaru34@yahoo.com](mailto:stavaru34@yahoo.com)  
 Nationality(-ies) Romanian  
 Date of birth 31.10.1967  
 Gender female

**Work experience**

Dates 2001- present  
 Occupation or position held 2013 Head of Cellular and Immunology Laboratory, MD, PhD  
 2018-Head of Research and Development Department  
 2022-Scientific director of “Cantacuzino” Medico-Military National Research and Development Institute,

Main activities and responsibilities Biomedical research, field of immunology, vaccinology, experimental studies in vivo, coordination of research projects Responsible for GLP vaccine preclinical studies with experience in experimental design, regulatory guidelines and influenza vaccine evaluation, demonstrated by her leadership of preclinical studies for the development of 2009 pandemic vaccines H1N1sw and in those performed in the WHO Influenza Vaccine Production Grant SPHQ-LOA-86 and FLUSECURE project.

Name and address of employer Treasurer of the Romanian Society for Immunology (2008-2015) Immunology lectures in the ESF-EC-financed project – IMUNOLAB (2010-2013  
 “Cantacuzino” Medico-Military National Research and Development Institute, 103 Spl. Independentei, 50100, Sect. 5, Bucharest, Romania

Type of business or sector Immunology

Dates 1998-2001

Occupation or position held MD

Main activities and responsibilities Research and diagnostic of parasitic disease

Name and address of employer Cantacuzino NIRDMI, 103 Spl. Independentei, 50100, Sect. 5, Bucharest, Romania

Type of business or sector Research and diagnostic of parasitic disease

## Education and training

Dates	1998- 2004
Title of qualification awarded	PhD Diploma-1549/16.01.2004
Principal subjects/Occupational skills covered	Immunology
Name and type of organisation providing organisation and training	University of Medicine and Pharmacy Carol Davila, Bucharest
Level in national or international classification	Post-university study / ISCED 7 (72)
Dates	2004
Title of qualification awarded	Primary medical doctor- OMS 1067/25.08.2004
Principal subjects/Occupational skills covered	Lab medicine
Name and type of organisation providing organisation and training	Ministry of Health
Level in national or international classification	Training- ISCED 7 (72)
Dates	1995-1998
Title of qualification awarded	Medical specialist- OMS1011/1998
Principal subjects/Occupational skills covered	Lab medicine
Name and type of organisation providing organisation and training	Ministry of Health
Level in national or international classification	Training- ISCED 6 (72)
Dates	Septembre 1988 – Septembre 1994
Title of qualification awarded	MD Diploma
Principal subjects/Occupational skills covered	General Medicine
Name and type of organisation providing organisation and training	“Iuliu Hatieganu” University of Medicine and Pharmacy Cluj
Level in national or international classification	University study- ISCED 6 (72)

## Personal skills and competences

acquired during life and career but which are not necessarily recognized by a certificate or diploma	CS III - 01.10.2005 CSII - 01.01.2011 CSI - 15.05.2022
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**Romanian**

Mother tongue(s)

Other language(s)

*Self-assessment*

*European level (\*)*

<b>Understanding</b>		<b>Speaking</b>		<b>Writing</b>
Listening	Reading	Spoken interaction	Spoken production	
			X	X
			x	x

**English**

**French**

*(\*) Common European Framework of Reference (CEF) level*

Organisational skills and competences

Management of laboratory human, financial,resources as laboratory head  
Management of rearch projects as Project responsables  
Management of research department as head of department

Technical skills and competences

Immunology methods and techniques knowledge (cell cultures, flow-cytometry, ELISA, ELISPOT, PCR,electrophoresis, *in vivo* experimentation etc)

Computer skills and competences

Computer skills –word, excel, powerpoint, adobe photoshop/ acquisition, analisys and processing CellQuest, FACS Diva, imagej

Other skills and competences

Hematology

Driving licence(s)

yes

**Additional information**

Member of Romanian Immunology Society- tresor function-2008-2015

**Courses:**

- Microbiology Seminar, organized by the "Jacques Monod" Education and Documentation Center, Cantacuzino Institute, 1998 (4 days);
- Course "AIDS and HIV Infections", organized by Rene Descartes University - Paris and UMF "Carol Davila", Bucharest (5 days);
- The "John Humphrey" course, organized by the Romanian Society of Immunology, Iasi Branch, 2000 (5 days);
- Postgraduate advanced course "From Cellular and Molecular Biology to 21st Century Medicine", Institute of Cellular Biology and Pathology 'N. Simionescu' 2001 (9 days) ;
- Course "Animal models of human disease", Dublin, Ireland, 2002 (5 days).
- Operator training on BD FACSCanto TM II, BD FACSDivaTM 6.12 at BD Biosciences, Heildeberg, Germany, 2009 (5 days).
- Operator training on BD FACSAria TM III, BD FACSDivaTM 6.12 at BD Biosciences, Ghent, Belgium, 2017 (5 days).

**Others:**

- 2003 - "Ioan Moraru" Award of the Romanian Immunology Society for "Dendritic cell, present and future"
- 2017 - "Grigore Ghyca" Clinical Immunology Award of the Romanian Immunology Society for "Immunogenicity evaluation of some proteins derived from hepatitis B virus (hbv) and hepatitis C virus (HCV) in mammalian cells and plants"
- 2021-Patent application A/00691/17.11.2021-Procedures for formulating and obtaining nanostructured immunomodulatory products (Giol E.Diana, Stăvaru G.Crina, Onu Adrian, Tofan Vlad, Caras Iuliana, Palela Mihaela, Mihalcea Alina, Amzuța Andreia , Costache Adriana, Floarea Mădălina, Talpău Mădălina, Marinesu Mihaela, Ciulean Sonya)

**Annexes**

Annex 1- scientific publications

25.03.2024



**PUBLICATIONS:  
ISI INDEXED**

	FI	Citations
The “humanized” N-glycosylation pathway in CRISPR/Cas9-edited <i>Nicotiana benthamiana</i> significantly enhances the immunogenicity of a S/preS1 Hepatitis B Virus antigen and the virus-neutralizing antibody response in vaccinated mice, Ana-Maria Pantazica; Andre van Eerde; Mihaela-Olivia Dobrica; Iuliana Caras; Irina Ionescu; Adriana Costache; Catalin Tucureanu; Hege Steen; Catalin Lazar; Inger Heldal; Sissel Haugslie; Adrian Onu; <b>Crina Stavaru</b> ; Norica Branza-Nichita; and Jihong Liu Clarke. <i>Plant Biotechnology Journal</i> 21, 1176–1190, 2023.	13,26	0
Efficient cellular and humoral immune response and production of virus-neutralizing antibodies by the Hepatitis B Virus S/preS116-42 antigen, Ana-Maria Pantazica; Mihaela-Olivia Dobrica; Catalin Lazar; Cristina Scurtu; Catalin Tucureanu; Iuliana Caras; Irina Ionescu; Adriana Costache; Adrian Onu; Jihong Liu Clarke; <b>Crina Stavaru</b> ; Norica Branza-Nichita; <i>Front Immunol</i> , 22;13:941243.2022. DOI: 10.3389/fimmu.2022.941243	8.78	0
Challenges and Prospects of Plant-Derived Oral Vaccines against Hepatitis B and C Viruses, Pantazica Ana-Maria Madalina; Cucos, Lia-Maria; <b>Stavaru Crina</b> ; Clarke Jihong-Liu; Branza-Nichita Norica, <i>Plants</i> , 10, 2037,1-17,2021.	3.935	0
Hepatitis C virus E2 envelope glycoprotein produced in <i>Nicotiana benthamiana</i> triggers humoral response with virus-neutralizing activity in vaccinated mice, Dobrica Mihaela-Olivia; van Eerde Andre; Tucureanu Catalin; Onu Adrian; Paruch Lisa; Caras Iuliana; Vlase Ene; Steen Hege; Haugslie Sissel; Alonzi Dominic; Zitzmann Nicole; Bock Ralph; Dubuisson Jean; Popescu Costin-Ioan; <b>Stavaru Crina</b> ; Liu Clarke Jihong; Branza-Nichita Norica, <i>Plant Biotechnology Journal</i> , 19, 2027-2039,2021.	9.803	1
Oral administration of a chimeric Hepatitis B Virus S/preS1 antigen produced in lettuce triggers infection neutralizing antibodies in mice, Mihaela-Olivia Dobrica; Catalin Lazar; Lisa Paruch; André van Eerde; Jihong Liu Clarke; Catalin Tucureanu; Iuliana Caras; Sonya Ciulean; Adrian Onu; Vlad Tofan; Alexandru Branzan; Stephan Urban; <b>Crina Stavaru</b> ; Norica Branza-Nichita, <i>Vaccine</i> 36, (38), 5789-5795, 2018.	3.641	9
A novel chimeric Hepatitis B virus S/preS1 antigen produced in mammalian and plant cells elicits stronger humoral and cellular immune response than the standard vaccine-constituent, S protein, Dobrica Mihaela-Olivia; Lazar, Catalin; Paruch Lisa; Skomedal Hanne; Steen Hege; Haugslie Sissel; Tucureanu Catalin; Caras Iuliana; Onu Adrian; Ciulean, Sonya; Branzan Alexandru; Clarke Jihong Liu; <b>Stavaru Crina</b> ; Branza-Nichita Norica, <i>Antiviral Research</i> ,144, 256-265, 2017.	5.970	12
Technology transfer of oil-in-water emulsion adjuvant manufacturing for pandemic influenza vaccine production in Romania: Preclinical evaluation of split virion inactivated H5N1 vaccine with adjuvant, <b>Stavaru Crina</b> ; Onu Adrian; Lupulescu Emilia; Tucureanu Catalin; Rasid Orhan; Vlase Ene; Coman Cristin; Caras Iuliana; Ghiorghisor Alina; Berbecila Laurentiu; Tofan Vlad; Bowen Richard A.; Marlenee Nicole; Hartwig Airn; Bielefeldt-Ohmann Helle; Baldwin Susan L.; Van Hoeven Neal; Vedvick Thomas S.; Chuong Huynh; O'Hara Michael K.; Noah Diana L.; Fox Christopher B. <i>Human Vaccines &amp; Immunotherapeutics</i> ,12,4, 1009-1026, 2016	3.452	8
Fullerene-porphyrin nanostructures in photodynamic therapy, Constantin Carolina; Neagu Monica; Ion Rodica-Mariana; Gherghiceanu Miheala; <b>Stavaru Crina</b> , <i>Nanomedicine</i> , 5, (2), xxx-xxx,1-11, 2010.	6.202	18
Porphyrin (TPP)-Polyvinylpyrrolidone (PVP)-Fullerene (C-60) Triad as Novel Sensitizer in Photodynamic Therapy, Ion Rodica Mariana; Fierascu Radu Claudiu; Neagu Monica; Constantin Carolina; <b>Stavaru Crina</b> , <i>Science of Advanced Materials</i> ,2, (2), 223–229, 2010.	1.474	5
Diabetic nephropathy associates with deregulation of enzymes involved in kidney sulphur metabolism, Uyy Elena; Suica Viorel Iulian; Boteanu Raluca Maria; Safciuc Florentina; Cerveanu-Hogas Aurel; Ivan Luminita; <b>Stavaru Crina</b> ; Simionescu Maya; Antohe Felicia, <i>Journal of Cellular and Molecular Medicine</i> , 24, 12131-12140, 2020.	5.310	0

Biological and molecular modifications induced by cadmium and arsenic during breast and prostate cancer development, Zimta Alina-Andreea; Schitcu Vlad; Gurzau Eugen; Stavaru Crina; Manda Gina; Szedlaczek Stefan; Berindan-Neagoe Ioana, Environmental Research, 178, 108700, 2019	6.498	16
Lettuce-produced hepatitis C virus E1E2 heterodimer triggers immune responses in mice and antibody production after oral vaccination, Clarke Jihong Liu; Paruch Lisa; Dobrica Mihaela-Olivia; Caras Iuliana; Tucureanu Catalin; Onu Adrian; Ciulean Sonya; Stavaru Crina; Eerde Andre; Wang Yanliang; Steen Hege; Haugslien Sissel; Petrareanu Catalina; Lazar Catalin; Popescu Costin-Ioan; Bock Ralph; Dubuisson Jean; Branza-Nichita Norica, Plant Biotechnology Journal,15, 1611-1621,2017	9.803	29
Dysregulation of anergy-related factors involved in regulatory T cells defects in Systemic Lupus Erythematosus patients: Rapamycin and Vitamin D efficacy in restoring regulatory T cells, Banica Leontina M.; Besliu Alina N.; Pistol Gina C.; Stavaru Crina; Vlad Violeta; Predeteanu Denisa; Ionescu Ruxandra; Stefanescu Maria; Matache Cristiana, International Journal of Rheumatic Diseases, 19, (12), 1294, 10, 2016.	2.454	11
Abnormalities in soluble CD147/MMPs/TIMPs axis in Ankylosing Spondylitis patients with and without a history of Acute Anterior Uveitis, Mitulescu Traian Costin; Voinea Liliana Mary; Predeteanu Denisa; Banica Leontina Mirela; Stavaru Crina; Matache Cristiana, Revista Romana de Medicina de Laborator, 22, (4), 479-496, 2014.	1.027	2
Assessment of Routine Procedure Effect on Breathing Parameters in Mice by Using Whole-Body Plethysmography, Rasid, Orhan; Chirita Daniel; Iancu Adina D.; Stavaru Crina; Radu Dorel L., Journal of the American Association for Laboratory Animal Science, 51, (4), 469-474, 2012.	1.232	10
Quantification and molecular characterization of regulatory T cells in connective tissue diseases, Banica Leontina; Besliu Alina; Pistol Gina; Stavaru Crina; Ionescu Ruxandra; Forsea Ana-Maria; Tanaseanu Cristina; Dumitrache Sergiu; Otelea Dan; Tamsulea Isabela; Tanaseanu Stefanita; Chitonu Cristina; Paraschiv Simona; Balteanu Monica; Stefanescu Maria; Matache Cristiana, Autoimmunity, 42,(1), 41-49,2009.	2.815	50
Roles of CD147 on t lymphocytes activation and MMP-9 secretion in Systemic Lupus Erythematosus,Pistol Gina; Matache Cristiana; Calugaru Ana; Stavaru Crina; Tanaseanu Stefanita; Ionescu Ruxandra; Dumitrache Sergiu; Stefanescu Maria, Journal of Cellular and Molecular Medicine,11,(2),339-348, 2007.	5.310	27
Evidence for immune defects in breast and lung cancer patients, Caras Iuliana; Grigorescu A; Stavaru Crina; Radu Dorel Lucian; Mogos I; Szeqli G; Salageanu Aurora, Cancer Immunology, Immunotherapy, 53, 1146-1152, 2004.	6.968	74
Double transgenic mice with type 1 diabetes mellitus develop somatic, metabolic and vascular disorders,AUTHORS Radu Dorel Lucian; Georgescu Adriana; Stavaru Crina; Carale Alina; Popov Doina, Journal of Cellular and Molecular Medicine, 8, 349-358,2004.	5.310	3

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	Citations
Inflammatory and redox changes in mice chronically exposed to lindane in drinking waterVlad Tofan, Cătălin Tucureanu, Claudiu Gal, Luliana Caraș, Mihaela Diaconu, Gina Manda, <b>Crina Stăvaru</b> , Roum Arch Microbiol Immunol, 80,(13),229-237,2021.	0
Antibody and splenocyte proliferation response to whole inactivated Streptococcus pneumoniae serotype 1, 3 and 6B in mice, Pană Marina, Rasid Orhan, Bănică Leontina, Iancu Adina D, <b>Stăvaru Crina</b> , Roum Arch Microbiol Immunol 70, (4), 168-73,2011. PMID: 22568264	1
Microbiological and immunological study of staphylococcus vaccine effects in periodontitis, <b>Stavaru Crina</b> , Dumitrescu Viorica, Lemeni Daniela, Georgescu Ion B, Codița Irina, Radu Dorel L .,- Roum Arch Microbiol Immunol, 64(1-4),11-6,2005. ISSN: 1222-3891,PMID: 17405309 [PubMed - indexed for MEDLINE]	2

- Phenotypical changes during in vitro cultivation of monocytes derived immature dendritic cells, **Stăvaru Crina**, Caplanus A, Radu Dorel L., Roum Arch Microbiol Immunol, 63(1-2), 35-46, 2004, ISSN: 1222-3891, PMID: 16295319 [PubMed - indexed for MEDLINE] 0
- The assessment of cellular immunity in subjects presenting different immune disorders, **Stăvaru, Crina**; Olinescu Andrei, Roum Arch Microbiol Immunol, 60, (4), 297-305, 2001. ISSN: 1222-3891, PMID: 12561672 [PubMed - indexed for MEDLINE] 0
- The levels of neutrophils oxidative burst in rheumatic disorders, **Stăvaru Crina**; Dolganiuc Angela; Baltaru Doina; Olinescu Andrei, Roum Arch Microbiol Immunol, 58 (3-4), 241-8, 1999. ISSN: 1222-3891, PMID: 11845461 [PubMed - indexed for MEDLINE] 0
- BIOMEDICAL MATERIALS BASED ON FULLERENES, Radu Claudiu Fierascu, Irina Dumitriu, Rodica Mariana Ion, Raluca Ioana Bunghez, Monica Neagu, Carolina Constantin, **Crina Stăvaru**, 12, (2), 147-154, 2011. ISSN 1582-54X 0
- Basic features of sensory neurons from dorsal root ganglia in TCR-HA+/-/ RIP-HA+/- MICE, Beatrice Mihaela Radu, Iancu Adina.D., Adela Marin, Mihai Radu, D.D. Banciu, Crina Stăvaru, Radu Dorel.L. - Romanian J. Biophys., 19, (2), 83-95, 2009. CNCSIS=615 B+, p-ISSN=1220-5155X, e-ISSN=1843-424X. 0
- Evaluation of the efficacy of a specific hyperimmune serum in experimental Influenza infection in mice, Bogdan Marinescu, Cristin Coman, Adina D. Iancu, Crina Stăvaru, Emilia Lupulescu, Adrian Onu, Dorel Lucian Radu - Romanian Archives of Microbiology and Immunology, 68, (2), 22-24, 2009. ISSN: 1222-3891 3
- Role of cellular immunity in systemic sclerosis pathogenesis: update on CD4+T cells population studies, Beșliu Alina N, Bănică Leontina M, Ionescu Ruxandra, Predețeanu D, **Stăvaru Crina**, Marica Carmen M, Chițonu Carmen, Pistol Gina, Ștefănescu Maria, Matache Cristiana, **Roum Arch Microbiol Immunol** 68(1), 5-13, 2009. ISSN: 1222-3891, PMID: 19507621 [PubMed - indexed for MEDLINE] 10
- Pancreatic beta cell allotransplant in double transgenic mouse model of type 1 diabetes mellitus, Melania Grosu, **Crina Stăvaru**, Daniela Guțu, Dorel L Radu, **Roum Arch Microbiol Immunol**, 66, (3-4):57-61, 2007. ISSN: 1222-3891, PMID: 18928064 [PubMed - indexed for MEDLINE] 0
- Flow cytometric determination of Enterococcus spp. susceptibility to four antimicrobial agents, Dolganiuc Angela; Pana Marina; Ghita Monica; Stăvaru Crina; Olinescu Andrei, Roum Arch Microbiol Immunol, 60, (4), 307-22, 2001. ISSN: 1222-3891, PMID: 12561673 [PubMed - indexed for MEDLINE] 0
- The migratory and phagocytic activity of polymorphonuclear leukocytes in rheumatoid arthritis and osteoarthritis patients, Dolganiuc Angela; Stăvaru Crina; Anghel M; Baltaru Doina; Georgescu E; Olinescu Andrei, Roum Arch Microbiol Immunol, 59, (1-2), 43-53, 2000 ISSN: 1222-3891, PMID: 11845474 [PubMed - indexed for MEDLINE] 9
- The influence of synovial fluid on lymphocyte functions in rheumatoid arthritis, Dolganiuc Angela; Stăvaru Crina; Radu, Dorel L; Olinescu Andrei, Roum Arch Microbiol Immunol, 57, (3-4), 243-54, 1998. ISSN: 1222-3891, PMID: 11845436 [PubMed - indexed for MEDLINE] 1
- The role of Vitamin D in immuno-inflammatory responses in ankylosing spondylitis patients with and without acute anterior uveitis, TC Mîțulescu, Crina Stăvaru, LM Voinea, Leontina M Banica, Cristiana Matache, Denisa Predeteanu, Journal of Medicine and Life, 9, (1), 2016. ISSN1844-3117 9

#### Book:

- INFLUENZA INFECTION AND VACCINE IMMUNIZATION. EXPERIMENTAL AND CLINICAL STUDIES - ISBN 978-973-708-332-6 – DOREL LUCIAN RADU, MANUELLA MILITARU AURELIA IONESCU CRINA STĂVARU EMILIA LUPULESCU ADRIAN ONU MELANIA GROSU BOGDAN MARINESCU GABRIELA OPRIȘAN ROXANA DIMITRIU ADRIANA COSTACHE IULIANA ONIȚĂ-participants Viorel Alexandrescu Margareta Mazilu Mircea Panait Daniela Iancu Anca Ciobotariu Dumitru Mihăilă Valeria Clucerescu Camelia Szmál Ana-Maria Oprișoreanu 2008 Carol Davila Univ. Press
- METHODS AND TECHNIQUES OF IMMUNOLOGY – ISBN 973-708-084-X - D.L.RADU, CRINA STĂVARU, IULIANA CARAS, GINA MANDA, MONICA NEAGU, E. RADU, C. URSACIUC, L.M. POPESCU 2006 Carol Davila Univ. Press

