

## CURRICULUM VITAE

**Nume si prenume:** Norica Beatrice Nichita; **Data si locul nasterii:** 12 Aprilie 1970

**Adresa (locul de munca):** Institutul de Biochimie al Academiei Romane (IBAR), Splaiul Independentei 296, Sector 6, Bucuresti; **Educatie si formare:** (2015) Abilitare conducere doctorat in domeniul Biologie, OM 4718/11.08.2015; (2000-2001) Studii post-doctorale, Universitatea Oxford, Departamentul de Biochimie; (2000) Doctorat in Biologie, specialitatea Biochimie, IBAR; (1993-1994) Bursa TEMPUS, Laboratorul de Oncologie Moleculara, Departamentul de Genetica Umana, Universitatea Catolica Leuven, Belgia; (1988-1993) Licenta, Facultatea de Biochimie, Universitatea Bucuresti.

**Cariera stiintifica:** (din 2014) CS I, IBAR ; (din 2011) Director -adjunct IBAR; (2005-2014) Cercetator Stiintific gradul II, Sef Departament Glicoproteine Virale, IBAR (2001-2005) Cercetator Stiintific gradul III, IBAR si Wellcome Trust "Academic Visitor" (3 luni/an), Universitatea Oxford, Departamentul de Biochimie, Institutul de Glicobiologie (pana in 2007); (2000-2001) Cercetator postdoctoral, bursier Royal Society, Universitatea Oxford, Departamentul de Biochimie, Institutul de Glicobiologie ; (1997-2001) Cercetator Stiintific, IBAR si bursier doctorand NATO-Universitatea Oxford, Departamentul de Biochimie, Institutul de Glicobiologie (3 luni/an, pana in 1999); (1992-1997) Asistent cercetare la IBAR, in Laboratorul de Chimie Biologica, Universite des Sciences et Technologies, Lille (1996, 6 luni, bursa PECO) si in Centre de Recherches sur les Macromolécules Végétales-CNRS, Université Joseph Fourier, Grenoble (1995, 3 luni, bursa PICS).

**Domenii stiintifice de interes:** Biologie celulara si moleculara, biochimia proteinelor eucariote si virale, prezentare antigen, dezvoltare de vaccinuri noi; identificare de compusi cu activitate antivirala, mecanism de actiune ; tehnologia ADN recombinat

**Membru in societati si organizatii:** (din 2016) Vice-presedinte al Comisiei de Biologie si Biochimie a Consiliului National de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare (CNATDCU); (2006-2015) Secretar Stiintific al Societatii Romane de Biochimie si Biologie Moleculara (SRBBM); (2011- 2013) Presedinte al Comisiei de Biologie a Consiliului National al Cercetarii Stiintifice (CNCS); (2011-2013) Membru al Comisiei de Biologie si Biochimie a CNATDCU.

**Evaluare stiintifica:** Evaluare granturi in competitii international, Comisia Europeana(H2020 FETOPEN-1-2016/2017, Marie Curie Fellowships 2016/2017), USA-Israel Binational Science Foundation (2014, 2016); nationale (IDEI, TE, PD). Evaluare pentru jurnale internationale: Hepatology, Autophagy, PlosOne, Gene, Trends in Biotechnology, Molecular Biology Reports, Antiviral Research, Virology, Liver International, Viruses, Current HIV Research, Proteome Science, Melanoma Research, Journal of Gastroenterology and Hepatology, Bioorganic and Medicinal Chemistry

**Premii:** Premiul "Emanoil Teodorescu Award" al Academiei Romane, pentru seria de lucrari pe pestivirusuri (2004)

**Indicatori scientometrici:** *Indice Hirsh (ISI Web of Science): 19; Articole ISI in extenso cu factor de impact : > 40; Articole BDI in extenso: 9; Citări (ISI Web of Science) > 970 Factorul de impact însumat: > 170 ; Capitole carti: 3; Brevete internationale: 3*

### **Lucrari ISI publicate (selectie din ultimii 7 ani)**

1. Liu Clarke J, Paruch L, Dobrica MO, Caras I, Tucureanu C, Onu A, Ciulean S, Stavaru C, Eerde A, Wang Y, Steen H, Haugslie S, Petrareanu C, Lazar C, Popescu CI, Bock R, Dubuisson J and **Branza-Nichita N.** „Lettuce-produced hepatitis C virus E1E2 heterodimer triggers immune responses in mice and antibody production after oral vaccination”. *Plant Biotechnology Journal* pp. 1–11(2017). FI= 7,4
2. Dobrica MO, Lazar C, Paruch L, Skomedal H, Steen H, Haugslie S, Tucureanu C, Caras I, Onu A, Ciulean S, Branza A, Liu Clarke J, Stavaru C, **Branza-Nichita N.** „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". *Antiviral Research*, doi: 10.1016/j.antiviral.2017.06.017 (2017). FI=4,2
3. Lazar, C, Uta, M, Petrescu, SM, Branza-Nichita, N. „Novel function of the endoplasmic reticulum degradation-enhancing alpha-mannosidase-like proteins in the human hepatitis B virus life cycle, mediated by the middle envelope protein". *Cell. Microbiol.*, 19, e12653, DOI: 10.1111/cmi.12653 (2017). FI= 4,5
  4. Carja G, Grosu EF, Petreanu C, **Nichita N** „Self-assemblies of plasmonic gold/layered double hydroxides with highly efficient antiviral effect against the hepatitis B virus." *Nano. Res.*, 8, 3512-3523 (2015). FI=7
  5. Lazar C, Uta M, **Branza-Nichita N**. „Modulation of the unfolded protein response by the human hepatitis B virus". *Frontiers Microbiology* 2014;5:433. doi: 10.3389/fmicb.2014.00433. eCollection (2014). FI=3,9
  6. Rowe IA, Galsinh SK, Wilson GK, Parker R, Durant S, Lazar C, **Branza-Nichita N**, Bicknell R, Adams DH, Balfe P, McKeating JA. "Paracrine signals from liver sinusoidal endothelium regulate hepatitis C virus replication", *Hepatology*, 2014, 59 (2): 375-384. FI= 11
  7. Petreanu C, Macovei A, Sokolowska I, Woods AG, Lazar C, Radu GL, Darie CC and **Branza-Nichita N**. „Comparative Proteomics Reveals Novel Components at the Plasma Membrane of Differentiated HepaRG Cells and Different Distribution in Hepatocyte- and Biliary-Like Cells". *PLoS One*. 2013, 20;8(8):e71859. FI=3,2
  8. Macovei A, Petreanu C, Lazar C, Florian P and **Branza-Nichita N**, „Regulation of hepatitis B virus infection by rab5, rab7, and the endolysosomal compartment". *Journal of Virology* 2013, 87(11):6415-27. IF= 4,6
  9. Lazar C, Macovei A, Petrescu S and **Branza-Nichita N**. „Activation of ERAD pathway by human hepatitis B virus modulates viral and subviral particle production." *PLoS One*. 2012;7(3):e34169. IF=3,7
  10. Dorobantu C, Macovei A, Lazar C, Dwek RA, Zitzmann N and **Branza-Nichita N**. „Cholesterol depletion of hepatoma cells impairs hepatitis B virus envelopment by altering the topology of the large envelope protein." *J Virol*. 2011, 85(24):13373-83. IF 5,4
  11. Pollock S, **Nichita NB**, Böhmer A, Radulescu C, Dwek RA, Zitzmann N. „Polyunsaturated liposomes are antiviral against hepatitis B and C viruses and HIV by decreasing cholesterol levels in infected cells". *Proc Natl Acad Sci U S A*. 2010, 107(40):17176-81. IF=9
  12. Pollock S, Antrobus R, Newton L, Kampa B, Rossa J, Latham S, **Nichita NB**, Dwek RA, Zitzmann N. "Uptake and trafficking of liposomes to the endoplasmic reticulum". *FASEB J*. 2010, 24(6):1866-78. IF=6
  13. Macovei A, Radulescu C, Lazar C, Petrescu S, Durantel D, Dwek R, Zitzmann N and **Branza-Nichita N**. "Hepatitis B virus requires intact caveolin-1 function for productive infection in HepaRG cells". *J. Virol.*, 84, 243-253 (2010). IF= 5,4

#### **Granturi castigate prin competitie ca director de proiect (selectie)**

1. EEA Research Programme: "Development of a cost effective Romania-Norway joint plant-based technology platform for production of vaccines against Human Hepatitis viruses B (HBV) and C (HCV) viruses" Eur 1.121.000,00 (2014-2017)
2. IDEI Grant ID\_84, UEFISCDI : "Cellular and viral molecular factors involved in HBV infection of human hepatocytes" Lei 595.751,93 (2008-2011)
3. Collaborative Research Initiative Grant, Wellcome Trust-UK: "Mechanism of antiviral activity of iminosugar derivatives against Hepatitis B virus", £ 94.750 (2004-2008)
4. International Research Development Award, Wellcome Trust-UK: "Effect of a- glucosidase inhibitors on the morphogenesis of enveloped viruses", £ 85.560 (2001-2004)

#### **Granturi cu industria**

United Therapeutics Grant (USA-Oxford University): "Development of liposome-incorporated iminosugars, as antivirals against HBV", £ 10.000 (2010-2011)

20.11.2017 *Luca*