# **Curriculum vitae**

### **Personal information:**

- Name: Anđela Horvat (b. Runje)
- Title: PhD
- Address: Laboratory for protein dynamics
  - Division of Molecular Medicine Ruđer Bošković Institute Bijenička cesta 54, 10000 Zagreb Croatia
- Phone: 00385-1-4560997 00385-97-7203111
- Fax: 00385-1-4561010
- e-mail: arunje@irb.hr
- Date and place of birth: 30<sup>th</sup> June 1983, Sinj, Croatia

## **Education:**

• 2008-2015, University Postgraduate Interdisciplinary Doctoral Study of Molecular biosciences, Josip Juraj Strossmayer University of Osijek, University of Dubrovnik and Ruđer Bošković Institute, Croatia

22<sup>nd</sup> May **2015**, Defense of **PhD Thesis** entitled "The effect of  $\Delta Np73\alpha$  on the cell cycle control after DNA damage in human cells" in the scientific area of Biomedicine and healthcare, scientific field of Basic medical sciences under the supervision of Neda Slade, PhD, senior scientist (Ruđer Bošković Institute, Croatia) and Vjekoslav Dulić, PhD, staff scientist CNRS (Institute for Molecular Genetics in Montpellier, IGMM, France).

• 2001–2007, B.Sc. in Molecular Biology, Faculty of Natural Sciences and Mathematics, University of Zagreb, Croatia (excellent grades, among 10% best students in the generation)

24<sup>th</sup> May **2007,** Defense of **Undergraduate Thesis** entitled **"Differencies in stability of tumor suppressor p53 protein isoforms"** under the supervision of Neda Slade, PhD, in the Laboratory of Molecular Oncology, Division of Molecular Medicine, Ruđer Bošković Institute.

• **1997–2001**, II High School in Split, Croatia (excellent grades)

### Work experience:

- 2019- , Research Associate in the Laboratory for Protein Dynamics, Division of Molecular Medicine, Ruđer Bošković Institute
- **2018–2019, Postdoctoral fellow**/senior research assistant in the Laboratory for Protein Dynamics, Division of Molecular Medicine, Ruđer Bošković Institute
- 2016–2018, Postdoctoral fellow at Vanderbilt University Medical Center (VUMC, Nashville, TN, USA) in the Department of Surgery and Cancer Biology in the Laboratory of Alexander Zaika, PhD, in the area of *Helicobacter pylori* infection related gastric tumorigenesis
- 2007–2015, PhD student/research assistant under the supervision of Neda Slade, PhD, in the Laboratory of Molecular Oncology, Division of Molecular Medicine, Ruđer Bošković Institute

## **Teaching:**

- 2022- , Assistant Professor/Lecturer on the University Postgraduate Interdisciplinary Doctoral Study of Molecular Biosciences, University of Osijek, Croatia
- 2011, 2012, 2015 and 2018, Teaching assistant in the courses "Methods in molecular biology and medicine" and "Cell cycle control, genome integrity maintenance and cancerogenesis" on the University Postgraduate Interdisciplinary Doctoral Study of Molecular Biosciences, University of Osijek, Croatia

## **Professional training:**

- December **2014**, AKH (Vienna General Hospital) Vienna (Austria), Laboratory for molecular oncology, under the supervision of Professor Robert Zeillinger, PhD
- September December **2008**, Institute of Molecular Genetics in Montpellier (France) financed by the Scholarship of the French Government, under the supervision of Vjekoslav Dulić, PhD
- December 2007, July 2008 and June 2009, Institute of Molecular Genetics in Montpellier (France), Croatian-French Programme «Cogito» under the supervision of Vjekoslav Dulić, PhD
- January **2006** March **2007**, undergraduate thesis work, Laboratory of Molecular Oncology (Division of Molecular Medicine, Ruđer Bošković Institute) under the supervision of Neda Slade, PhD, in the area of tumor suppressor protein p53 isoforms
- July September **2005**, student training, Faculty of Science and Pharmacy, University of Navarra, Pamplona (Spain)
- April June **2005**, Department of Physics, Faculty of Medicine, Zagreb under the supervision of Professor Jasminka Brnjas-Kraljević, PhD
- March 2004 January 2005, student training, Gene Regulation Laboratory (Division of Molecular Biology, Ruder Boskovic Institute) under the supervision of Mary Sopta, PhD, in the area of molecular genetics of yeast *Saccharomyces cerevisiae*

#### **List of Publications:**

- 1. Radić Martina, Vlašić Ignacija, Jazvinšćak Jembrek Maja, **Horvat Anđela**, Tadijan Ana, Sabol Maja, Dužević Marko, Herak Bosnar Maja, Slade Neda. Characterization of Vemurafenib-Resistant Melanoma Cell Lines Reveals Novel Hallmarks of Targeted Therapy Resistance. International Journal of Molecular Sciences. (2022) 23(17):9910.
- Lossaint Gérald\*, Horvat Anđela\*, Gire Véronique, Bačević Katarina, Mrouj Karim, Charrier-Savournin Fabienne, Georget Virginie, Fisher Dan, Dulić Vjekoslav. Reciprocal regulation of p21 and Chk1 controls the cyclin D1-RB pathway to mediate senescence onset after G2 arrest. Journal of Cell Science. (2022) 135(8):jcs259114. \*equal contribution
- Horvat Andela\*, Tadijan Ana\*, Vlašić Ignacija\*, Slade Neda. p53/p73 Protein Network in Colorectal Cancer and Other Human Malignancies. Cancers. (2021) 13(12):2885. \*equal contribution
- 4. Hanžić Nikolina\*, Horvat Anđela\*, Bibić Juraj, Unfried Klaus, Jurkin Tanja, Dražić Goran, Marijanović Inga, Slade Neda, Gotić Marijan. Syntheses of gold nanoparticles and their impact on the cell cycle in breast cancer cells subjected to megavoltage X-ray irradiation. Materials Science and Engineering C: Materials for Biological Applications. (2018) 91:486-495. \*equal contribution
- Horvat Andela, Noto Jennifer M, Ramatchandirin Balamurugan, Zaika Elena, Palrasu Manikandan, Wei Jinxiong, Schneider Barbara G, El-Rifai Wael, Peek Jr Richard M, Zaika Alexander I. Helicobacter pylori pathogen regulates p14ARF tumor suppressor and autophagy in gastric epithelial cells. Oncogene. (2018) 37(37):5054-5065.
- Bhardwaj Vikas, Gokulan Ravindran C, Horvat Anđela, Yermalitskaya Liudmila, Korolkova Olga, Washington Kay M, El-Rifai Wael, Dikalov Sergey I, Zaika Alexander I. Activation of NADPH oxidases leads to DNA damage in esophageal cells. Scientific Reports. (2017) 7(1):9956.
- 7. **Horvat Anđela**, Zaika Alexander I. How does bacterial pathogen Helicobacter pylori control responses to cellular stress? Future Microbiology. (2017) 12:105-108.
- 8. Bhardwaj Vikas, **Horvat Anđela**, Korolkova Olga, Washington Mary K, El-Rifai Wael, Dikalov Sergey I, Zaika Alexander I. Prevention of DNA damage in Barrett's esophageal cells exposed to acidic bile salts. Carcinogenesis. (2016) 37(12):1161-1169.
- 9. Zorić Arijana, **Horvat Anđela**, Slade Neda. Differential effects of diverse p53 isoforms on TAp73 transcriptional activity and apoptosis. Carcinogenesis (2013) 34: 522-529.
- 10. Zorić Arijana, **Horvat Anđela**, Balija Melita, Slade Neda. The Arg72Pro Polymorphism of TP53 in Croatian Population. Croatica Chemica Acta. (2012) 85: 239-243.
- 11. Slade Neda, **Horvat Anđela**. Targeting p73 A Potential Approach in Cancer Treatment. Current Pharmaceutical Design. (2011) 17: 591-602.
- 12. Zorić Arijana, **Horvat Anđela**, Slade Neda. Obitelj gena p53 uloga u razvoju organizma i tumorigenezi. Medicina Fluminensis. (2010) 46: 135-143. (in Croatian)
- Slade Neda, Zorić Arijana, Horvat Anđela. The p53/p63/p73 family of proteins the focus on isoforms and mutants in cancer. Periodicum biologorum. (2010) 112: 425-432.

#### Participation in conferences and workshops:

- 2015, "2<sup>nd</sup> International p53 isoforms workshop", Aix-en-Provence, France, poster
- 2015, "Radiation Biology and Cancer", Essen, Germany, poster
- 2014, HDIR-3 "From Bench to Clinic", Zagreb, Croatia, poster
- 2014, The Innomol Bioimaging Workshop, Zagreb, Croatia
- 2014, "Power of Viral Vectors in Gene Therapy and Basic Science" Summer School Primošten, Croatia, poster
- 2014, The Innomol Proteomics Workshop, Zagreb, Croatia
- 2012, HDIR-2 "From Bench to Clinic", Zagreb, Croatia, oral presentation
- 2012, FEBS3+ Meeting "From molecules to life and back", Opatija, Croatia, poster
- 2011, The 5<sup>th</sup> p63/p73 workshop, Lyon, France, poster
- 2008, "Cellular Signaling and Molecular Medicine", Cavtat, Croatia, poster

### **Professional Memberships:**

- European Association for Cáncer Research (EACR)
- Croatian Association for Cáncer Research (HDIR)
- Croatian Society of Biochemistry and Molecular Biology (HDBMB)
- Croatian Microbiological Society (HMD)

#### Fellowships and awards:

- 2018, Annual Director's Prize for best scientific papers
- 2015, EACR Meeting bursary for participation in the conference "Radiation Biology and Cancer" (Essen, Germany)
- 2014, EACR Poster Prize for best poster at HDIR-3 "From Bench to Clinic" Meeting (Zagreb, Croatia)
- **2014**, FEMS Young Scientist Meeting Grant for participation in "Power of Viral Vectors in Gene Therapy and Basic Science" Summer School (Primošten, Croatia)
- 2008, Scholarship of the French Government
- **2001**, 1<sup>st</sup> place in the State Competition in Biology
- **1999**, 2<sup>nd</sup> place in the State Competition in Geography
- **1999**, 2<sup>nd</sup> place in the State Competition in Latin
- **1997**, 1<sup>st</sup> place in the State Competition in Geography
- 1998 2007, Scholarship for best pupils and students of the town of Kaštela

## Specific knowledges and skills:

#### Languages:

- English fluent
- Spanish fluent
- Italian basic
- German basic

#### **Computer skills:**

- Microsoft Windows, MS Office (Word, Excell, Powerpoint, Outlook)
- Adobe Photoshop, ImageJ, Corel Draw
- FlowJo, ImageLab

#### Driving licence: category B