




**Ivana  
Šimić**

Date of birth: 11/05/1987

Nationality: Croatian

Gender: Female

## CONTACT

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## ABOUT ME

DVM, PhD

## WORK EXPERIENCE

**03/2021 – CURRENT** – Zagreb, Croatia

### Postdoc

Ruđer Bošković Institute

- Human papillomavirus and cervical cancer and biomarkers
- Cell culture (MCF7, HeLa, Caski, Jurkat)
- MicroRNA
- Flow cytometry
- Mass cytometry

**09/2016 – 03/2021** – Zagreb, Croatia

### Research Assistant

Croatian Veterinary Institute

- Cell culture (BHK, MDBK, MDCK)
- PCR, qRT-PCR
- Flow cytometry
- Virus neutralization test, ELISA
- Field work (bat capturing and handling, blood sampling from cattle)

Zagreb, Croatia

**06/2014 – 09/2016**

### Expert Associate

Croatian Veterinary Institute

Zagreb, Croatia

**06/2013 – 06/2014**

### Intern

Croatian Veterinary Institute

Zagreb, Croatia

## EDUCATION AND TRAINING

**19/05/2022 – 22/05/2022** – Poreč, Croatia

### Multidisciplinary Conference on Comprehensive Women's Health

Croatian Society of Pelviperineology with partners

I gave a lecture called Mass cytometry in gynaecological oncology research. The topic was HPV, cervical cancer and the application of the latest technology - mass cytometry in disease.

<https://hdp-csp.hr/>

**02/09/2021 – 30/09/2021** – Prague, Czechia

### Mas cytometry training

Childhood Leukaemia Investigation Prague (CLIP), 2nd Faculty of Medicine, Charles University

**23/10/2015 – 30/09/2019** – Zagreb, Croatia

## **PhD in Biology**

Faculty of Science, University of Zagreb

- Doctoral thesis title: 'The presence of viruses in bats populations in Croatia'

**12/06/2019 – 13/06/2019** – Bucharest, Romania

## **11th workshop for rabies**

ANSES - Nancy Laboratory for Rabies and Wildlife

- Oral presentation about rabies in Western Balkan Countries

**11/02/2019 – 15/02/2019** – Seibersdorf, Austria

## **Regional training course on the use of nuclear derived techniques in diagnosis of the Peste des petits ruminants (PPR) in sheep and goats**

International Atomic Energy Agency (IAEA)

- Introduction to PPR, current situation with the disease and future considerations
- Control strategies for PPR
- Serological techniques for detection of specific antibodies against PPR virus
- Molecular techniques for detection of PPR

**11/10/2018 – 12/10/2018** – Montpellier, France

## **Second combined Peste des petits ruminants / Capripox virus EURL Workshop**

**27/08/2018 – 30/08/2018** – Vienna, Austria

## **11th International Congress for Veterinary Virology - ESVV 2018**

ESVV

- Poster presentation 'Virome of Croatian bat populations'

**13/06/2018 – 14/06/2018** – Brussels, Belgium

## **10th Workshop for Rabies**

ANSES - Nancy Laboratory for Rabies and Wildlife

**04/06/2018 – 08/06/2018** – Ljubljana, Slovenia

## **Training**

Institute of microbiology and immunology

- virus concentration from water sample
- multiplex PCR for rotaviruses
- real-time PCR for rotaviruses
- genotyping of rotaviruses

**08/11/2017 – 10/11/2017** – Belgrade, Serbia

## **Rabies Eradication in Wildlife: Oral Rabies Vaccination (ORV) Campaigns**

BTSE

- Exchange of experience regarding ORV.

**05/10/2017 – 06/10/2017** – Bursseles, Belgium

## **Combined Peste des Petit Ruminants/Capripox virus National Reference Laboratories Workshop 2017**

CODA-CERVA and CIRAD

**13/06/2017 – 15/06/2017 – Budapest, Hungary**

**9th Workshop for Rabies and Rabies Serology Meeting**

ANSES - Nancy Laboratory for rabies and Wildlife

- Oral presentation 'Serological survey of rabies in bats in Croatia'

**24/03/2017 – 25/03/2017 – Zagreb, Croatia**

**Excellence in Horizon 2020 Project Development and Proposal Writing**

Academia for management and project leading

- Horizon 2020 project design
- Generating project ideas
- How to write Excellence, Impact, Implementation
- Demonstration of (un)successful project proposals

**17/11/2016 – Zagreb, Croatia**

**Lumpy skin disease in Europe – present situation and future challenges**

Croatian Academy of Sciences and Arts

- Present situation and future activities of European Commission
- Diagnosis of lumpy skin disease
- Current knowledge on the safety and effectiveness of lumpy skin disease vaccines
- Experiences of diagnosing and control of lumpy skin disease

**23/05/2016 – 04/06/2016 – Nancy, France**

**Training**

ANSES - European Union Reference Laboratory EURL for rabies

- Training in biosafety level 3, virus neutralization test and PCR.

**14/11/2015 – Maastricht, Netherlands**

**ITERA & Fat-Stem: Stem cell therapies in Veterinary Science as a step up towards human applications**

Fat-Stem

- Poster presentation 'Adipose derived mesenchymal stem cells - metamorphosis in cell culture flask'

**09/02/2015 – 20/02/2015 – Zagreb, Croatia**

**Education and training of persons working with laboratory animals - Category 3**

Faculty of Science

- Skills for work with laboratory animals
- Ethics
- Diseases of small rodents

**11/2014 – Rijeka, Croatia**

**Training**

Centre for Proteomics, Medical Faculty

- Basics of flow cytometry and antibody production
- Laboratory animals handling
- Sample preparation for flow cytometry

**31/08/2014 – 05/09/2014 – Zagreb, Croatia**

## Flow Cytometry Course - Principles and Applications

FloCyte Associates

- The goal of the course is to allow participants to gain experience of what a flow cytometer is capable, how to plan, execute and perform polychromatic flow cytometry experiments, how to successfully analyse data obtained and create and present final results.

**2006 – 2013**

## Doctor of veterinary medicine

Faculty of Veterinary Medicine, University of Zagreb

### LANGUAGE SKILLS

**MOTHER TONGUE(S):** Croatian

**OTHER LANGUAGE(S):**

English

**Listening**  
B2

**Reading**  
C2

**Spoken  
production**  
B2

**Spoken  
interaction**  
B2

**Writing**  
B2

### DIGITAL SKILLS

#### My Digital Skills

Microsoft Word / Microsoft Excel / Microsoft Powerpoint / Google Drive / Outlook / Zoom / Skype / LinkedIn

### PUBLICATIONS

#### Human Papillomaviruses-Associated Cancers: An Update of Current Knowledge

**2021** <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8623401/>

Pešut, E; Đukić, A; Lulić, L; Skelin, J; Šimić, I; Milutin Gašperov, N; et al

*Viruses*, 13

#### Current Status of Rabies and Its Eradication in Eastern and Southeastern Europe

**2021** <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8231232/>

Lojkić, I; Šimić, I; Bedeković, T; Krešić, N

*Pathogens*, 10(6)

#### Evaluation of Serological Tests for Detection of Antibodies against Lumpy Skin Disease Virus

**2020** <https://journals.asm.org/doi/10.1128/JCM.00348-20>

Krešić, N; Šimić, I; Bedeković, T; Acinger- Rogić, Ž; Lojkić, I

*Journal of clinical microbiology*, 58

#### Viral Metagenomic Profiling of Croatian Bat Population Reveals Sample and Habitat Dependent Diversity

**2020** <https://www.mdpi.com/1999-4915/12/8/891>

Šimić, I; Zorec, T M; Lojkić, I; Krešić, N; Poljak, M; Cliquet, F; Picard-Meyer, E; et al

*Viruses*, 12

#### In the shadow of COVID-19: Towards declaring a rabies-free Croatia

**2020** [https://hrcak.srce.hr/index.php?show=clanak&id\\_clanak\\_jezik=346488](https://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=346488)

Lojkić, I; Šimić, I; Krešić, N; Lohman Janković, I; Bedeković, T

*Veterinarska stanica*

## ● **Virusni gastroenteritisi u svinja: trenutne spoznaje i izazovi**

2020 [https://hrcak.srce.hr/index.php?show=clanak&id\\_clanak\\_jezik=339199](https://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=339199)

Brnić, D; Šimić, I; Kovačević, A; Krešić, N

*Veterinarska stanica*, 51

## ● **Influence of different factors on the costs and benefits of oral vaccination of foxes against rabies**

2019 <https://onlinelibrary.wiley.com/doi/full/10.1111/zph.12587>

Bedeković, T; Šimić, I; Krešić, N; Lojkić, I

*Zoonoses and public health*, 66

## ● **Novel Circo-Like Virus Detected in a Croatian Bat Population**

2019 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6473148/>

Šimić, I; Zorec, T M; Krešić, N; Poljak, M; Bedeković, T; Lojkić, I

*Microbiology Resource Announcements*, 8

## ● **Molekularne značajke i zoonotski potencijal rotavirusa**

2019 <https://www.paedcro.com/hr/1915-molekularne-znacajke-i-zoonotski-potencijal-rotavirusa>

Šimić, I; Kovačević, A; Krešić, N; Škoko, I; Konjik, V; Jukić Guć, J; Krželj, V et al

*Paediatrica Croatica*, 63

## ● **The emergence of porcine epidemic diarrhoea in Croatia: molecular characterization and serology**

2019 <https://bmcvetres.biomedcentral.com/articles/10.1186/s12917-019-2002-x>

Brnić, D; Šimić, I; Lojkić, I; Krešić, N; Jungić, A; Balić, D; Lolić, M et al

*BMC Veterinary Research*, 15

## ● **Mezenhimske matične stanice u veterinarskoj medicini**

2019 [https://www.scopus.com/record/display.uri?eid=2-s2.0-85065614113&origin=resultslist&sort=plf-f&src=s&st1=mesenchymal+stem+cells+in+veterinary+medicine&st2=&sid=fc36ea83f4bdf721f8be7eab8d3e30b8&sot=b&sdt=b&sl=60&s=TITLE-ABS-KEY\(mesenchymal+stem+cells+in+veterinary+medicine\)&relpos=14&citeCnt=0&searchTerm=](https://www.scopus.com/record/display.uri?eid=2-s2.0-85065614113&origin=resultslist&sort=plf-f&src=s&st1=mesenchymal+stem+cells+in+veterinary+medicine&st2=&sid=fc36ea83f4bdf721f8be7eab8d3e30b8&sot=b&sdt=b&sl=60&s=TITLE-ABS-KEY(mesenchymal+stem+cells+in+veterinary+medicine)&relpos=14&citeCnt=0&searchTerm=)

Krešić, N; Šimić, I; Lojkić, I; Bedeković, T

*Veterinarska stanica*, 50

## ● **Control and elimination of rabies in Croatia**

2018 <https://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0204115&type=printable>

Bedeković, T; Lohman Janković, I; Šimić, I; Krešić, N; Lojkić, I; Sućec, I et al

*PLoS One*, 13

## ● **Genetic analysis of bovine respiratory syncytial virus in Croatia**

2018 <https://www.sciencedirect.com/science/article/abs/pii/S0147957118300584?via%3Dihub>

Krešić, N; Bedeković, T; Brnić, D; Šimić, I; Lojkić, I; Turk, N

*Comparative immunology, microbiology and infectious diseases*, 58

## ● **Molecular and serological survey of lyssaviruses in Croatian bat populations**

2018 <https://bmcvetres.biomedcentral.com/articles/10.1186/s12917-018-1592-z>

Šimić, I; Lojkić, I; Krešić, N; Cliquet, F; Picard-Meyer, E; Wasniewski, M; et al

*BMC Veterinary Research*, 14

## ● **Kuga malih preživača - nova prijatnja stočarskoj proizvodnji?**

2018 <https://www.bib.irb.hr/976528>

Šimić, I; Lojkić, I; Krešić, N; Bedeković, T

*Veterinarska stanica*, 49

## ● **Complete Genome Sequence of a Lumpy Skin Disease Virus Strain Isolated from the Skin of a Vaccinated Animal**

2018 <https://journals.asm.org/doi/10.1128/genomeA.00482-18>

Lojkić, I; Šimić, I; Krešić, N; Bedeković, T

*Genome Announcements*, 6

## ● **Canine Adipose Derived Mesenchymal Stem Cells Transcriptome Composition Alterations: A Step towards Standardizing Therapeutic**

2017 <https://www.hindawi.com/journals/sci/2017/4176292/>

Krešić, N; Šimić, I; Lojkić, I; Bedeković, T

*Stem Cells International*

## ● **Bjesnoća u zvijeri i šišmiša u Republici Hrvatskoj**

2017 <https://www.bib.irb.hr/897605>

Šimić, I; Krešić, N; Lojkić, I; Bedeković, T

*Veterinarska stanica*

## ● **Detection of lumpy skin disease virus in skin lesions, blood, nasal swabs and milk following preventive vaccination**

2017 <https://onlinelibrary.wiley.com/doi/10.1111/tbed.12730>

Bedeković, T; Šimić, I; Krešić, N; Lojkić, I

*Transboundary and Emerging Diseases*, 1-6

## ● **Evaluation of ELISA for the detection of rabies virus antibodies from the thoracic liquid and muscle extract samples in the monitoring of fox oral vaccination campaigns**

2016 <https://bmcvetres.biomedcentral.com/articles/10.1186/s12917-016-0701-0>

Bedeković, T; Šimić, I; Krešić, N; Lojkić, I; Mihaljević, Ž; Sućec, I; Lhman Janković, I; Hostnik

*BMC Veterinary Research*, 12

## ● **Faecal virome of red foxes from peri-urban areas**

2016 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7112549/>

Lojkić, I; Biđin, M; Prpić, J; Šimić, I; Krešić, N; Bedeković, T

*Comparative immunology, microbiology and infectious diseases*, 45

## ● **Detection and molecular characterisation of bovine corona and toroviruses from Croatian cattle**

2015 <https://bmcvetres.biomedcentral.com/articles/10.1186/s12917-015-0511-9>

Lojkić, I; Krešić, N; Šimić, I; Bedeković, T

*BMC Veterinary research*, 11

## ● **Infekcija virusom sindroma smeđeg zeca**

2014 <https://www.bib.irb.hr/740054>

Bedeković, T; Šimić, I; Lojkić, I; Deždek, D; Krešić, N; Sućec, I; Lohman Janković, et al

*Veterinarska stanica*, 45

## ● **Herpesvirusna infekcija pasa**

2014 <https://www.bib.irb.hr/910825>

Šimić, I; Lojkić, I; Krešić, N; Bedeković, T

*Veterinarska stanica*, 6

## NETWORKS AND MEMBERSHIPS

- **Croatian veterinary chamber**
- **Croatian microbiological society**

## PROJECTS

**03/2021 – CURRENT**

- **MACCD - Multifactor analysis of HPV infected cells in cervical cancer development**

Biomarker research to improve the detection and diagnosis of human papillomavirus in precancerous cervical lesions by using flow and mass cytometry.

**2013 – 2021**

- **Oral rabies vaccination of wildlife**

As a collaborator, I was involved in determining the age of foxes and jackals, controlling immunity after vaccination, and preparing manuscripts.

**2018 – 03/2021**

- **Reco**

National project dedicated to investigation of rotavirus A (RVA) in domestic and wild animals, humans and environment.

As a collaborator, I was included in sample collection, RVA genotyping, concentration of viruses from water samples.

**2016 – 2019**

- **BatsRabTrack**

National project dedicated to rabies and other viruses in bats.

As a doctoral student, I was involved in bat capturing, conducting virus neutralization tests on bat blood and next generation sequencing to detect virus diversity in the bat population.

## HONOURS AND AWARDS

**2009**

- **Dean's award for excellence 2008/2009** – Faculty of veterinary medicine

**2010**

- **Dean's award for excellence 2009/2010** – Faculty of veterinary medicine

**2011**

- **Dean's award for excellence 2010/2011** – Faculty of veterinary medicine

**2011**

- **Rector's award** – University of Zagreb

Morphology and immunophenotype of canine lymphoma in Croatia

## COMMUNICATION AND INTERPERSONAL SKILLS

- **Communication and interpersonal skills**

Good presentation and verbal skills acquired through participation in workshops and congresses.

Through participation in research projects gained experience of teamwork and taking responsibility for entrusted tasks within a given time.