



## Selma Pilić

**Nationality:** Bosnian-Herzegovinian **Date of birth:** 12/04/1980 **Gender:** Female

**Phone number:** (+387) 33723726 **Email address:** [selma.pilic@pmf.unsa.ba](mailto:selma.pilic@pmf.unsa.ba)

**Email address:** [selmam\\_@hotmail.com](mailto:selmam_@hotmail.com)

**Work:** Zmaja od Bosne 33, 71000 Sarajevo (Bosnia and Herzegovina)

### ABOUT ME

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Google Scholar Citations: <https://scholar.google.com/citations?user=zc4J65QAAAAJ&hl=hr&oi=ao>

### WORK EXPERIENCE

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#### Vanredni profesor (oblast: Zoologija i Biologija ćelije)

**UNIVERZITET U SARAJEVU - PRIRODNO-MATEMATIČKI FAKULTET** [ 2022 – Current ]

City: Sarajevo

Country: Bosnia and Herzegovina

Vanredni profesor na Odsjeku za biologiju PMF-a Univerziteta u Sarajevu

Predmeti

Odsjek za biologiju: Biologija ćelije, Histologija i embriologija životinja i čovjeka, Reprodukcijska riba

Odsjek za hemiju: Opšta biologija

#### Docent (oblast Razvojnja biologija i Zoologija)

**PRIRODNO-MATEMATIČKI FAKULTET UNIVERZITETA U SARAJEVU** [ 2017 – 2022 ]

City: Sarajevo

Country: Bosnia and Herzegovina

Docent na Odsjeku za biologiju PMF-a u Sarajevu

Predmeti

Odsjek za biologiju: Citologija, Histologija i embriologija životinja i čovjeka, Reprodukcijska riba

#### Viši asistent

**PRIRODNO-MATEMATIČKI FAKULTET UNIVERZITETA U SARAJEVU** [ 2013 – 2017 ]

City: Sarajevo

Country: Bosnia and Herzegovina

Viši asistent na Odsjeku za biologiju PMF-a u Sarajevu

Predmeti

Odsjek za biologiju: Citologija, Histologija i embriologija životinja i čovjeka

#### Asistent

**PRIRODNO-MATEMATIČKI FAKULTET UNIVERZITETA U SARAJEVU** [ 2008 – 2013 ]

City: Sarajevo

Country: Bosnia and Herzegovina

Asistent na Odsjeku za biologiju PMF-a u Sarajevu

Predmeti

Odsjek za biologiju: Citologija, Histologija i embriologija životinja i čovjeka

## EDUCATION AND TRAINING

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### DOKTOR BIOLOŠKIH NAUKA

*Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za biologiju* [ 2012 – 2016 ]

Address: Zmaja od Bosne 33, 71000 Sarajevo (Bosnia and Herzegovina)

### Magistar bioloških nauka

*Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za biologiju* [ 2007 – 2012 ]

Address: Zmaja od Bosne 33, 71000 Sarajevo (Bosnia and Herzegovina)

### Profesor biologije

*Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za biologiju* [ 2002 – 2007 ]

Address: Zmaja od Bosne 33, 71000 Sarajevo (Bosnia and Herzegovina)

## LANGUAGE SKILLS

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Mother tongue(s): **Bosanski jezik**

Other language(s):

**Engleski jezik**

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

## DIGITAL SKILLS

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Microsoft Office / Microsoft Powerpoint / Microsoft Word / Microsoft Excel / Power Point / Good listener and communicator / Team-work oriented / Organizational and planning skills

## PUBLICATIONS

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### **Efficiency assessment of rhizofiltration by *Mentha aquatica* L. of polluted water from urban rivers**

[2022]

Dahija, S., Karalija, E., Bešta-Gajević, R., Pilić, S., Čaušević, A., Đug, S., Muratović, E.

*Desalination and Water Treatment*. Accepted. doi: 10.5004/dwt.2022.29091. WOS (Q4).

### **Interplay of plastic pollution with algae and plants: hidden danger or a blessing?**

[2022]

Karalija, E., Carbó, M., Coppi, A., Colzi, I., Dainelli, M., Gasparovic, M., Grebenc, T., Gonnelli, C., Papadakis, V., Pilić, S., Šibanc, N., Valledor, L., Poma, A., & Martinelli, F.

*Journal of Hazardous Materials*, 438, 129450. <https://doi.org/10.1016/j.jhazmat.2022.129450>. WOS (Q1).

### **Transmission of Cucumber mosaic virus by greater celandine (*Chelidonium majus* L.) seeds.**

[2021]

Bešta-Gajević, R., Jerković-Mujkić, A., Ahmetović, A., Žujo, B., Pilić, S.

*Works of the Faculty of Agriculture and Food Sciences, University of Sarajevo*, LXVI (71/2): 105-113. CABI - CAB -EBSCO.

### **A preliminary study of morphometric characteristics and reproductive potential of the fish species *Cottus gobio* Linnaeus, 1758 on selected sites from Bosnia and Herzegovina.**

[2021]

**Pilić, S.**, Gajević, M., Vesnić, A., Šljuka, S., Korjenić, E., Đug, S., Mušović, A.

*Veterinaria*, 70(3): 293-310. EBSCO - DOAJ - CAB

**The content of essential and toxic metals in the hair of children with autistic spectrum disorders. Bulletin of the Chemists and Technologists of Bosnia and Herzegovina**

[2021]

Pilić, S., Kalić, E., Selović, A.

Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, 56: 13-21. Science Citation Index Expanded.

**Inter-population variability in morphology and reproduction of *Alburnus alburnus* (Linnaeus, 1758) from Bosnia and Herzegovina**

[2020]

Pilić, S., Mušović, A., Gajević, M., Škrijelj, R., Đug, S., Vesnić, A.

Genetics & Applications, 4 (1): 18-29. The Official Publication of the Institute for Genetic Engineering and Biotechnology University of Sarajevo.

**Intensity of oogenesis and spermatogenesis in rainbow trout (*Oncorhynchus mykiss* Wabbaum, 1792) in various microenvironmental conditions**

[2019]

Pilić, S., Mlačo, N., Katica, A., Katica, V., Avdić, R., Tandir, F., Katica, J., Podžo, K.

X International Scientific Agriculture Symposium, "Agrosym 2019", Jahorina, Bosnia and Herzegovina. Book of Proceedings. Faculty of Agriculture, University of East Sarajevo, 1289-1297. CAB

**Cytopathological changes induced by Alfalfa mosaic virus infection in ornamental petunia**

[2019]

Pilić, S., Jerković-Mujkić, A., Dahija, S., Bešta-Gajević, R.

Works of the Faculty of Agriculture and Food Sciences University of Sarajevo, LXIV (69/1): 79-89. CABI - CAB - EBSCO.

**Histological characteristic features of the rainbow trout *Oncorhynchus mykiss* ovaries (Walbaum, 1792) grown in various microambient conditions**

[2018]

Pilić, S., Mlačo, N., Katica, A., Katica, V., Mujezinović, I., Katica, J.

Veterinary Journal of Republic of Srpska (Banja Luka), XVIII (2):326 - 341. CABI - CAB - EBSCO.

**Histological Characteristics of the Skin and Cuticle of the Wool Fibers in Dubska Pramenka and the Use in Industry**

[2017]

Mlaco, N., Bucan, E., Katica, A., Softic, A., Katica, V., Sakić, V., Pilić, S., Katica, J.

Journal of Environmental Science and Engineering A, 6(10): 510-514. CAS - EBSCO.

**Histology studies of the ovaries of Dubska pramenka during gravidity**

[2017]

Katica, A., Mlačo, N., Podžo, K., Katica, J., Čusto, N., Pilić S.

VIII International Scientific Agriculture Symposium, "Agrosym 2017", Jahorina, Bosnia and Herzegovina. Book of Proceedings. Faculty of Agriculture, University of East Sarajevo, 2112-2120. CAB

**Gonadosomatic index values and histological analysis of the rainbow trout (*Oncorhynchus mykiss*) ovary fed with food from two different manufacturers**

[2017]

Pilić, S., Jerković-Mujkić, A., Katica, A., Mlačo, N.

Works of the Faculty of Agriculture University of Sarajevo, LXII (67/2):345-354. CABI - CAB - EBSCO.

## **Comparative histology of testes of brown (*Salmo trutta m. fario*) and california (*Oncorhynchus mykiss*) trout during the spawning period**

[2014]

Mlačo, N., Katica, A., Pilić, S.

Biotechnology in Animal Husbandry, 30(3): 489-497. Science Citation Index - EBSCO

## **Coinfection of *Chenopodium album* L. with Cucumber mosaic virus and Cherry leaf roll virus**

[2013]

Bešta-Gajević, R., Jerković-Mujkić, A., Pilić, S.

Proceedings of the 24<sup>th</sup> International Scientific-Expert Conference of Agriculture and Food Industry-Sarajevo, Bosnia and Herzegovina. Faculty of Agriculture and Food Sciences, University of Sarajevo, 419-422. CABI - CAB – EBSCO.

## **Morphological and histological changes in two different CMV - infected pepper cultivars**

[2013]

Pilić, S., Jerković-Mujkić, A., Bešta-Gajević, R.

Proceedings of the 24<sup>th</sup> International Scientific-Expert Conference of Agriculture and Food Industry-Sarajevo, Bosnia and Herzegovina. Faculty of Agriculture and Food Sciences, University of Sarajevo, 401-404. CABI - CAB – EBSCO.

## **Tabacco necrosis virus isolated from woody and herbaceous plants in Sarajevo area.**

[2013]

Jerković-Mujkić, A., Bešta-Gajević, R., Delić, O., Pilić, S.

Works of the Faculty of Agriculture University of Sarajevo, LVIII (63/1):119-123. CABI - CAB – EBSCO.

## **Reaction of two different cucumber cultivars to cucumovirus infection**

[2013]

Jerković-Mujkić, A., Pilić, S., Bešta-Gajević, R.

Works of the Faculty of Agriculture University of Sarajevo, LVIII (63/1): 19-27. CABI - CAB – EBSCO.

## ***Lamium maculatum* is a Natural Host for Cucumber mosaic virus**

[2013]

Bešta-Gajević, R., Jerković-Mujkić, A., Pilić, S., Stanković, I., Vučurović, A., Bulajić, A., Krstić, B.

Plant Disease, The American Phytopathological Society, 97(1):150-151. Science Citation Index.

## **Weeds and wild plants as natural host of Tobacco rattle virus in the Sarajevo valley**

[2010]

Bešta, R., Jerković-Mujkić, A., Pilić, S.

Herbologia, 11 (1): 59-65. CAB.

## **CONFERENCES AND SEMINARS**

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### **Effects of Water Pollution on Histological Changes in Gills of *Barbus meridionalis* Heckel, 1847.**

[ 2022 ]

Pilić, S., Gajević, M., Bešta-Gajević, R., Žujo, B., Mušović, A., Škrijelj, R.

4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, June, 30<sup>th</sup>-July, 02<sup>nd</sup> Sarajevo. pp. 114.

### **Impact of Water Microbiological and Physicochemical Parameters on Liver Histopathology of *Barbus Meridionalis* Heckel, 1847 from Miljacka River**

[ 2022 ]

Bešta-Gajević, R., Gajević, M., Pilić, S., Žujo, B., Škrijelj, R., Đug, S.

4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, June, 30<sup>th</sup>- July, 02<sup>nd</sup> Sarajevo. pp.113.

### **Unutrašnji simptomi infekcije izazvani virusom mozaika lucerke (Alfalfa mosaic virus) na ukrasnim petunijama**

[ 2018 ]

Pilić, S., Jerković-Mujkić, A., Avdić, E., Raščić, B., Bešta-Gajević, R.

XV Simpozijum o zaštiti bilja u Bosni i Hercegovini. Društvo za zaštitu bilja u BiH, 06-08. 11. Sarajevo, pp. 94.

### **Prenošenje virusa mozaika krastavca sjemenom *Chelidonium majus* L.**

[ 2018 ]

Bešta-Gajević, R., Jerković-Mujkić, A., Raščić, B., Ahmetović, A., Pilić, S.

XV Simpozijum o zaštiti bilja u Bosni i Hercegovini. Društvo za zaštitu bilja u BiH, 06-08. 11. Sarajevo, pp. 93.

### **Uticaj soljenja prometnica na brojnost aktinomiceta i streptomiceta u okolnom tlu**

[ 2018 ]

Raščić, B., Jerković-Mujkić, A., Bešta-Gajević, R., Pilić, S.

XV Simpozijum o zaštiti bilja u Bosni i Hercegovini. Društvo za zaštitu bilja u BiH, 06-08. 11. Sarajevo, pp. 91.

### **Microscopic characteristics of the cuticle of wool fibres in Dubska and Pivska pramenka**

[ 2018 ]

Katica, V., Mlaco, N., Katica, A., Šakić, V., Bučan, E., Katica, J., Pilić, S.

5<sup>th</sup> International Vet-Istanbul Group Congress & 8<sup>th</sup> International Scientific Meeting Days of veterinary medicine, R. of Macedonia, 23.-27. septembar, Ohrid. pp. 142.

### **Comparative study of growth and testicle development of rainbow trout (*Oncorhynchus mykiss*) fed with food from manufacturers Coppens and Skretting**

[ 2017 ]

Pilić, S., Jerković-Mujkić, A., Katica, A., Mlaco, N.

1<sup>st</sup> SouthEast European Ichthyological Conference, Sarajevo, pp. 52.

### **Gonadosomatic index values and histological analysis of the rainbow trout (*Oncorhynchus mykiss*) ovary fed with food from two different manufacturers**

[ 2017 ]

Pilić, S., Jerković-Mujkić, A., Katica, A., Mlaco, N.

28<sup>th</sup> International Scientific-Expert Conference of Agriculture and Food Industry. Sarajevo, pp. 28.

### **Citopatološke promjene u inficiranim biljkama uzrokovane virusom mozaika krastavca izoliranim iz *Buddleia davidii* Franch.**

[ 2017 ]

Pilić, S., Jerković-Mujkić, A., Bešta-Gajević, R.

XIV Simpozijum o zaštiti bilja u Bosni i Hercegovini. Društvo za zaštitu bilja u BiH, 07-09. 11. Mostar, pp. 87.

### **Prvi nalaz virusa mozaika lucerke na vrsti *Malva sylvestris* L. u Bosni i Hercegovini**

[ 2017 ]

Bešta-Gajević, R., Jerković-Mujkić, A., Pilić, S.

XIV Simpozijum o zaštiti bilja u Bosni i Hercegovini. Društvo za zaštitu bilja u BiH, 07-09. 11. Mostar, pp. 88.

### **Leaf anatomy changes in two pepper cultivars caused by CMV infection**

[ 2015 ]

Pilić, S., Jerković-Mujkić, A., Bešta-Gajević, R.

XII Simpozijum o zaštiti bilja u Bosni i Hercegovini. Društvo za zaštitu bilja u BiH, Mostar, pp. 95.

### **Etiology of two virus diseases of lilac (*Syringa vulgaris* L.) occurring in Bosnia and Herzegovina**

[ 2015 ]

Bešta-Gajević, R., Jerković-Mujkić, A., Pilić, S.

XII Simpozijum o zaštiti bilja u Bosni i Hercegovini. Društvo za zaštitu bilja u BiH, Mostar, pp. 95-96.

### **Comparative analysis of morphological and histological changes in two CMV infected *Capsicum annuum* L. cultivars**

[ 2014 ]

Pilić, S., Jerković-Mujkić, A., Bešta-Gajević, R.

XI Simpozijum o zaštiti bilja u Bosni i Hercegovini. Društvo za zaštitu bilja u BiH, Teslić, pp. 81-82.

### **Nalaz miješane virusne infekcije na *Potentilla reptans* L.**

[ 2014 ]

Bešta-Gajević, R., Jerković-Mujkić, A., Pilić, S.

XI Simpozijum o zaštiti bilja u Bosni i Hercegovini. Društvo za zaštitu bilja u BiH, Teslić, pp. 20.

### **Morphological and histological changes in two different CMV - infected pepper cultivars**

[ 2013 ]

Pilić, S., Jerković-Mujkić, A., Bešta-Gajević, R.

24<sup>th</sup> International Scientific-Expert Conference of Agriculture and Food Industry. Sarajevo, pp.183.

### **Coinfection of *Chenopodium album* L. with Cucumber mosaic virus and Cherry leaf roll virus**

[ 2013 ]

Bešta-Gajević, R., Jerković-Mujkić, A., Pilić, S.

24<sup>th</sup> International Scientific-Expert Conference of Agriculture and Food Industry. Sarajevo, pp.136.

### **Morfološke promjene kod dva kultivara paprike (*Capsicum annuum* L.) uzrokovane infekcijom virusom mozaika krastavca (CMV)**

[ 2012 ]

Jerković-Mujkić, A., Pilić, S., Bešta, R.

IX Simpozijum o zaštiti bilja u BiH. Društvo za zaštitu bilja u BiH, Teslić, pp. 14.

### **Comparative analysis of morphological and physiological changes in two CMV infected *Phaseolus vulgaris* L. cultivars**

[ 2012 ]

Pilić, S., Jerković-Mujkić, A., Bešta-Gajević, R.

19. Tagung der Austrian Society of Plant Biology (ATSPB). Lienz, pp. 74.

### **Detection of natural triple virus infection in *Chelidonium majus* L.**

[ 2012 ]

Bešta-Gajević, R., Jerković-Mujkić, A., Pilić, S.

19. Tagung der Austrian Society of Plant Biology (ATSPB). Lienz, pp. 45.

### **Some morphological and physiological changes in two tomato (*Lycopersicon esculentum* L.) cultivars caused by cucumoviruses**

[ 2011 ]

Pilić, S., Jerković-Mujkić, A., Bešta, R.

19<sup>th</sup> Symposium of the Serbian Plant Physiology Society. Banja Vrujci, pp. 86.

## **Reaction of two different cucumber cultivars to cucumovirus infection in Sarajevo region**

[ 2011 ]

Jerković-Mujkić, A., Pilić, S.

22<sup>nd</sup> International Scientific-Expert Conference of Agriculture and Food Industry. Sarajevo, pp.64.

### **PROJECTS**

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#### **PRIMJENA INDIKATORA U PROCJENI STANJA VODOTOKA KANTONA SARAJEVO I BIOREMEDIJACIJA KAO PERSPEKTIVNO RJEŠENJE ZAŠTITE. MINISTARSTVO ZA NAUKU, VISOKO OBRAZOVANJE I MLADE KANTONA SARAJEVO**

[ 2022 ]

Član tima

#### **POVEĆANJE EFIKASNOSTI BIOREMEDIJACIJSKIH PROCESA U SANIRANJU ZAGAĐENIH RIJEČNIH EKOSISTEMA NA PODRUČJU BIH. FEDERALNO MINISTARSTVO OBRAZOVANJA I NAUKE.**

[ 2021 ]

Član tima

#### **DEVELOPMENT OF MASTER CURRICULA IN ECOLOGICAL MONITORING AND AQUATIC BIOASSESSMENT FOR WESTERN BALKANS HEIS (ECOBIAS). UNIVERSITY OF NOVI SAD.**

[ 2020 – 2023 ]

Član tima

#### **IHTIOLOŠKA ISTRAŽIVANJA SLIVA RIJEKE SAVE U FEDERACIJI BOSNE I HERCEGOVINE. AGENCIJA ZA VODNO PODRUČJE SLIVA RIJEKE SAVE.**

[ 2019 ]

Član tima

#### **RIBARSKA OSNOVA ZA RIBOLOVNOPODRUČJE 4 – RIBOLOVNA ZONA 4.2 NA TERITORIJI OPĆINE BIHAĆ.**

[ 2019 ]

Član tima

#### **DETEKCIJA I MOLEKULARNA IDENTIFIKACIJA BILJNIH VIRUSA NA KULTIVISANIM BILJKAMA U FEDERACIJI BOSNE I HERCEGOVINE. FEDERALNO MINISTARSTVO OBRAZOVANJA I NAUKE. FEDERALNO MINISTARSTVO OBRAZOVANJA I NAUKE**

[ 2018 ]

Član tima

#### **IHTIOLOŠKA ISTRAŽIVANJA SLIVA RIJEKE SAVE U FEDERACIJI BOSNE I HERCEGOVINE. AGENCIJA ZA VODNO PODRUČJE SLIVA RIJEKE SAVE.**

[ 2018 ]

Član tima

#### **PPOCJENA EVENTUALNIH POSLJEDICA PROMJENE REŽIMA RADA HE JABLANICA NA BIOLOŠKE ELEMENTE KVALITETA VODE. JP ELEKTROPRIVREDA.**

[ 2017 ]

Član tima

# IHTIOLOŠKA ISTRAŽIVANJA SLIVA RIJEKE SAVE U FEDERACIJI BOSNE I HERCEGOVINE. AGENCIJA ZA VODNO PODRUČJE SLIVA RIJEKE SAVE.

[ 2017 ]

Član tima

## **KNJIGE**

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### **Priručnik za vježbe iz citologije**

[ 2014 ]

Jerković-Mujkić, A., Pilić, S.

Izdavač: Prirodno-matematički fakultet, Univerzitet u Sarajevu.

### **Reprodukcija riba**

[ 2019 ]

Korjenić, E., Pilić, S.

Izdavač: Prirodno-matematički fakultet, Univerzitet u Sarajevu.