



BOOK of **ABSTRACTS**

4th INTERNATIONAL CONFERENCE ON PLANT BIOLOGY (23rd SPPS Meeting)



**6-8 OCTOBER 2022
BELGRADE**

Serbian Plant Physiology Society

**Institute for Biological Research "Siniša Stanković"
National Institute of Republic of Serbia, University of Belgrade**

Faculty of Biology, University of Belgrade

BOOK OF ABSTRACTS
4th International Conference
on Plant Biology
(23rd SPPS Meeting)



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(23rd SPPS Meeting)
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A black and white photograph of a forest. In the foreground, a large, textured tree trunk is visible on the left side. The background shows a dense forest with many trees and branches, creating a complex pattern of light and shadow. The overall scene is a natural, wooded area.

PROGRAMME

THURSDAY 6TH OCTOBER

- 12:00-18:00 **Registration**
- 12:00-14:00 *NEPETOME project workshop (Science Fund of the Republic of Serbia, #Grant No 7749433): "Methodologies for the iridoid diversity investigation within the genus Nepeta" (Botanical Garden "Jevremovac")*
- 18:00-22:00 *Welcoming cocktail and Celebration of SPPS jubilee (Botanical Garden "Jevremovac")*

FRIDAY 7TH OCTOBER

- 09:00-09:15 **Opening Ceremony**

SECTION 2 · PLANT STRESS PHYSIOLOGY

Chairs: Jelena Dragišić Maksimović & Tamara Rakić

- 09:15-10:00 **Keynote: Mondher Bouzayen**
Uncoupling fruit softening from fruit ripening: a paradigm shift of thinking
- 10:00-10:30 **Plenary lecture: Miroslav Lisjak**
*Growth conditions may affect the nutritional quality of wheatgrass (*Triticum aestivum* L.)*
- 10:30-11:00 **Plenary lecture: Hermann Heilmeyer**
The functional role of non-essential elements in the root zone: how interactions between essential and non-essential elements shape the chemical rhizosphere environment
- 11:00-11:30 **Coffee break**
- 11:30-11:50 **Invited talk: Zsófia Bánfalvi**
*Regulation and function of GIGANTEA genes in *Solanum tuberosum* cultivar 'Désirée'*
- 11:50-12:10 **Invited talk: Ingeborg Lang**
Drought or heavy metals – investigating the abiotic stress tolerance in bryophytes
- 12:10-12:30 **Invited talk: Biljana Kukavica**
Flooding and antioxidative response in plants
- 12:30-12:50 **Invited talk: Sonja Milić Komić**
Distinctive regulation of different phenolics biosynthesis by high light and UV-B in three basil varieties
- 12:50-13:05 **Selected talk: Mariana Stanišić**
*What happens with phloretin in plants? – Phloretin real-time effects and post-treatment metabolism in treated *Arabidopsis* seedlings*
- 13:05-13:20 **Selected talk: Danijela Arsenov**
*Fullerenol (C₆₀(OH)₂₄) as a potent stress alleviator against drought and trace-element toxicity in *Alliaria petiolata* (M.Bieb.) Cavara et Grande*
- 13:20-14:00 **Poster session**
- 14:00-15:30 **Lunch break**

SECTION 1 · PLANT GROWTH, DEVELOPMENT, METABOLISM AND NUTRITION

Chairs: Ivana Maksimović & Slavica Ninković

- 15:30-16:00 **Plenary lecture: Panagiotis Kalaitzis**
A prolyl-4-hydroxylase and Arabinogalactan proteins are involved in relocation of tomato abscission zone
- 16:00-16:30 **Plenary lecture: Marjorie Guichard**
State-dependent protein interaction networks of a central regulator of plant growth and metabolism
- 16:30-16:50 **Invited talk: Václav Motyka**
Hormonome and role of desiccation in somatic embryogenesis of conifers
- 16:50-17:20 **Coffee break**
- 17:20-17:40 **Invited talk: Julien Pirrello**
Transition to ripening in tomato fruit needs genetic reprogramming initiated in gel tissue
- 17:40-18:00 **Invited talk: Guido Grossmann**
Robust yet adaptive - morphogenesis and growth regulation in roots
- 18:00-18:20 **Invited talk: Jan Fíla**
The beta-subunit of nascent polypeptide associated complex plays a role in flowers and siliques development of Arabidopsis thaliana
- 18:20-18:35 **Selected talk: Kiril Mishev**
The interaction network of the plant NudC family protein NMig1
- 18:35-19:15 **Poster session**

SATURDAY 8TH OCTOBER

- 09:00-10:00 **SPPS Assembly**

SECTION 4 · ECOLOGY, GENETICS AND EVOLUTION OF PLANTS

Chairs: Branislav Šiler & Sanja Manitašević Jovanović

- 10:00-10:30 **Plenary lecture: Velemir Ninković**
Plant signaling and behavior mediated via volatiles
- 10:30-11:00 **Plenary lecture: Janez Kermavnar**
Impacts of forest management on plant functional traits and ecological conditions in the Dinaric fir-beech forests (Slovenia)
- 11:00-11:30 **Coffee break**
- 11:30-11:50 **Invited talk: Ksenija Jakovljević**
Ecophysiology of metal-hyperaccumulation in plants: what do we know so far?
- 11:50-12:10 **Invited talk: Jelena Milojević**
Elucidation of the mechanism underlying somatic embryo induction in spinach

- 12:10-12:30 **Invited talk: Miroslava Zhiponova**
Catmint (Nepeta nuda L.) Phylogenetics and Metabolic Responses in Variable Growth Conditions
- 12:30-12:50 **Invited talk: Neda Aničić**
Progress in disentangling the diversity of iridoids within the genus Nepeta: surprising biosynthetic and evolutionary insights
- 12:50-13:05 **Selected talk: Denitsa Teofanova**
Distribution, host range, and genetic variability of the holoparasitic genus Cuscuta in Bulgaria
- 13:05-13:20 **Selected talk: Katarina Hočevar**
Variation in Hsp70 and Hsp101 levels in response to experimental warming in Iris pumila L.: an open-topped chamber experiment
- 13:20-14:00 **Poster session**
- 14:00-15:30 **Lunch break**

SECTION 3 - APPLICATION IN AGRICULTURE, PHARMACY AND FOOD INDUSTRY

Chairs: Ana Ćirić & Ana Marjanović Jeromela

- 15:30-16:00 **Plenary lecture: Angelos K. Kanellis**
Aroma formation in Vitis vinifera grape berries
- 16:00-16:30 **Plenary lecture: Ekaterina-Michaela Tomou**
Metabolomic strategy for detecting herbal products' differentiations and potential adulteration
- 16:30-16:50 **Invited talk: Mila Grahovac**
Essential oils and hydrolates in control of plant pathogens
- 16:50-17:20 **Coffee break**
- 17:20-17:40 **Invited talk: Carla Vogt**
Determination of elements, isotopes and organics in plants with high local resolution by mass spectrometric methods
- 17:40-18:00 **Invited talk: Milan Mirosavljević**
Integrating physiological traits in local small grains breeding program
- 18:00-18:20 **Invited talk: Nada Ćujić Nikolić**
Chokeberry, from natural polyphenol resource to promising functional foods and pharmaceuticals
- 18:20-18:35 **Selected talk: Ana Pantelić**
Late embryogenesis abundant (LEA) proteins in Ramonda serbica Panc identification, classification and structural characterization
- 18:35-18:50 **Selected talk: Dejan Stojković**
Supercritical fluid extraction of Chicory reveals its antimicrobial, antibiofilm and wound healing potentials
- 18:50-19:15 **Poster session**
- 19:15-19:30 **Closing Ceremony**
- 20:00-00:00 **Gala Dinner**

The effect of phloretin on root growth and antioxidant activity in selected plant species *in vitro*

PP2-36

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Phloretin is phenolic compound specifically produced in apple tree species and secreted into the soil as a response to biotic and abiotic factors. Since our previous results indicated roots as the primary site of phloretin phytotoxic action, this study focused on assessment of phloretin effects on the root growth of weed (*Chenopodium murale* and *Lotus corniculatus*), crop (*Solanum tuberosum*) and woody species (*Castanea sativa* and *Malus × domestica* Borkh.). Significant decrease in root biomass production in liquid growth medium enriched with 500 µM phloretin was observed both after 2 and 4 weeks of treatment in all tested species. The percentages of roots growth inhibition were as follows: *Chenopodium murale* (95% and 89,1%), *Lotus corniculatus* (69,4% and 81,8%), *Solanum tuberosum* (88,4% and 84,7%), *Castanea sativa* (85,6% and 100%) and *Malus × domestica* Borkh. (65,3% and 87,4%, respectively). Total antioxidant capacity (TAC), total phenolic content (TPC), as well as antioxidant enzymes activities were determined spectrophotometrically in treated and control *Chenopodium murale* roots after 4 weeks of phloretin treatment. TAC increased 44,1% presumably due to elevated TPC (25,8%) in treated roots. However, there were no significant differences in catalase (CAT), guaiacol peroxidase (POD) and superoxide dismutase (SOD) activities in control and treated roots after 4 weeks of treatment. Increased antioxidant activity in treated roots is presumably the consequence of known phloretin antioxidant potential.

Keywords: antioxidant activity, phloretin, phytotoxicity, root growth, total phenolic content

Acknowledgment: This work was supported by the Ministry of Education, Science and Technological Development of the Republic of Serbia, contract number 451-03-68/2022-14/200007.

A black and white photograph of a forest. In the foreground, a large, textured tree trunk is visible on the left side. The background is filled with a dense canopy of trees, with many thin trunks and branches visible. The lighting creates strong shadows and highlights, giving the scene a sense of depth and texture.

AUTHORS INDEX

A

| | |
|-------------------------------------|---|
| Aćimović Milica | 91 |
| Adamakis S. Dimosthenis Ioannis ... | 11 |
| Aktaş Lale | 19 |
| Alimpić Aradski Ana | 22 |
| Alipieva Kalina | 105 |
| Anđelković Boban | 136 |
| Andrejić Gordana | 46, 49 |
| Andrejević Miljana | 117 |
| Aničić Neda..... | 68, 77, 85, 109, 122, 127, 136, 144, 145, 148, 149, 151 |
| Antić Marina | 42, 101 |
| Arrigoni Giorgio | 57 |
| Arsenov Danijela..... | 45 |
| Atanassov Atanas | 135 |
| Avramov Stevan..... | 140, 141, 147 |

B

| | |
|---------------------------------|--|
| Bánfalvi Zsófia | 40 |
| Bangay Gabrielle..... | 108 |
| Banjac Nevena | 44, 72, 73, 81 |
| Banjanac Tijana | 32, 68, 77, 109, 122, 126, 128, 144, 145, 147, 148, 149, 151 |
| Banović Đeri Bojana | 66 |
| Barać Miroljub..... | 97 |
| Barišić Klisarić Nataša | 140, 141, 147 |
| Barros Lillian | 112 |
| Battisti Ilaria..... | 57 |
| Beeckman Tom | 17 |
| Bekavac Goran..... | 74 |
| Belaidi Samia..... | 11 |
| Belić Lela | 31, 84 |
| Belić Maja | 25, 26, 27, 134 |
| Bertran Garcia de Olalla E..... | 15 |
| Billiaderis G. Costas..... | 11 |
| Bita E. Craita..... | 11 |
| Bjedov Ivana..... | 80, 121 |
| Blazakis N. Konstantinos | 11 |
| Bojović Biljana | 34, 82 |

| | |
|-----------------------------|--|
| Bonchev Georgi | 135 |
| Bondokić Jasna | 81 |
| Borisova Preslava..... | 64 |
| Borišev Ivana | 45 |
| Bouzayen Mondher | 11, 14, 37 |
| Božić Dragana..... | 104 |
| Božić Manja | 58, 61 |
| Božović Đorđe | 103 |
| Božunović Jelena..... | 68, 77, 85, 109, 122, 126, 127, 136, 144, 145, 148, 149, 151 |
| Brdar-Jokanović Milka | 79 |
| Brkušanin Miloš..... | 147, 148 |
| Budakov Dragana..... | 91 |

C

| | |
|--------------------------|-----------------|
| Carević Tamara | 112, 116 |
| Chaneva Ganka | 28, 30, 33, 135 |
| Chalot Michel..... | 45 |
| Ciesielska Maria..... | 23 |
| Collot Jordan..... | 45 |
| Cvejić Sandra..... | 74, 120 |
| Cvetić Antić Tijana..... | 50 |
| Cvetkov Venelin | 107, 124, 125 |

Ć

| | |
|---------------------------|-----------------|
| Ćalić Dušica..... | 25 |
| Ćetković Slađana | 52, 53 |
| Ćirić Ana..... | 96, 112, 128 |
| Ćirić Andrija | 34 |
| Ćosić Marija | 47, 48, 51, 103 |
| Ćosić Tatjana..... | 24, 76, 104 |
| Ćuk Nemanja..... | 74 |
| Ćujčić Nikolić Nada | 94 |

Č

| | |
|----------------------|-----|
| Čanak P..... | 119 |
| Čorić Branimir | 146 |

D

| | |
|---------------------------------|---|
| Dahlin Iris | 131 |
| Damnjanović Jelena | 31 |
| Davidović-Plavšić Biljana | 42, 52, 53, 98 |
| Dedić Boško..... | 74 |
| Delić Nenad | 58, 61 |
| Denic Dusan | 11 |
| Denninger Philipp..... | 12 |
| Denzler Anna | 12 |
| Devrnja Nina | 24, 71, 76, 104, 126 |
| Dervišević Marina..... | 84 |
| Dias Maria Inês | 112 |
| Dimitrijević Milena..... | 136 |
| Dinić Jelena | 108 |
| Djari Anis | 14 |
| Dmitrović Slavica | 68, 77, 80, 85, 121, 122, 123, 136, 144, 145, 148, 149, 151 |
| Dobrev Petre | 24, 76 |
| Dojčinović Biljana..... | 97 |
| Dragičević ivana..... | 123 |
| Dragičević Milan | 71, 109, 136, 151 |
| Dragišić Maksimović Jelena..... | 18, 73, 81, 111 |
| Dragoj Miodrag..... | 108 |
| Dražić Tanja..... | 93 |
| Driouich Azeddine | 11 |
| Dudaš Tatjana | 91 |
| Dudić Tijana..... | 29 |
| Duletić-Laušević Sonja | 22 |
| Dunkić Valerija..... | 99 |
| Dušanić Nenad | 74 |

Đ

| | |
|----------------------|-----|
| Đekić Nikolina..... | 21 |
| Đorđević Vladan..... | 139 |
| Đorđević Vuk..... | 74 |
| Đukanović Nina..... | 102 |
| Đurić Marija | 60 |
| Đurović Sanja | 29 |

DŽ

Džamić Ana..... 114, 115
Dželetović Željko 46, 49

E

Eeckhout Dominique 17
Eler Klemen..... 132
Ezzat Lamia 11

F

Ferreira CFR Isabel..... 112
Fíla Jan..... 16
Filipović Biljana..... 32, 68, 77, 109, 122, 144, 148, 149, 151
Fredotović Željana 99
Fuchs Vanessa 12

G

Gadzovska Simic Sonja..... 69, 110
Gajić Gordana 139
Gašić Uroš..... 28, 42, 68, 77, 80, 85, 98, 121, 122, 126, 127, 128, 135, 136,
144, 145, 148, 149, 151
Gesheva Emiliya 56
Georgieva Katya..... 55, 56, 63
Georgieva Zhaneta 33
Germ Mateja..... 67
Chirinos Ximena..... 14
Giba Zlatko..... 47, 60, 80, 123
Giannoutsou Eleni..... 11
Gigova Liliana 56
Gilbert Louis Jean 18
Girek Zdenka 31
Giweli Abdulhmid 22
Gjureci Bedri..... 69
Glamočlija Jasmina 50,96
Glavaš-Trbić Danica..... 79
Glogovac Svetlana 74, 120
Golijan Pantović Jelena 97
Golob Aleksandra 67

| | |
|-------------------------|--------|
| Gombos Sven..... | 12 |
| González G. Anna | 11 |
| Grahovac Nada..... | 74 |
| Grahovac Mila..... | 91 |
| Grubišić Sonja..... | 38 |
| Grdović Isidor..... | 46, 49 |
| Grossmann Guido | 12, 15 |
| Guichard Marjorie | 12, 15 |
| Gvozdenac Sonja..... | 74 |

H

| | |
|-------------------------|---------------|
| Hance Philippe | 18 |
| Hasanagić Dino | 21 |
| Heimler Korbinian | 92 |
| Heilmeyer Hermann | 39 |
| Hinkov Anton..... | 107, 124, 125 |
| Hladni Nada..... | 74 |
| Hočevar Katarina | 138, 142, 143 |
| Hony David | 16 |
| Hrustić Jovana | 113 |

I

| | |
|-------------------------------|-------------------|
| Ignjatović-Mićić Dragana..... | 58, 61 |
| Ilkov Daniel | 19 |
| Ines Dias Maria | 111 |
| Ivanov Alexander..... | 63 |
| Ivanov Marija..... | 96, 112, 116, 128 |
| Ivanova Gabriela..... | 33, 125 |
| Ivanova Lyubomira | 135 |

J

| | |
|--------------------------|------------|
| Jadranin Bojana..... | 51 |
| Jakovljević Dragana..... | 34, 82 |
| Jakovljević Ksenija..... | 133 |
| Janačković Peđa..... | 150 |
| Jančić Ivan..... | 104 |
| Janković Bojan..... | 29 |
| Janošević Dušica..... | 22, 50, 81 |

| | |
|---------------------------------|------------------|
| Jaeger De Geert | 17 |
| Jelić Mihailo | 148 |
| Jocić Siniša | 74 |
| Jocković Milan | 74 |
| Jovanović Mirna | 108 |
| Jovanović Stojanov Sofija | 108 |
| Jovanović Vladan | 29, 80, 122, 123 |
| Jovanović Zorica | 62, 84 |
| Jovičić Dušica | 119 |
| Jose Jeny | 40 |
| Juříček Miloslav | 16 |

K

| | |
|---------------------------------|--------------|
| Kaiser Frederic Christian | 15 |
| Kalaitzis Panagiotis | 11 |
| Kalogerakis Nicolas | 11 |
| Kaloudas Dimitrios | 11 |
| Kanellis Angelos | 89 |
| Kanjevac Milica | 34, 82 |
| Kapchina-Toteva Veneta | 135 |
| Karcheva Zornitsa | 33 |
| Karsai-Rektenwald Flóra | 40 |
| Kermavnar Janez | 132 |
| Khalil Mohab | 11 |
| Kilibarda Nataša | 95 |
| Kiproovski Biljana | 74, 79 |
| Klodová Božena | 16 |
| Koleška Ivana | 21 |
| Kondić Špika Ankica | 74, 119, 120 |
| Koren Anamarija | 79 |
| Kosma Maria | 11 |
| Kostić Aleksandar | 97 |
| Kostić Ana | 108 |
| Kostić Marina | 96 |
| Kovačević Milijana | 46, 49 |
| Kouhen Mohamed | 11 |
| Krasteva Irina | 124 |

| | |
|-------------------------------|-------------------------|
| Kristić Marija..... | 38 |
| Krokida Afrodite..... | 11 |
| Krstić Miloš..... | 74 |
| Krstić Milošević Dijana | 32, 104 |
| Krumov Nikolay..... | 33 |
| Krumova Sashka | 19, 20 |
| Kukavica Biljana | 42, 52, 53, 59, 98, 101 |
| Kumanova Elena..... | 33 |
| Kutnar Lado | 132 |

L

| | |
|------------------------------|--------------------------------------|
| Lang Ingeborg..... | 41, 51 |
| Langari Ariana | 20 |
| Lazaridou Athina | 11 |
| Lazić Dragan..... | 65 |
| Lekić Slavoljub..... | 97 |
| Leontaridou Konstantina..... | 89 |
| Lisjak Miroslav..... | 38 |
| Loc Marta..... | 91 |
| Lolić Svjetlana..... | 59 |
| Lukić Nataša | 42 |
| Lukić Tamara..... | 68, 77, 122, 144, 145, 148, 149, 151 |
| Lupšić Ema | 108 |

Lj

| | |
|-----------------------------|----|
| Ljevnaić-Mašić Branka | 79 |
| Ljubenkov Ivica | 99 |

M

| | |
|----------------------------------|------------------|
| Maksimović Ivana..... | 65, 101 |
| Maksimović Tanja | 59 |
| Maksimović Vuk | 18, 44, 111 |
| Maksimović Zoran..... | 104 |
| Maletić Snežana | 102 |
| Manitašević Jovanović Sanja..... | 138, 142, 143 |
| Mantovska Desislava..... | 30, 33, 105, 135 |
| Maravić Ana..... | 99 |
| Marin Marija | 72 |

| | |
|------------------------------|---|
| Marin D. Petar | 22 |
| Marinšek Aleksander | 132 |
| Marjanović-Jeromela Ana..... | 74, 79, 102, 119, 120 |
| Marjanović Milena..... | 62, 84 |
| Marković Dimitrije..... | 131 |
| Marković Marija..... | 60, 100 |
| Marković Hadžić Stefan..... | 85, 127 |
| Marković S. Tijana | 85, 127 |
| Masi Antonio..... | 57 |
| Matak Lucija | 146 |
| Matejić S. Jelena..... | 114, 115 |
| Matić Nikolina | 103 |
| Matekalo Dragana..... | 68, 77, 109, 122, 136, 144, 145, 148, 149, 151 |
| Mavrić Čermelj Anja | 67 |
| Maza Elie..... | 14 |
| Mazhrakova Nikol..... | 19, 20 |
| Mekkaoui Khansa | 11 |
| Micke Anne..... | 92 |
| Mihailova Gergana..... | 55, 56, 63 |
| Mihajlović Milica | 113 |
| Mikavica Ivana | 139 |
| Mikić Sanja..... | 74 |
| Miklić Vladimir | 74 |
| Miladinović Dragana | 74, 119, 120 |
| Miladinović Jegor | 74 |
| Mileski Ksenija | 114, 115 |
| Miletić Milica | 150 |
| Milosavljević Dragica | 111 |
| Milić Dejana..... | 66, 67, 95 |
| Milić Komić Sonja | 43, 67, 83, 95 |
| Milinčić Danijel..... | 97 |
| Milivojević Jasminka | 111 |
| Miljković Danijela | 140, 141, 147 |
| Milojević Jelena..... | 25, 26, 27, 134 |
| Milošević Snežana..... | 60 |
| Milutinović Milica | 68, 71, 77, 85, 109, 122, 126, 128, 136, 144, 145, 148, 149, 151 |

| | |
|----------------------------|--|
| Minina A. E. Alyona | 15 |
| Mirosavljević Milan | 74, 93 |
| Mishev Kiril | 17 |
| Mišić Danijela | 28, 32, 42, 68, 77, 80, 85, 98, 101, 109, 121, 122, 126, 127, 135, 136, 144, 145, 148, 149, 151 |
| Mišljenović Tomica | 133 |
| Mitrović Aleksandra | 50 |
| Mojović Miloš | 47, 117, 118, 126 |
| Momčilović Ivana | 75 |
| Momčilović Vojislava | 93 |
| Monzer Aline | 11 |
| Motyka Václav | 13, 24, 76 |
| Morina Filis | 57 |
| Mutavdžić Dragosav | 18 |
| Mutić Jelena | 139 |
| Murtić Senad | 21 |

N

| | |
|-----------------------------------|--|
| Nagler Lukas | 41 |
| Nakarada Đura | 47, 117, 118, 126 |
| Nazlić Marija | 99 |
| Nešić Marija | 80, 121 |
| Nestorović Živković Jasmina | 32, 68, 77, 80, 85, 121, 122, 123, 136, 144, 143, 148, 149, 151 |
| Nikos Anezakis | 11 |
| Nikolić Ana | 58, 61 |
| Nikolić Bogdan | 29, 123 |
| Nikolić Ivana | 54, 70 |
| Nikolić Nenad | 83 |
| Ninković Slavica | 24, 44, 72, 73, 81 |
| Ninković Velemir | 131 |
| Novaković Jelica | 150 |
| Novović Katarina | 116 |

O

| | |
|------------------------------|----|
| Oalđe Pavlović Mariana | 48 |
| Odgerel Khongorzul | 40 |
| Ojdanič Nik | 67 |

Ovuka Jelena..... 74

P

Pachedjieva Kalina 137

Pantelić Ana..... 57, 66, 67, 95

Pantelić Danijel..... 75

Papantoniou Dimitra..... 11

Pavlović Suzana..... 31

Paunov Momchil..... 28

Perrakis Andreas 11

Pešić Mirjana 97

Pešić Milica..... 108

Petreš Mladen 91

Petrov Petar 20

Petrova Asya..... 19, 20

Petrova Detelina 135

Petrova Nia..... 20

Petrova Stefani 19, 20

Petrović Luka..... 68, 77, 85 109, 122, 144, 145, 148, 149, 151

Pflender Stephane 45

Petrović Jovana 96

Pirrello Julien..... 14

Plećaš Milan..... 142

Politeo Olivera 146

Podolski Renić Ana..... 108

Popova V. Antoaneta..... 55, 63, 64

Popržen Tatjana..... 100

Potěšil David..... 16

Prijović Mladen..... 123

Prokić Ljiljana 83

Pržulj Novo..... 93

Putnik-Delić Marina 65

R

Radan Mila 99

Radanović Aleksandra 74

Radin Ivan 70

Radić Velimir..... 74

| | |
|--------------------------|--------------|
| Radović Ivana..... | 62, 84 |
| Radulović Olga | 100 |
| Rajković Dragana..... | 74, 119, 120 |
| Railić Ljupka | 52, 53 |
| Raičević Jovana | 142 |
| Rajčević Nemanja..... | 114, 150 |
| Rakić Tamara | 46, 49, 139 |
| Ranđelović Dragana | 139 |
| Raspor Martin | 24, 104 |
| Rašeta Sonja | 101 |
| Rebekić Andrijana | 38 |
| Regad Farid..... | 14 |
| Reimann Jakob..... | 41 |
| Rekanović Emil | 113 |
| Rensing Merlin | 131 |
| Rijo Patrícia | 108 |
| Rizou Myrto | 11 |
| Rogoll Anika | 92 |
| Rogova Mariya..... | 135 |
| Rudić Jelena | 75 |
| Rusanov Krasimir | 28, 30 |
| Rusanova Mila..... | 28, 30 |
| Ruščić Mirko | 99, 146 |

S

| | |
|---------------------------------|----------------------|
| Sabovljević Aneta..... | 47, 48, 51, 103, 133 |
| Sabovljević Marko | 47, 48, 51, 103 |
| Sajid Sumbal | 24 |
| Samardžić Jelena | 54, 66, 67 |
| Savić Jelena | 24, 71, 76, 126 |
| Savić Slađana | 18, 62, 84 |
| Sárvári Éva..... | 55 |
| Schmidt Anika | 41 |
| Schulze X. Waltraud | 12 |
| Sedlarević Zorić Ana..... | 43, 67, 83 |
| Serrano Marcos de Alberto | 17 |
| Shishkova Kalina..... | 107, 124, 125 |

| | |
|-------------------------------|--|
| Shishkov Stoyan..... | 107, 124, 125 |
| Shkondrov Aleksandar | 124 |
| Shrivastava Jagriti | 15 |
| Sikora Vladimir..... | 79 |
| Simova Svetlana..... | 105 |
| Simova-Stoilova Lyudmila..... | 56 |
| Simonović Milica..... | 80 |
| Skaltsa Helen..... | 90 |
| Skorić Marijana..... | 32, 68, 77, 109, 122, 126, 128, 136, 144, 145, 148, 149, 151 |
| Smailagić Dijana | 44, 72, 73, 81 |
| Soković Marina | 96 |
| Soldo Barbara | 99 |
| Solti Ádám..... | 55 |
| Stamenković Nikola..... | 60 |
| Stanišić Mariana..... | 44, 72, 73, 81 |
| Stanley E. Claire | 15 |
| Stefanov Martin | 63 |
| Stevanović Strahinja..... | 70, 95 |
| Stojanov Nadežda | 102 |
| Stojanović Milica..... | 18 |
| Stoychev Svetozar | 20 |
| Stojšin Vera | 91 |
| Stikić Radmila | 62 |
| Stojković Dejan | 77, 96, 112 |
| Storm Carl | 92 |
| Stupar Sofija | 71, 73, 76 |
| Subotić Angelina | 60 |

Š

| | |
|-----------------------|---|
| Šajkunić Sanja..... | 71 |
| Šamec Dunja..... | 78 |
| Šefer Luka..... | 113 |
| Šesták Petr..... | 16 |
| Šešić Milica..... | 98 |
| Šiler Branislav..... | 32, 68, 77, 122, 144, 145, 147, 148, 149, 151 |
| Škondrić Siniša | 98 |
| Šuškalo Nevena..... | 42 |

T

| | |
|---------------------------------|---|
| Takač Verica | 74 |
| Tančić Živanov Sonja..... | 74 |
| Tanović Brankica | 113 |
| Tarasjev Aleksej..... | 140, 141, 147 |
| Tardy Romane | 45 |
| Tarkovská Danuše | 26 |
| Taški-Ajduković Ksenija..... | 106 |
| Teofanova Denitsa | 137 |
| Timotijević Gordana..... | 54, 70 |
| Todorov Daniel..... | 107, 124, 125 |
| Todorovska Marija..... | 110 |
| Todorović Goran | 97 |
| Todorović Miloš..... | 68, 77, 122, 126, 144, 145, 148, 149, 151 |
| Todorović Slađana..... | 22 |
| Todorović Vida | 21 |
| Tomičić Marina | 74 |
| Tomou Michaela Ekaterina..... | 90 |
| Tosheva Anita | 137 |
| Trajković Milena | 81 |
| Trajkovska Martina..... | 69 |
| Trbić Goran | 42 |
| Trifković Jelena..... | 29 |
| Trifković Tanja | 42, 98 |
| Trifunović-Momčilov Milana..... | 60 |
| Trkulja Dragana | 74, 120 |
| Tsacheva Ivanka | 105 |
| Tsonev Tsonko | 19, 20, 63 |
| Tubić Ljiljana | 71, 76 |
| Tusevski Oliver..... | 69, 110 |

U

| | |
|----------------------|----|
| Ugrinović Milan..... | 31 |
|----------------------|----|

V

| | |
|---------------------------|--------|
| Vančetović Jelena..... | 58, 61 |
| Varnava Tello Antri | 11 |

| | |
|-------------------------------|------------------------|
| Vasilev Dimitar..... | 64 |
| Vasileva Ivanina..... | 56 |
| Vassileva Valya | 17, 28, 135 |
| Velikova Violeta | 19, 20, 63 |
| Velitchkova Maya..... | 55, 63, 64 |
| Veljić Milan..... | 115 |
| Veljović Jovanović Sonja..... | 43, 57, 67, 83 |
| Vidović Marija | 43, 57, 66, 67, 83, 95 |
| Vladkova Radka..... | 63 |
| Vogt Carla..... | 92 |
| Vujičić Milorad..... | 47, 48, 51, 103, 133 |
| Vujošević Bojana..... | 119 |
| Vukašinović Ivana..... | 49 |
| Vuko Elma | 99 |
| Vuleta Ana..... | 138, 142, 143 |

W

| | |
|--------------------------|--------|
| Waisi Hadi..... | 29 |
| Wernerová Daša..... | 12, 15 |
| Wiggershaus Bastian..... | 92 |
| Wiche Oliver | 39 |

Y

| | |
|---------------------------|----------------------|
| Ying Shiyu | 14 |
| Yocheva Lyubomira | 135 |
| Yordanova P. Zhenya | 28, 30, 33, 105, 135 |

Z

| | |
|-------------------------------|---------------------------|
| Zacharieva Anna..... | 30 |
| Zagorchev Lyuben | 137 |
| Zanetti Federica | 119 |
| Zdráhal Zbyněk..... | 16 |
| Zein El Zeina..... | 11 |
| Zehirov Grigor | 28 |
| Zečević Veselinka..... | 31, 84 |
| Zeremski Tijana | 74, 102 |
| Zdravković-Korać Snežana..... | 25, 26, 27, 134 |
| Zhiponova Miroslava | 28, 30, 33, 107, 125, 135 |

| | |
|----------------------|-----|
| Zhivkovikj Ana | 69 |
| Zorić Miroslav | 106 |
| Zuber Jan..... | 92 |

Ž

| | |
|------------------------|------------------------------|
| Žarković D. Lazar..... | 114, 115 |
| Živanov Dalibor..... | 106 |
| Živanović Bojana | 43, 67, 83 |
| Živanović Branka | 44 |
| Živković Suzana | 109, 126, 128, 144, 149, 147 |
| Živković Uroš..... | 140, 141, 147 |
| Župunski Milan..... | 15 |