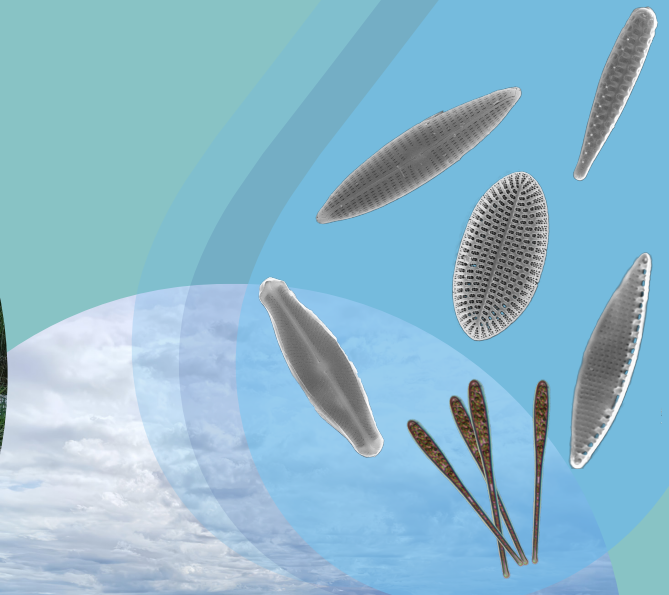


XVI European Diatom meeting

Murcia, 6–10 July 2026



ORGANIZED



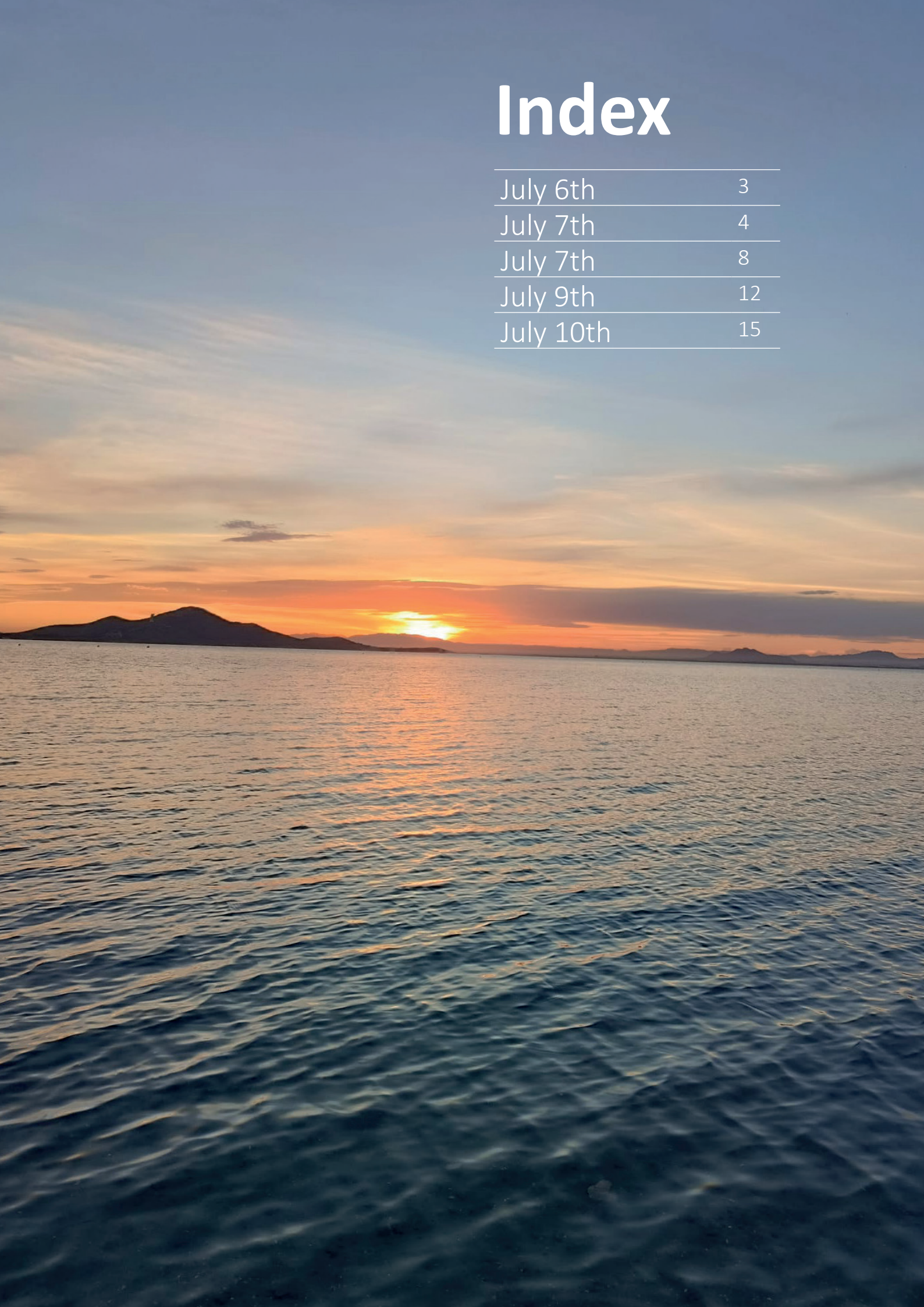
UNIVERSIDAD
DE MURCIA



MICROALGAS EDÁFICAS
DEL SURESTE

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July 6th



Time	Event	Venue
08:00 - 18:00	XVI EDM Registration	Paraninfo Campus La Merced
09:00 - 12:00	The genera <i>Pseudostaurosira</i> and <i>Nanofrustulum</i> in Europe: a morphological and taxonomic overview of all reported species Bart Van de Vijver*, Margaux Pottiez* & Carlos E. Wetzel* Presenters	Room Jorge Guillén Campus La Merced
10:00-13:00	Confocal Microscopy for Diatom Research: Principles and Applications Presenter: M ^a Teresa Coronado-Parra	Servicio de Microscopía (SACE) Campus de Espinardo
09:00-12:00	Digital diatomology and intercalibration Presenters: Michael Kloster & Andrea-Burfeid-Castellanos	Room Mariano Baquero Campus La Merced
15:00 - 18:00	The genera <i>Pseudostaurosira</i> and <i>Nanofrustulum</i> in Europe: a morphological and taxonomic overview of all reported species Bart Van de Vijver*, Margaux Pottiez* & Carlos E. Wetzel* Presenters	Room Jorge Guillén Campus La Merced
	Exploring diatom morphology with Field Emission SEM Presenter: M ^a Teresa Coronado-Parra	Servicio de Microscopía (SACE) Campus de Espinardo
	Diatom ecology through lenses of OPEN and FAIR practices Presenter: Xavier Benito	Room Mariano Baquero Campus La Merced
18:00 - 19:00	Young ISDR presentation + Early Career Researchers (ECRs) networking	Aula (01) Aulario Campus La Merced
20:00	Welcome reception	Ayuntamiento de Murcia (City Hall)

July 7th

	PARANINFO
8:30-9:30	Plenary Lecture The life of marine benthic diatoms in intertidal sediments Graham J.C. Underwood, University of Essex, United Kingdom

	PARANINFO
Session I	Chairs: Manel Leira & María Cid
9:30-9:45	Biodiversity and long-term change in diatom assemblages from streams in the Nepalese Himalaya Ingrid Jüttner, Smriti Gurung, Ian Vaughan, Steve Ormerod, Eileen J. Cox, David M. Williams, Bart Van de Vijver, Carlos E. Wetzel & Dean Jabobsen
9:45-10:00	Multi-Scale Assessment of Water Quality in a Human-Impacted Southwestern Mediterranean Watershed Using Benthic Diatom Bioindicators Soulaïma Azizi, Sondes Melliti Ben Garali, Kaouther Mejri Kousri, Mustapha Béjaoui, Anne Eulin-Garrigue, Abdelhafidh Khazri, Marco Cantonati & Asma Sakka Hlaili
10:00-10:15	Natural or anthropogenic? What drives diatom communities in an urban tropical monsoon-driven river basin? Pratyasha Nayak & Karthick Balasubramanian
10:15-10:30	Taxonomic structure of phytoplankton and phytobenthos, with special emphasis on bioindicator diatoms, in rivers of the Southern Pantanal (MS, Brazil) Lidia Baitiche, Maria Dolores Sendra, Héline dos Santos Nascimento, Alexeia Barufatti, Amanda Nunes de Moraes, Marcus Vinicius Santiago Urquiza, William Marcus da Silva, Rebeca Pérez & Eduardo Vicente
Coffee Break	
Session II	Chairs: Ingrid Juttner & Pratayasha Nayak
11:00-11:15	Assessing European urban stream One Health using diatoms: impacts of climate change and potential rehabilitation Salomé FP Almeida, Rafael Schmitt, António Chen, Ana R. Calapez, Marcos Dias, Fernanda Rodrigues, Dirk S. Schmeller, Rayan Bouchali, Nadia Piscopo, Luigi Eposito, Andréa De Cock, Marie A.E. Forio, Peter Goethals, Anne Moen, Silje H. Henni, May Linn Bokma Mørch & Maria João Feio
11:15-11:30	Enhanced water-level fluctuations due to artificial snow production reduce diatom diversity and threatened Red List species in a high-mountain lake of the south-eastern Alps Marco Cantonati, María Cid-Rodríguez, Nicola Angeli, Abdullah A. Saber, Hassan A. Rudayni & Daniel Spitale
11:30-11:45	Integrating Physicochemical Parameters and Benthic Diatoms to Assess Water Quality in Degraded Mediterranean Surface Waters Soulaïma Azizi, Sondes Melliti Ben Garali, Kaouther Mejri Kousri, Anne Eulin-Garrigue, Marco Cantonati & Asma Sakka Hlaili
11:45-12:00	Contrasting effects of torrentiality and flow regulation on diatom metacommunity dynamics in Mediterranean rivers Manel Leira, Sergi Sabater & Elisabet Tornés
12:00-12:15	Environmental history of Lake Moo (Northern Apennines, Italy) and of its catchment since the last phase of the Little Ice Age as reconstructed from diatom analysis of lake sediments María Cid-Rodríguez, Stefano Segadelli, Yago Nestola, Daniel Spitale, Soulaïma Azizi, Abdullah A. Saber, Lorca Jaber & Marco Cantonati
12:15-12:30	Small Island, Global Connections: Remarkable Diatom Findings from an Isolated Island in the Northwest Pacific Yangrae Rho, Hyesuk Kim & Jinsoo Park
12:30-12:45	A multiscale spatial characterization reveals the main environmental factors shaping diatom communities in marine biofilms Abel Barre, Marc Bouchoucha, Raphaëlle Barry-Martinet, Nicolas Briant, Vincent Baccher, Bruno Dormoy, Pierre Boissery, Annick Ortaño-Magne & Jean-François Briand
13:00-15:00	Lunch Break



	HEMICICLO
Session I	Chairs: Rafał M. Olszyński & Gillaume Marec
9:30-9:45	What exactly is 'Integrative Taxonomy': <i>Hemiaulus</i>, <i>Hemiboschia</i> and the Geography of Extinction David M. Williams & Pat A. Sims
9:45-10:00	Multigene phylogeny and ultrastructure of <i>Entomoneis</i>: bridging evolutionary and taxonomy gaps using cultivated strains Maja Mucko, Sunčica Bosak, Filip Grgurević; Matt P. Ashworth, Thomas A. Frankovich, Andrea Prijić, Sara Buduljak, Ivana Panjkrc, Marija Gligora Udovič, Petra Peharec Štefanić & Zrinka Ljubešić
10:00-10:15	Diversity and Integrative Taxonomy of Marine Benthic Diatoms from Tropical Sulawesi, Indonesia Sulastris Arsad, Małgorzata Bąk & Romain Gastineau
10:15-10:30	The tip of the iceberg: combining phylogenetics, metagenomics, and reproductive experiments to unravel the diversity and biogeography of the marine diatom genus <i>Cylindrotheca</i> Anne-Laura Monten, Yuhao Tong, Zoltán Füßy, Roksana Majewska, Andrew Allen, Wim Vyverman, Gust Bilcke, Heroen Verbruggen & Eveline Pinseel
Coffee Break	
Session II	Chairs: Maja Muczo & Sulastris Arsad
11:00-11:15	Elucidating the molecular mechanisms underlying thermal niche differentiation in the <i>Cylindrotheca closterium</i> complex Guillaume Marec, Svitlana Lukicheva, Daan Deleu, Gust Bilcke, Eveline Pinseel, Klaas Vandepoele, Jana Asselman & Koen Sabbe
11:15-11:30	Polyphasic characterization of <i>Planothidium</i> strains without a sinus or cavum isolated from streams in California, USA Rosalina Stancheva Christova, Laura Aycock, Marina Potapova, Nélida Abarca, Wolf-Henning Kusber, Oliver Skibbe, Jonas Zimmermann, Kalina Monoylov & Regine Jahn
11:30-11:45	Taxonomic study on two new <i>Luticola</i> species inhabiting Korean tidal flats Yebin Jeon, Jinsoo Park, Minseop Kim, Hyesuk Kim & Yangrae Rho
11:45-12:00	<i>Halamphora</i> diversity in Turkish Coasts Cüneyt Nadir Solak, Paul Hamilton, Kalina Monoylov, Tolga Çetin, Alper Uğurluoğlu, Elif Yılmaz, Nesil Ertorun, Buse Özalp, Yelda Aktan, Haşim Sömek, Tuğba Ongun Sevindik, Neslihan Özdelice, Turgay Durmuş & Seher Dirican
12:00-12:15	Hidden diversity of <i>Nitzschia</i> in the Bogdałów post-mining reservoir revealed by integrative taxonomy Rafał M. Olszyński & Piotr K. Zakrzewski
12:15-12:30	What constitutes a stigma? A review of isolated pore structures in raphid diatoms Bart Van de Vijver & Eileen J. Cox
12:30-12:45	The new Springer journal <i>Current Water Management Reports</i>. CWMR: A publishing opportunity of interest also for diatomists? Marco Cantonati.
13:00-15:00	Lunch Break

	CLAUSTRO DE DERECHO
15:00-16:30	POSTER SESSION
Marine Ecology	
P1	Marine Benthic Diatom Diversity in the Adriatic Sea: A Synthesis of Current Knowledge Ana Car, Aydin Kalel, Iris Dupčić Radić & Nika Pasković
P2	Spatial distribution of diatom communities along a transect in the open Southern Adriatic Sea Nika Pasković, Iris Dupčić Radić, Ana Car, Rade Garić & Marija Rusković
P3	Morphological, molecular and genomic investigations of the biodiversity of diatoms from the Can Gio Mangrove Biosphere Reserve, Vietnam Van Duy Nguyen, Romain Gastineau & Duc Hung Nguyen
P4	Benthic diatom flora from the Mar Menor coastal lagoon (SE Spain): biodiversity hotspot in a eutrophicated transitional system Yeraí Gómez-Leyva, María Dolores Belando & Marina Aboal
P5	Diatom abundance and diversity in shallow coastal sediments along the Swedish coast Erik Browaldh, Pauline Snoeijs Leijonmalm, Martin Dahl & Elinor Andrén
P6	The burden of multiple stressors; how microphytobenthic diatom communities respond to increasing numbers of pollutants Toms Ekmanis, Melanie Chocholek & David M. Paterson
Paleolimnology	
P7	Early Holocene diatom assemblages in Lithuanian lakes exhibit regionally synchronous shifts Giedrė Vaikutienė, Liudas Daumantas, Laura Gedminienė & Jonas Satkūnas
P8	Holocene Diatom Records of Environmental and Climate Changes in the Hassi Mouina depression (NW Great Western Erg, Algeria) Bachiri Noureddine, Mansour Bouhameur, Mennad Saci, Hammadaï Ali, Yahiaoui Nassima, Cüneyt Solak, Mammeri Cheikh & Nesil Ertorun
P9	Environmental change in Holocene lacustrine deposits of Hassi Manda in the Erg Er Raoui (Algerian Sahara Desert) based on diatom analysis Ali Hamadaï, Mansour Bouhameur, Paul Brian Hamilton, Cüneyt Nadir Solak, Abdullah A. Saber & Nesil Ertorun
P10	Diatom-Based Reconstruction of Hydrological Changes in Pre-Hispanic Canal-Camellón Systems of the Mompos Depression (Colombia) M ^a Carmen Trapote, Núria Cañellas-Boltà & Encarni Montoya
P11	Seasonal dynamics of diatom assemblages in sediment traps at contrasting depths in Lake Sanabria (NW Spain) Manel Leira, Ana Isabel Negro & Manuel Toro
Freshwater Ecology	
P12	Diatoms as indicators of environmental changes in high-elevation streams and lakes influenced by rock glaciers Łukasz Peszek, Andreas Bruder, Andres Grolimund & Sofie Bruni
P13	How do diatoms adapt to warmer climates? Investigating thermal niche shifts and the role of gene expression evolution Eléonore Pottier, Willem Stock & Eveline Pinseel
P14	Assessing Water Quality in Mediterranean Wetlands Through Diatom Assemblages Adriana Olenici, Irene Medina & Francisco Jiménez-Gómez
P15	Deciphering the spatio-temporal expansion of non-indigenous diatom species in major Iberian river basins (2001–2024) Núria Flor Arnau, Manel Leira & Toni Monleón-Getino
P16	Diatom community structure and bioindicator significance in the Southern Mediterranean semi-arid region: Cheliff Reservoir (Northwest Algeria) Lidia Baitiche, Maria Dolores Sendra, Eduardo Vicente & Juan M. Soria
P17	Microhabitat filtering structures diatom community assembly in Coeur d'Alene Lake, Idaho, USA Hirak Parikh, Ben D. Scofield, Craig Cooper, Jyoti Verma, Daniel G. Gavin & Jeffery Stone
P18	Diatom community structure along physicochemical gradients in siliceous Atlantic rivers: insights from the Mero basin (A Coruña, Galicia, NW Iberian Peninsula) Elena Rodríguez Santos, Manuel Pimentel Pereira & Manel Leira Campos

Saline habitat taxonomy	
P19	Contribution to the diversity of taxonomically problematic small fragilarioid diatoms from a thermomineral spring in Serbia Ana Miličević, Slađana Popović, Bart Van de Vijver & Olga Jakovljević
P20	<i>Diatoma</i> species from saline habitats (Vojvodina Region, Serbia) Danijela Vidaković, Ljubica Vlaović, Frederic Rimet, Jelena Krizmanić, David Williams, Jelena Avdalović & Zlatko Levkov
P21	In search for the identity of <i>Halamphora kolbei</i> (Aleem) Álvarez-Blanco & S. Blanco: analysis of the type material of <i>Amphora incrassata</i> Giffen and comparisons with populations of <i>H. kolbei</i> – group Margaux Pottiez, Sunčica Bosak, Elya P. Pane, Abdullah A. Saber, Cüneyt N. Solak, Paul B. Hamilton, Yenny Risjani & Ralitsa Zidarova
P22	A new <i>Halamphora</i> taxon from Hailuoto Island, Finland Viktoriia Berezovska, Paul Hamilton, Ferhan Yedidağ & Cüneyt Nadir Solak
P23	Diversity of marine benthic diatoms on macrophytes in coastal waters prone to blooms of the toxic dinoflagellate <i>Ostreopsis</i> Adrian Kryk, David G. Mann, Emilio Soler-Onís, Magda Vila, Elisa Berdalet & Rosa Trobajo
Freshwater Taxonomy	
P24	Noteworthy and potentially new <i>Adlafia</i> species from Croatia and North Macedonia Antonija Kulaš, Marija Gligora Udovič, Dunja Jurina, Lina Kovačević, Manuela Spevec, Petar Žutinić & Zlatko Levkov
P25	The <i>Staurosira venter</i> enigma finally revealed? Evidence from historic material Bart Van de Vijver, Agata Wojtal & David M. Williams
P26	Diatom flora in a channel fed by Lake Biwa on the campus of the University of Shiga Prefecture, Japan Akira Hatanaka
P27	Extremophilic <i>Nitzschia</i> species in a Man-Made Environment: Phylogenetic Link to Crimean Volcanic Isolate Rybak Mateusz, Peszek Łukasz & Górecka Ewa
P28	<i>Odontidium</i> or <i>Diatoma</i> – that is the basic question, an integrative approach to morphological and molecular data Julia Sulkowska, Joanna Żelazna-Wieczorek & Rafał M. Olszyński
P29	A study of <i>Amphora biggiba</i> Grunow - species complex: the identity of <i>Amphora binodis</i> Gregory Margaux Pottiez & Ralitsa Zidarova
P30	A new taxon from El Macta marhs in Algeria Ali Hamadai, Paul Hamilton, Mansour Bouhameur, Semiha Şahan & Cüneyt Nadir Solak
P31	Morphological characterisation of an <i>Aulacoseira</i> species (Aulacoseiraceae) from a soft-water lake in northwestern Spain Ana I. Negro & Manel Leira
P32	First record of a centric diatom <i>Pantoscekiella</i> in the Holocene lacustrine deposits of the Great Western Erg (Sahara, Algeria) Mansour Bouhameur
Miscelanea	
P33	www. diatomatlas.mk – A new internet source for diatom taxonomy and ecology Andrej Levkov, Danijela Mitiić Kopanja & Zlatko Levkov
P34	Soil Diatoms – New insights into their diversity and their application as bioindicators for the soil ecological status Katherina Schimani, Konrad Schultz, Nélida Abarca, Wolf-Henning Kusber, Oliver Skibbe, Lara R. Prella, Valentina Savaglia, Ulf Karsten & Jonas Zimmermann
P35	Towards a standardized sample size for morphometric descriptions Saúl Blanco
P36	Progress with the Diatom Flora of Britain and Ireland Ingrid Jüttner, David M. Williams, Edgley Cesar, Eileen J. Cox, Gianfranco Novarino & Martyn Kelly
PARANINFO	
17:00	Red de Diatomistas Hispanohablantes Presentation

July 8th

	PARANINFO
8:30-9:30	Plenary Lecture Genomic insights into the speciation and adaptation of diatom Eveline Pinseel, University of Ghent, Belgium

	PARANINFO
Session I	Chairs: Éva Ács & Hirak Parikh
9:30-9:45	Coupling morphology and metabarcoding reveals diatom community structure across Florida (USA) coastal waters Juan José Pierella Karlusich, Frank E. Muller-Karger, Katherine Silliman, Rosalyn Trinh, Luke R. Thompson & Enrique Montes
9:45-10:00	Metabarcoding Reveals Spatio-temporal Variation of Intraspecific ASVs and Ecological Types in <i>Pseudo-nitzschia</i> Chisato Nakaji, Akihiro Futakabu & Shinya Sato
10:00-10:15	The Villainous Diatoms: unveiling <i>Pseudo-nitzschia</i> spp. in Irish waters through molecular screening and quantification Nicole Caputo, Dave Clarke, Fiona Kavanagh & Luca Mirimin
10:15-10:30	Armchair biogeography: the emerging contributions of metabarcoding to our understanding of marine benthic diatoms David G. Mann, Rosa Trobajo & Elisa Berdalet
Coffee Break	
Session II	Chairs: Shinya Sato & Antonija Kulas
11:00-11:15	Isolated waters, unique diatoms: metabarcoding insights from island streams Paula Mendoza-Casanova, Xavier Benito, David Mann, Frédéric Rimet, Benjamin Alric, Clarisse Lemonnier, Núria Cid, Miguel Cañedo, Raúl Acosta, Marlen Vasquez, Eman Calleja & Rosa Trobajo
11:15-11:30	From microscope to metabarcoding: taxonomic gaps, and transition challenges in freshwater diatom biomonitoring in Luxembourg Carlos E. Wetzel, Demetrio Mora, David Heudre, Cyrille Charles, Sarah Vray, Charlotte Dehu & Lionel L'Hoste
11:30-11:45	DNA metabarcoding reveals seasonal shifts in diatom genetic diversity from communities to intraspecific levels Rafael Schmitt, Aurea Luiza Lemes da Silva, Laurine Viollaz, Frédéric Rimet, Maria João Feio & Salomé F. P. Almeida
11:45-12:00	One gamete, one genome: generating homozygous clones in <i>Amphora commutata</i> Shinya Sato & David G. Mann
12:00-12:15	From individual cells to natural populations: uncovering sexual reproduction in centric diatoms using single-cell RNA sequencing and metatranscriptomics Nadine Rijsdijk, Gust Bilcke, Thomas Eekhout, Michiel Perneel, Rik Debeer, Peter Chaerle, Guillaume Marec, Svitlana Lukicheva, Koen Sabbe, Klaas Vandepoele & Wim Vyverman
12:15-12:30	Evolutionary specialization and canalization within the family Stauroneidaceae Elena Jovanovska & Karolina Masarova
13:00-15:00	Lunch Break



	HEMICICLO
Session I	Chairs: Anna Ticha & Nuria Flor
9:30-9:45	OrgaCount: An online tool for processing diatom data within an integrated platform Dushica Zaova, Thomas Raabe, Cordula Maguire & Ardelean Adorian
9:45-10:00	From AI models to reproducible web workflows: standardized microscopy-based analysis for freshwater and marine diatoms Gloria Bueno, Maria Blanco, Lucía Sánchez, Jesús Ruiz-Santaquiteria & Gabriel Cristóbal
10:00-10:15	Improving European biodiversity research – diatom digital imaging in DNAqualMG Michael Kloster, Dina Abdelmguid, Andrea Burfeid Castellanos, Benoit Paix, Maxime Beauvais, Frédéric Rimet, M. Kahlert & B. Beszteri
10:15-10:30	Diatom Collections: The Pillars of Diatom Research Andrew-Charles Podzorski, Nélide Abarca, Edgley Cesar, Regine Jahn, Wolf-Henning Kusber, Tanja Schuster, Bart Van de Vijver & David Williams
Coffee Break	
Session II	Chairs: Ana Car & Michael Kloster
11:00-11:15	Fluorometric Approach for the Measurement of Benthic Diatoms in Biofilms Detlev Lohse
11:15-11:30	Implementing the Imaging FlowCytobot in the Gulf of Naples (Mediterranean Sea) for the study of planktonic diatom diversity and ecology Melpomeni Sofia Mente, Eleonora Scalco, Roberta Piredda, Adriana Zingone & Diana Sarno
11:30-11:45	DiatomS mEEt Databases (SEED): resources and practices to enable large-scale ecological research Xavier Benito, María Luján García, Sabrina Bustos, Sandra Garces-Pastor & the Seed network
11:45-12:00	DIASPORE: An open bibliographic database synthesizing 180+ years of diatom research in Spanish-speaking countries Carina Seitz, Manel Leira, Carlos F. Rodríguez-Gómez, Luis Castro-Cera, Amelia A. Vouilloud, Susana Chamorro, Saúl Blanco, Alejandra Goldenver-Vilar, José De García, Cristina Delgado, Einer A. Sepúlveda-Zúñiga, Laura Pérez, Laura Lopera Congote, Liz E. Romero, Carolina Cuña-Rodríguez, Eberto Novelo, Gustavo Baffico & Rosa Trobajo
12:00-12:15	A forensic framework for lossless diatom extraction and quantitative site determination Tomáš Bešta, Hana Hamrová, Petr Tomášek, Petra Dohnalová, Jana Markvartová, Tomáš Hauer, Tereza Švejdová, Katerina Zubícková, Iva Zagatová, Radek Lefnar, Eva Tomášková & Jan Kaštovský
13:00-15:00	Lunch Break

	PARANINFO
15:00-16:00	Flash Talks
	CLAUSTRO DE DERECHO
16:00-17:30	POSTER SESSION
Genomics	
P37	“Tiny but Important” – Benthic Diatoms of the Baltic Sea (BENKIESO): Developing the Foundations for Innovative Biodiversity Monitoring Methods Using eDNA and AI-Assisted Image Analysis Jonas Zimmermann, Bánk Beszteri, Ulf Karsten, Dimitra Ketesidou, Michael Kloster, Jan Kollár, Lara R. Prella, Katherina Schimani & Konrad Schultz
P38	Exploring Diatom Biodiversity on the Polish Baltic Coast Using Molecular and Microscopic Methods Ewa Górecka, Przemysław Dąbek, Elif Yilmaz, Romain Gastineau, Van Duy Nguyen & Agnieszka Kierzek
P39	Optimizing Diatom Identification: A Comparative Analysis of Genomic Classifiers, Sequencing Approaches, and Reference Databases Daniel Munzón, Josep Piñol, Miquel Àngel Senar, Jordi Catalan, Elena Fagin & Marisol Felip
P40	Trait–Environment interactions provide evidence for key evolutionary innovations in <i>Diploneis</i> from Lake Tanganyika Karolina Masarova & Elena Jovanovska
P41	Four High-Quality Reference Genomes Expand Genomic Resources for Pennate Diatoms Daan Deleu, Svitlana Lukicheva, Guillaume Marec, Anne-Laura Monten, Gust Bilcke, Wim Vyverman, Koen Sabbe, Klaas Vandepoele & Eveline Pinseel.
P42	DNA-based validation of hydromorphological typology based on phytobenthic communities in rivers and lakes Éva Ács, Zsuzsa Trábert, Judit Knisz, Balázs Tibor Kunkli, Katalin Nagy, Tibor Bíró, Tihamér Keve Kiss, Edit Vadkerti & Gábor Várbró
Collections and intercalibrations	
P43	Observation on the genus <i>Microcostatus</i> Johansen & Sray (Bacillariophyceae) in Macedonia Danijela Mitic' Kopanja, Mateusz Rybak & Zlatko Levkov
P44	Digital diatom taxonomic intercalibration and harmonization – Lessons learned from the first exercise Michael Kloster, Dina Abdelmguid, Andrea Burfeid Castellanos, Marco Cantonati, Elisa Falasco, Eva Herlitz, David Heudre, Martyn Kelly, Zlatko Levkov, Juha Miettinen, Rafal Olszyński, Benoit Paix, Bart Van de Vijver, Geurt Verweij, Danijela Vidakovic, Maria Kahlert, Frédéric Rimet & Bánk Beszteri
P45	The Central Collection of Algal Cultures (CCAC) at the University of Duisburg-Essen Olga Matantseva, Andrea M. Burfeid Castellanos & Bánk Beszteri
P46	Diatom dictionary: enabling taxonomy harmonization through reproducible workflows Xavier Benito & Anna Tichá
P47	Connecting Diatom Collections: a first step Nélida Abarca, Edgley Cesar, Regine Jahn, Wolf-Henning Kusber, Andrew-Charles Podzorski, Tanja Schuster, Bart Van de Vijver & David Williams
P48	Ensuring Reproducibility and Taxonomic Consistency in Diatom Analysis: Intercomparison Exercises Pepita Nolla-Querol, Núria Llauredó-Nolla & Lu Vilaseca Juan
P49	Towards a diatom reference collection in the Canary Islands: integrating cultures, morphology, and genetics Irene Cáceres Barrera, Mariano Nicolás Hernández Ferrer, Marta Sansón & Nereida María Rancel Rodríguez
Forensic Sciences and other applications	
P50	Diatoms and other siliceous microorganisms as complementary forensic indicators in drowning diagnosis Merle Dorsch
P51	Sequential Deep Eutectic Solvent Fractionation of Diatom Biomass: Towards Integrated Recovery of Frustules and Organic Compounds Filipe Vinagre, Carl Edsbagge, Simon Nilsson & Angela Wulff
P52	Evaluation of dual-yield potential of lipid and silica co-production in <i>Craspedostauros</i> sp. Carl Edsbagge
P53	Analysis of Diatoms in Animal Tissues as a Forensic Tool Ylenia López-Molina, Teresa Coronado-Parra & Marina Aboal
P54	Can diatoms power the future of nanocomposites? Przemysław Dąbek, Piya Roychoudhury, Aleksandra Golubeva, Ewa Górecka, Rahul Bose & Andrzej Witkowski
	CAMPUS GARDEN
17:30-18:00	Flash Talks Wrap-Up (refreshments sponsored by Young ISDR)



July 9th

	PARANINFO
	Plenary Lecture Unraveling diatom communities in temporary rivers: taxonomic and functional perspectives Helena Novais, University of Évora, Portugal

	PARANINFO
Session I	Chairs: Salomé Almeida & David Williams
9:30-9:45	Ecology of Diatom Communities in Mediterranean Disconnected Pools Guillermo Quevedo-Ortiz, Saúl Blanco, Núria Cid, Julie Crabot, Zeynep Ersoy, Pau Fortuño, Zeus Freixinos, Fernanda Gonzalez-Saldias, Manuel Jesús López-Rodríguez, Nieves López-Rodríguez, Eva Pérez-Lajarán, Martí Piñero-Fernández, Frédéric Rimet, Neftalí Robles, María del Mar Sánchez Montoya, Carlota Sánchez-Campaña, Judit Sánchez-Nogueras, María Soria, José Manuel Tierno de Figueroa, María Verdugo Althöfer, Bonada & Joan Gomà
9:45-10:00	The diatom side of a toxic dinoflagellate bloom: diversity, dynamics, and indicators from a Mediterranean reef Rosa Trobajo, Adrian Kryk, Alba Garriga, Elisa Berdalet, Sofía Ibáñez, Magda Vila & David G. Mann
10:00-10:15	From the Atlantic to the Mediterranean: how environmental factors, colonisation kinetics and polymer type shape diatom diversity in the plastisphere Abel Barré, Véronique Lenoble, Ana Luzia Lacerda, Maria Luiza Pedrotti, Raffaella Casotti, Carola Murano, Vincenzo Donnarumma, Soledad Muniategui-Lorenzo, José M. Andrade-Garda, Verónica Fernández-González, Carmen Moscoso-Pérez, Felipe Kessler, Róisín Nash, Fanny Aulanier, Raphaëlle Barry-Martinet, Marc Bouchoucha, João Frias & Jean-François Briand
10:15-10:30	Epiphytic diatoms associated with the invasive alga <i>Sargassum muticum</i> Natalie Reali, Angela Trocino, José Maria Monserrat & Dariano Krummenauer
Coffee Break	
Session II	Chairs: David G. Mann & Carlos E. Wetzel
11:00-11:15	Seasonal dynamics of benthic diatom communities in saline lakes: a metabarcoding and microscopy approach Ljubica Vlaović, Antonija Kulaš, Clarisse Lemonnier, Frédéric Rimet & Danijela Vidaković
11:15-11:30	Climate-driven alterations in arctic light regimes reshape diatom physiology and phenology Jordan Toullec, Johann Lavaud & Brivaëla Moriceau
11:30-11:45	Shrinking glaciers shape Alpine glacier-fed stream diatom communities: Insights from DNA metabarcoding Hristina Kochoska, Jan Kollár, Kateřina Kopalová, Michael Styllas, Leila Ezzat, Grégoire Michoud, Hannes Peter, Susheel Bhanu Busi, Tom J. Battin, & Tyler J. Kohler
11:45-12:00	Biogeographic Contrasts in Soil Diatoms: from Antarctic Endemism to Bipolar Distribution Daan Deleu, Wade R. Roberts, Andrew J. Alverson, Wim Vyverman & Eveline Pinseel
12:00-12:15	The potential of the diatom guild membership as an indicator of biofilm responses to drought and recovery Mimoza Dani, Sára Beszteri, Willem Kaijser, Andrea Burfeid Castellanos, Michael Kloster & Bánk Beszteri
12:15-12:30	A taxonomical and molecular approach on some new taxa from highly alkaline spring in Türkiye Cüneyt Nadir Solak, Paul Hamilton, Tuğba Ongun Sevindik, Muharrem Balci, Turgay Durmuş, Alican B. Semerci, Rabia Sezgin, Özden Fakioğlu, Neslihan Balkis, Ferhan Yedidağ, Semiha Şahan, Yiğit Suyun, Soner Atik & Ömer Öztürk
12:30-12:45	Dealing with light: comparative photophysiological responses of intertidal and subtidal <i>Pleurosigma strigosum</i> inhabiting sediment of the Bay of Brest. Zoé Guillaume
13:00-15:00	Lunch Break



	HEMICICLO
Session I	Chairs: Hristina Kochoska & Cüneyt Nadir Solak
9:30-9:45	Strong spatial structuring of diatom communities across Antarctic cryoconite holes. Raquel Viso, Jan Kollár, Kateřina Kopalová, Linda Nedbalová, Josef Elster, Flavia Dory, Barbara Leoni, Carla Puigdomenech, Diane M. McKnight & Tyler J. Kohler
9:45-10:00	Reading the soil through diatoms: The SDI (Soil Diatom Index) as a scalable biomonitoring framework Carlos E. Wetzel, Frederic Rimet & David G. Mann
10:00-10:15	Revision and validation of the MDIAT for ecological status assessment of coastal rivers in Galicia (NW Spain) Cristina Delgado, María Cid-Rodriguez & Isabel Pardo
10:15-10:30	Implementing Freshwater Protected Areas: Integrating Ecological Indicators, Governance and Policy Frameworks Helena I. L. Valentim, Salomé F. P. Almeida, Sérgio Bruno de Araújo Gonçalves da Costa, Simone da Graça Pinto Varandas, Luciano F. A. Montag, Francisca C. Aguiar, Ana Filipa Filipe, Pedro Macedo, Virgílio Hermoso, Isabel Pardo, Núria Bonada, Sergi Sabater, Ronaldo Sousa, Renata Ruaro, Gorazd Urbanič, Marcos Callisto, Daniele Jovem-Azevêdo, Joaquim Jesus, Joseline Molozzi, Marie Anne Eurie Forio, Simon Linke, Juliette Tison-Rosebery, Rui M. V. Cortes, Sara C. Antunes, Carlos Bernardo Mascarenhas Alves, Evaldo de Lira Azevêdo, Ana Raquel Santos Agra & Maria João Feio
Coffee Break	
Session II	Chairs: Joan Gomá & Elena Pérez- Rubín Jiménez
11:00-11:15	Beyond structure and energy storage - exploring the functions of extracellular diatom polysaccharides Leonard Rößler & Jan-Hendrik Hehemann
11:15-11:30	Quantifying single-cell elemental quotas of diatoms to assess biogeochemical export fluxes in the Denmark Strait Irene Llamas-Cano, Mariona Segura-Noguera, Andrés S. Rigual-Hernández, David Amblas & Anna Sanchez-Vidal
11:30-11:45	Small warming, big shift: temperature-induced transition from carbon sink to source for in diatom-dominated intertidal sediments along European shorelines Jérôme Morelle, Audrey Teillet, Vincent Le Fouest, Philippe Rosa, João Sérôdio, Bruno Jesus, Koen Sabbe, Daphne van der Wal, Ana Sousa, Sokratis Papaspyrou, Alfonso Corzo, Vona Méléder & Johann Lavaud
11:45-12:00	Exploring the in vivo optical properties of the benthic pennate diatom <i>Pleurosigma strigosum</i> in subtidal sediments: characteristics, origins, and possible biological role Lou-Hannah Dichant, Anna Isaia, Florie Ogor, Lourenço Ribeiro, Aude Leynaert, Kevin Heggarty & Johann Lavaud
12:00-12:15	Stochastic and deterministic processes influencing mountain mire diatom communities across spatial scales Fernanda Gonzalez-Saldias, Angel Rain-Franco, Joan Gomà, Jorge García-Girón & Aaron Pérez-Haase
12:15-12:30	Seasonal and spatial bloom dynamics of diatoms in the western Mediterranean Sea (1994–2023) Elena Pérez-Rubín, Nerea Valcárcel-Pérez, Sophia Ouaisa & J.M. Mercado
13:00-15:00	Lunch Break

	CLAUSTRO DE DERECHO
15:00-16:30	POSTER SESSION
Role of diatoms in food and biogeochemical cycles	
P55	Isolation and characterization of cultivable epiphytic diatoms from commercial Atlantic nori <i>Porphyra umbilicalis</i> and <i>P. dioica</i> Natalia Rodrigues, Helena David, Guilherme Chaves, M. Luísa Dâmaso Rodrigues, Madalena Caria Mendes, André C. Perreira, Inês Oliveira, Margarida Martins, Rodrigo Costa, Lourenço Ribeiro, Tina Keller-Costa & Ana Amorim
P56	A sugary perspective at diatoms Leonard Rößler & Jan-Hendrik Hehemann
P57	Phytotoxic activity of <i>Caulerpa prolifera</i> methanolic extracts on the benthic diatom <i>Fistulifera saprophila</i> from the eutrophic Mar Menor coastal lagoon Yerai Gómez-Leyva, Annamaria Albanese & Marina Aboal
Epiphytes and symbionts: microhabitats and ecological relationships	
P58	Diatoms from intermittent rivers across European biogeography Andrea M. Burfeid Castellanos
P59	Influence of Physico-Chemical Factors on Periphytic Diatoms in South Adriatic Marine Lakes Iris Dupčić Radić, Ana Car, Dubravka Hafner & Nika Pasković
P60	Freshwater Diatoms of the Canary Islands: Environmental Drivers of Their Assemblages Paula Mendoza-Casanova, Xavier Benito, Raúl Acosta, Javier Sigró, José María Fernández-Calero, Miguel Cañedo-Argüelles, Núria Cid & Rosa Trobajo
P61	Epiphytic diatoms associated with the invasive alga <i>Ulva australis</i> Natalie Reali, José Maria Monserrat, Dariano Krummenauer & Angela Trocino
P62	Effects of structural improvement measures on diatom communities within the urban area of Braunschweig (Germany) Mahmud Assaf & Anja Schwarz
P63	Experimental Studies of Biotic Interactions Among Diatoms Guilds Phillip Mones, Mimoza Dani, Sára Beszteri & Bánk Beszteri
Bioindicators in the Water Framework Directive and marine monitoring	
P64	Freshwater <i>Cocconeis</i> species (Bacillariophyceae) in northern Italy: new findings and implications for quality assessment Francesca Ciutti, Carlos E. Wetzel, Demetrio Mora, Adriano Boscaini, Andrea Chemello, Gabriele Consoli, Filippo Faccenda, Nico Salmaso & Cristina Cappelletti
P65	Diversity of Achnanthes (Bacillariophyceae) in a mountain lake in Italy Francesca Ciutti, Ulrike Obertegger, Marco Bertoli, Elisabetta Pizzul, Paolo Pastorino, Marino Prearo & Cristina Cappelletti
P66	From soda lakes to hot springs and freshwaters: Diatom biodiversity patterns in a low impacted area of the Songwe River basin (Southern Tanzania) Joan Gomà, Daniel von Schiller, Azaria Stephano Lameck & Andrea Butturini
P67	A new <i>Craticula</i> species (Stauroneidaceae) discovered via citizen science Jennifer Paola Moyón Dávila
P68	Ecohydrogeological characterization of spring ecosystems in strategic zones to support long-term monitoring and conservation: The case study of the Emilia-Romagna Region (Italy) Lucia Piana, Soulaïma Azizi, Enrico Dinelli, Maria Filippini, Alessandro Gargini, Nicolas Greggio, Andrea Mustoni, Alessandro Petraglia, Laura Pezzolesi, Abdullah Saber, Federico Santi, Daniel Spitale, Marcello Tomaselli, Flavia Tromboni, Mara Simonazzi, Marco Cantonati & Stefano Segadelli
P69	Diatom communities in mountain rivers hosting aquaculture activities: a case study from Trentino (Northern Italy) Cristina Cappelletti, Andrea Chemello, Adriano Boscaini, Gabriele Consoli, Filippo Faccenda, Nico Salmaso & Francesca Ciutti
Soil diatoms and their use in bioindication	
P70	Assessing the interplay between habitat tolerance and competitive performance on mountain mire diatoms Fernanda Gonzalez-Saldias, Angel Rain-Franco, Aaron Pérez-Haase & Joan Gomà

P71	Observations on formation of internal valves in edaphic nitzschioid diatoms from abandoned mining soils in Murcia, Spain Teresa Coronado-Parra, Ylenia López-Molina & Marina Aboal
Diatoms in extreme environments and neglected habitats	
P72	Diatoms of the hypersaline environment of Pag Saltern, Croatia Lina Kovačević, Manuela Spevec, Dunja Jurina, Sunčica Bosak, Antonija Kulaš, Antonija Matek, Petar Žutinić, Zlatko Levkov, Zrinka Ljubešić, & Marija Gligora Udovič
P73	Diatom diversity along the Quebrada–Bofedal–Salar continuum of Andean Salares (Chile): Environmental gradients and Conservation Implications under Lithium mining pressure Joan Gomà, Catalina Vasquez, Fernanda Gonzalez-Saldías, Angel Rain-Franco, Javiera Avila, Brayan Bravo, Jose Miguel Bogdanovich & Luis Figueroa-Fabrega
P74	Experimental evidence of the driving role of physical constraints in regulating diatom seasonal development in high altitude Alpine streams Mónica Tolotti, Giulia Bertolotti, Stefano Brighenti, Leonardo Cerasino, Matteo Delpero, M. & Maria Vittoria Tenci
P75	Diversity of epilithic diatoms in Alpine headwaters Tenci Maria Vittoria & Tolotti Monica
P76	Diatom Diversity in the Hypersaline Kuyalnyk Estuary (North-Western Black Sea Coast, Ukraine) Viktoriia Berezovska
	PARANINFO
17:00-18:30	Closing Ceremony
20:00	Gala Dinner. Real Casino de Murcia

July 10th



Time	Event	Venue
08:30- 15:00	Field Trips	Mar Menor
	Meeting Point Campus	Semiarid streams
	La Merced	



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