

# Detailed scientific programme SIBIC2024

Activities in Tortosa		Activities in Vic		
Monday 17th	Tuesday 18th	Wednesday 19th	Thursday 20th	Friday 21st
9:00	<b>Opening Welcome</b>	<b>Registration</b>	<b>Plenary Session</b> Ignacio Doadrio	<b>Plenary Session</b> Clara Amorim
9:15		<b>Opening Welcome</b>		
9:30	The Life MigratoEbre project: results obtained, and lessons learned. Marc Ordeix	<b>Plenary Session</b> Teresa Ferreira	BI13 MC07	EC01 SY01
9:45	Fishes of the lower Ebre river and delta. Nati Franch		BI14 MC08	EC02 SY02
10:00	<b>Coffee Break</b>	BI15 MC09	BI16 MC10	EC03 SY03
10:15	<b>Course: RFID for fish and wildfire tracking</b>	<b>Coffee Break</b> Posters FF, MF, BW	<b>Coffee Break</b> Posters EC	<b>Coffee Break</b> Posters MC
10:30		How science supports management actions on diadromous fish. Eric Roehard	BI17 TO01	EC05 SY05
10:45	Sturgeon species recovery in Western Europe: focus on A. sturio & A. oxyrinchus. Marie-Laure Acola	BI02 MF02 FF02	BI18 TO02	EC06 SY06
11:00	Shads (Alosa alosa & Alosa fallax) in the Atlantic: status and tendencies. Fernando Cobo	BI03 MF03 FF03	BI19 TO03	EC07 SY07
11:15	Our Twin Project: the fish migration river in the Netherlands. Jeroen van Herk	BI04 MF04 FF04	BI20 TO04	EC08 SY08
11:30	<b>Course: Building a PIT tag monitoring station</b>	BI05 MF05 FF05	BI21 TO05	EC09 SY09
11:45		BI06 MF06 FF06	BI22 TO06	EC10 SY10
12:00	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
12:15	<b>Departure to the visit of Xerta Weir fish ramp</b>	<b>Plenary Session</b> Emili Garcia-Berthou	<b>Plenary Session</b> Raphaël Lagarde	<b>Plenary Session</b> Laia Ribas
12:30		Norma Pujol & Marc Ordeix	BI07 MC01	BW01 TO07
12:45	<b>Course: PIT tag antennas</b>	BI08 MC02	BW02 TO08	MF08 MI02
13:00		<b>Visit of the European sturgeons at the IRTA's Aquaculture center of Sant Carles de la Ràpita</b> Enric Gisbert	BI09 MC03	BW03 TO09
13:15	<b>Interactive Workshop</b>	BI10 MC04	BW04 TO10	MF10 MI04
13:30		BI11 MC05	BW05 TO11	MF11 MI05
13:45	<b>Departure to Vic</b>	BI12 MC06	BW06 TO12	MF12 MI06
13:55		<b>Coffee Break</b> Posters BI	<b>Pitch &amp; Coffee</b>	<b>Coffee Break</b> Posters MI, SY, TO
14:00	<b>Departure to the visit of Xerta Weir fish ramp</b>	<b>Courses &amp; Project Networking</b>	<b>SIBIC Assembly</b>	<b>Closing ceremony</b>
14:15				
14:30	<b>Course: PIT tag antennas</b>	<b>Cultural activity</b>	<b>Bus to Manlleu</b>	
14:45			<b>Dinner SIBIC2024</b>	
15:00	<b>"Icebreaker" in Tortosa</b>	<b>"Icebreaker" in Vic</b>	<b>Bus to Vic</b>	
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Code	Session
FF	Fishes for future and global change
MF	Marine fisheries
BW	Fish behaviour and welfare
BI	Biological invasions and invasive species
EC	Ecology, life cycles and trophic structure
MC	Management and conservation of species and habitats
MI	Migration and connectivity
SY	Systematics, phylogeography, evolution
TO	Innovative tools and methodologies in fish research

Posters will always be on display. But each Coffee Break will be focussed on specific session (when authors are invited to stand in front of their poster).



**SIBIC 2024**  
X Iberian Congress  
of Ichthyology

## Detailed scientific programme: oral communications

Code	Name of the first author	Title
FF01	Ana Filipa Filipe	Revealing ecological niches of Luciobarbus species in the western Iberian Peninsula and prospects for future translocation
FF02	Quim Pou-Rovira	The challenge of conserving the fish fauna in the current scenario of decreasing flows: the case of Daró River (Girona, Catalonia)
FF03	Francisco Martínez-Capel	Evaluación del hábitat de peces nativos en un tramo del río Júcar bajo escenarios de cambio climático
FF04	Graciela Nicola	New insights in Atlantic salmon conservation: genetic diversity and structure in northern Spain before the climate change
FF05	Mar Vila Belmonte	Lipid content and fatty acid profile of round sardinella ( <i>Sardinella aurita</i> ): sustainable alternative in a warming NW Mediterranean
FF06	Maria Inês Silva	Unlocking potential: Leveraging no-value bycatch species into new opportunities
MF01	Maïte Erauskin-Extramiana	Understanding blue Sharks in the Bay of Biscay
MF02	Leire Lopetegui-Eguren	Exploring potential dynamic time-area closures to reduce silky shark bycatch in the European tropical tuna purse seine fishery operating in the Eastern Atlantic Ocean
MF03	Maria Inês Silva	Turning the Tables: Can boarfish become the next sustainable fishery for the Portuguese coast?
MF04	Marc Balcells	Monitoring the effectiveness of a permanent fishing closure area in the Roses Gulf (NW Mediterranean): the case of <i>Mullus</i> spp. as a fisheries management strategy
MF05	Marta Blanco Sánchez	Spatio-temporal variation of discard-size ratios of commercial species in NW Mediterranean trawl fisheries: implications for management
MF06	Pedro Guerreiro	Welfare in commercial marine fisheries - Insights from the CAREFISH/catch project
MF07	Ferran Bustos Salvador	ICATMAR: fisheries continuous and long-term monitoring along the Catalan coasts
MF08	Manuel José Pereira Rodrigues	Influence of ecological and taxonomical traits on the mineral content of commercial marine species
MF09	Filipe Costa	Mercury bioaccessibility in fish and seafood: effect of method, cooking and trophic level on consumption risk assessment
MF10	Amanda Miras	Analysis and comparison of fatty acids in the retina of Atlantic Bluefin Tuna ( <i>Thunnus thynnus</i> )
MF11	Oriol Ribalta	Pilot study on data collection for reporting marine recreational fishing
MF12	Sofia Graça Aranha	Evaluation of deep-sea elasmobranch bycatch in a European crustacean bottom trawl
BW01	Elena Fernández-Corredor	Environmental and human drivers shape the trophic ecology of a widespread marine predator
BW02	Iara Sotelo Mayor	Distribution and abundance of elasmobranchs in the archipelago of Fernando de Noronha, Brazil
BW03	Renan Leite	Effect of attraction angle on flow-refuge use effectiveness by a potamodromous species, the Iberian barbel ( <i>L. bocagei</i> ) under simulated pulsed-flow
BW04	Fátima Amat-Trigo	Uncovering the extent of phenotypic variability in the behaviour of an aggregative riverine fish
BW05	Rita Costa	Welfare assessment in purse seine fisheries off the southern Portuguese coast
BW06	Samira Nuñez Velazquez	Hooking effects on immediate and post-release welfare and subsequent mortality of an important marine recreational fishing target species in Portugal – the common two
BI01	Francisco J. Oliva-Paterna	Communication and Awareness of Aquatic Invasive Alien Species in the Iberian Peninsula by LIFE INVASAQUA: Outcomes & Lessons Learned
BI02	Marc Ventura	The introduction history of trout in high mountain lakes of the French Pyrenees: What about conservation?
BI03	Ilaria de Meo	Fish community size spectrum analysis in different types of lentic ecosystems
BI04	Jesús Ríos Vila	Management of invasive alien fish in Girona ponds: strategies, methods, and results
BI05	Marta Blanes García	Trends and evolution of the invasive fish species in different bodies of water (rivers, wetlands and dams) of the Comunitat Valenciana
BI06	José María Santos	Assessment of selective fish passage across a steep low-head ramp: a mesocosm approach
BI07	Ana Filipa Filipe	Redrawing the biogeography of Iberian freshwater fishes in the Anthropocene
BI08	Lucía Galvez-Bravo	Biodiversity loss by hybridization of invasive species with endemic freshwater fishes
BI09	Michael Butler Margalef	Navigating the Brine: Physiological Responses under Different Salinities Reveal Insights into the Interaction between a Native and Invasive Freshwater Fish
BI10	João Gago	Are Portuguese inland professional fisheries fond of European catfish?
BI11	Lourdes Encina	Detection of European catfish ( <i>Silurus glanis</i> ) using hydroacoustics in the lower Guadalquivir
BI12	Rui Rivaes	New approaches for capturing the invasive European catfish and its applicability on population control
BI13	Jong-Mo Suh	A genetic perspective on the invasion history of the European minnow ( <i>Phoxinus spp.</i> ) in the Pyrenees and the Italian Alps
BI14	Ruth Coya Testón	On the eDNA-mapping of the monster European catfish threatening Doñana: The STOPSILURO Project
BI15	Mafalda Moncada	Is it time to replace traditional analysis with metabarcoding methods in diet studies? A case study assessing European catfish predation on native communities
BI16	Tessa Lynn Nester	eDNA techniques unveil the dietary and distribution patterns of the invasive Eastern mosquitofish in Spain: Insights for Endangered toothcarp conservation
BI17	Diogo Dias	Beyond nets and scales: using social media data mining and eDNA to update European perch ( <i>Perca fluviatilis</i> ) invasion in Portuguese freshwater
BI18	Janine Pereira da Silva	Reeling in the Clicks: online interest in Iberian freshwater fish
BI19	Rachid Bouhadad	Climatic changes and invasive species: two potential factors of genetic erosion of inland fish fauna in Algeria
BI20	Ana Clara Sampaio Franco	Availability of shoreline habitats is more important for native than for non-native fish species in Neotropical reservoir
BI21	Aymar Orlandi Neto	Assessing fish assemblage β-Diversity shifts following an intra-country introduction in Southeast Brazilian Reservoir
BI22	Ana Clara Sampaio Franco	Unraveling Invasion Dynamics: Assessing the Role of Adaptation and Naturalization in the Success of <i>Cichla ocellaris</i> Beyond the Amazon
EC01	Antonio Zamora López	Assessing temporal changes in the structure and composition of fish assemblages of the Mar Menor in response to critical eutrophic-mediated event
EC02	Adrián Guerrero-Gómez	Syngnathids of Mar Menor shallow areas (Western Mediterranean Sea): habitat relationships at two spatial scales and their role as a surrogate family
EC03	Filipe Parreira	Feeding success of the declining long-snouted seahorse ( <i>Hippocampus guttulatus</i> ) under habitat loss
EC04	Jaime Penadés-Suay	Presence of blackchin guitarfish ( <i>Glaucoctegus cemiculus</i> ) in waters of Doñana National Park (Spain, North East Atlantic)
EC05	Sara Lourenço	Short and long-term temperature variations drive recruitment variability in marine and estuarine juvenile fishes
EC06	Guillem Ilenas	Criteria for the delimitation of brown trout waters based on temperature regimes to improve fishing regulations and management
EC07	Chami Ayoub	An updated check-list of the ichthyofauna of the inland waters of Morocco
EC08	José María Santos	Fish microhabitat use upstream and downstream from small hydropower plants
EC09	Ignasi Arranz	Trophic ecology of fish species in Iberian lakes: preliminary results from a long-term sampling campaign in aquatic food web
EC10	Javier Lobon-Cervia	Ants (Formicidae), a major link between the riparian forest and the trophic dynamics of fish in Amazonian Terra firme stream
MC01	Josu Elso	Bidasoa salmon: a ray of hope for the recovery of the species
MC02	Nati Franch	Long-term monitoring programs for understanding the dynamics of fish populations in Ebro Delta
MC03	José Enrique Larios López	Fish Multimetric Index (FMI): Examining the relationship between hydromorphology and ichthyological fauna
MC04	Iago Pérez Novo	Projecte Escanyagats: Creation and evolution of new ex-situ populations of Three-spined stickleback ( <i>Gasterosteus aculeatus</i> ) in artificial water bodies as a long-term conservation
MC05	Neus Mairal	Diagnosis of fish populations and their habitats in Riera d'Osor stream
MC06	Quim Pou-Rovira	Diagnosis of the present situation of the Spanish toothcarp ( <i>Aphanius iberus</i> ) in the Llobregat Delta
MC07	Andrea Pino Del Carpio	Completeness of the "Carta Piscícola Española" data, the Spanish database of freshwater fish occurrence
MC08	Ignacio Pons	The most irreplaceable freshwater places for fish conservation in relation to protected areas of Spain
MC09	Maïte Telletxea	What would efficient data management mean for Spanish freshwater fish conservation?
MC10	Janine Pereira da Silva	The role of connectivity in conservation planning for species with obligatory interactions: Prospects for future climate scenario
MI01	Bernat Hereu	Understanding marine fish connectivity and habitat use to implement ecosystem-based management
MI02	Marc Ordeix	Restoration of fish migration and beginning of an European sturgeon recovery project in the lower Ebro river (Catalonia) and beyond
MI03	Lide de Izeta	Categorization of the capacity of dispersal of Spanish native freshwater fish for the ConnectFish project
MI04	Javier Sanz Ronda	Gauging stations and fish passage: a finally happy forced marriage
MI05	Francisco Javier Bravo-Córdoba	Exploring the impacts of diversion canals on Iberian fish: preliminary insight
MI06	Rita Almeida	Freshwater incursions of European sea bass in the Tagus river: an overlooked issue in European rivers?
SY01	Terry J. Donaldson	New and recent records of fishes from the Mariana Islands
SY02	David Barros García	Tell me how you smell and I'll tell you who you are. Studying odour mate recognition systems in deep-sea fish ( <i>Notacanthus</i> sp.)
SY03	Thomas Verré	Shady shad distribution in Europe uncovered by mitochondrial genome analysis
SY04	Alfonso López-Solano	Patterns of gene expression of an euryhaline fish species, <i>Aphanius iberus</i> (Valenciennes, 1846) living at different salinity levels
SY05	Carmen Duque Amado	Environmental DNA as an effective tool for the study and conservation of the Sarda ( <i>Achondrostoma salmantinum</i> Doadrio & Elvira, 2007) (Actinopterygii, Leuciscidae)
SY06	Ana Almodóvar	Unexpected high genetic differentiation at a microgeographical scale in the endangered Southern Iberian spined loach
SY07	Sofia Nogueira	Tailoring eDNA methodologies for enhanced species detection: a case study on the endangered <i>Anaecypris hispanica</i>
SY08	Núria Pérez-Bielsa	Genetic characterization of the chub ( <i>Squalius sp.</i> ) populations in Catalan basin
SY09	Silvia Perea	Phylogeography of the West North African species of the tetraploid fish genus <i>Luciobarbus</i> Heckel, 1843 (Actinopterygii, Cyprinidae)
SY10	Adrián Casanova	Genomic diversity of brown trout populations along a small Mediterranean river
TO01	Samuel Fernandes	Development of an autonomous multi-parameter framework for water quality and quantity monitoring in real-time based on embedded system
TO02	Eneko Aspillaga	Assessing MPA connectivity: insights from acoustic telemetry studies on vulnerable species in the Balearic Islands
TO03	Antoni Lombarte	The website AFORO. Developments of a computational environment for otolith databases
TO04	Iraide Artetxe-Arrate	Otolith-temperature estimates in Atlantic bluefin tuna ( <i>Thunnus thynnus</i> ) from the Mediterranean Sea: Insights from clumped isotope measurement
TO05	Pablo García-Salinas	Use of CT scan in stranded blue sharks ( <i>Prionace glauca</i> ) reveals necropsy-overlooked impalement injuries caused by swordfish ( <i>Xiphias gladius</i> )
TO06	Jose Carlos Campos Sánchez	Phagocytosis is not only a matter of leucocytes: phagocytosis of erythrocytes in seabream ( <i>Sparus aurata</i> )
TO07	Estibaliz Diaz	Tailored for eels, valuable for all: SUDOANG's Atlas and Database
TO08	Guillem Saguer	Pilot experiences of intensive control of exotic aquatic fauna in the upwellings of the Ullals de Baltasar (Ebro Delta NP)
TO10	Paloma Moreno-Rendón	Barbel conservation aquaculture and stocking
TO09	João Soares Carrola	Assessment of the enantiotoxic effects of amphetamine (AMP) and 3,4-methylenedioxyamphetamine (MDPV) on zebrafish ( <i>Danio rerio</i> ) embryo
TO11	Amy Brookman	Fathom Software: Simplifying Data Management
TO12	Amy Brookman	NexTrak: The Future of Acoustic Telemetry

## Detailed scientific programme: posters

Code	Name of the first author	Title
FFP01	Èlia Bretxa Cunill	Fishes, fish migration and education
FFP02	João Carrola	Estuarine fishes stressed by a fast-changing climate
FFP03	Judith Ollé Vilanova	There are plenty more fishes in the sea: Tempting alternatives to replace sardine consumption
FFP04	Quim Pou-Rovira	La Sorellona: 10 years of education, awareness, dissemination and environmental volunteering with feet soaking in the r
FFP05	Pedro M Guerreiro	Impacts of simulated heatwaves and recovery over O2-consumption and metabolic parameters of <i>Notothenia rossii</i> juve
FFP06	Pedro M Guerreiro	Will photoperiod and temperature asynchrony affect the physiology of the Antarctic spiny plunderfish <i>Harpagifer antrac</i>
MFP01	Ana Magny	Gamete cryopreservation in elasmobranchs using biodegradable capsules.
MFP02	Christoph Schäfer	The population structure of the axillary seabream ( <i>Pagellus acarne</i> ) in the Portuguese Atlantic coast inferred from body
BWP01	Ignasi Sanahuja	Evaluation of illegal transport effects on confiscated glass eel ( <i>Anguilla anguilla</i> )
BWP02	Victor Gallego	Can fish talk to each other? First attempts assessing sounds from Mediterranean freshwater fish, and invasive fish specie
BWP03	Jose Carlos Campos Sánchez	Effects of acetic acid administration in the lips of gilthead seabream ( <i>Sparus aurata</i> ): Establishing a pain model for teleos
BIP01	Quim Pou-Rovira	Karst Pallars, conservation of karstic lakes in the Catalan Pre-Pyrenees. First results of the intensive population control o
BIP02	Luísa Sousa	First data on imported freshwater fish used on ornamental trade in Portugal
BIP03	Francisco J. Oliva-Paterna	LIFE INVASAQUA: Policy Brief and Strategic Information for the Management of IAS in Aquatic Systems
BIP04	Omar Sánchez	Challenges and opportunities in aquatic ecosystem management: on the role of otoliths as a key tool for understanding
BIP05	Quim Pou-Rovira	Intensive control of exotic fish in a stretch of high interest for the native ichthyofauna of the Daró River (Girona)
BIP06	Omar Sánchez	On the occurrence of <i>Carassius auratus</i> X <i>Cyprinus carpio</i> hybrids in the central Asturias (N Iberian Peninsula).
BIP07	Aymar Orlandi Neto	Temporal variations of the multifaceted biodiversity and assembly mechanisms in lake fish assemblages
BIP08	Carlos Fernández-Delgado	First data on the biology of a wells catfish ( <i>Silurus glanis</i> ) population located in the south of the Iberian Peninsula
BIP09	Angela Lambea-Camblor	Detection, delimitation and identification of invasive alien freshwater fish species by environmental DNA (eDNA) detecti
BIP10	Javier Oscoz	Iberian Aquatic Invasive Alien Species database: Current status of a critical tool to fight against IAS
BIP11	Pedro M Guerreiro	What we know about the invasive cichlid chanchito, <i>Austroloheros facetus</i> , in the Iberian Peninsula
BIP12	Irene Gil-Luna	A mesocosm experiment on the competitive interactions between an endangered toothcarp and invasive mosquitofish (
ECP01	Mafalda Moncada	Predatory pressure of <i>Silurus glanis</i> on native fauna in the Tagus River basin
ECP02	Milene Alexandra Guerreiro	Fish larvae biodiversity of the Azores Islands – a morphological and molecular analysis
ECP03	Natália Luiza da Silva	Is the population of <i>Myloplus tiete</i> , a native and threatened species, made up of specialist individuals?
ECP04	Raiana Lima de Almeida	Estuarine use rather than trophic functional guilds are better predictors of the processes underlying fish community stru
ECP05	Rafel Rocaspana	High spatial variability in the density of cavilat ( <i>Cottus hispaniolensis</i> ) in the Garonne River
ECP06	Rosa Gurí Florensa	Determining the role of mesohabitats and seasonality on the native species <i>Barbus meridionalis</i> fish population size stru
ECP07	Alba Lago	No water, no problem! Adaptive plasticity of non-annual killifish ( <i>Cyprinodon variegatus</i> ) embryos to drying out conditio
ECP08	Antonio Zamora López	Comparing benthic fish assemblages in shallow and deep waters of the Mar Menor coastal lagoon.
ECP09	Carlos Orduna	Variation in the fish association of the Zahara-El Gastor reservoir 20 years after its construction.
ECP10	Pablo Caballero	Clinal geographical variations of life-history traits in Galician Sea Trout ( <i>Salmo trutta</i> Linné, 1758) populations
MCP01	Seila López Quintales	Watershed Management Model for fish restoration
MCP02	Ismael Bentieb Mestre	Strategic ponds for biodiversity: a new approach to the conservation of fishes species and habitats in times of climate cr
MCP03	Laia Jiménez Saldaña	Fish population evolution in the Riera Major stream (Ter River Basin, NE Catalonia).
MCP04	Marta Blanes García	The recovery of freshwater blenny ( <i>Salaria fluviatillis</i> ) population in the Albufera lagoon (Valencia).
MCP05	Omar Sánchez	Ichthyological environmental indicators in the renaturation of urban rivers: the case of the Piles and Peñafrañca rivers
MCP06	Maria Pizarro-Borrull	Genetic diversity and divergence in the endangered <i>Anaocypris hispanica</i> (Steindachner 1866): implications for its conse
MCP07	Quim Pou-Rovira	Conservation of Samaruc ( <i>Valencia hispanica</i> ) and recovery of the ecological state in the Santes Creus lagoons (Ametlla d
MCP08	Quim Pou-Rovira	Viability of the South Iberian Spined Loach ( <i>Cobitis paludica</i> ) in the upwellings of the Ullals de Baltasar (Ebro Delta NP)
MCP09	Cesar Esteban Simon-Talero	Traditional fishing reservoirs
MCP10	Iago Perez-Novo	GiroNat Project: planned river restoration actions
MCP11	Adela Belackova	Understanding the Vulnerability and Conservation of Spawning Aggregations: A Study on Demersal Sparids in South-We
MCP12	Diana Gonçalves	The Effect of Wastewater Treatment Plant Effluents on Olfaction in the Lusitanian Toadfish
MCP13	Enric Aparicio	Temporal trends of the Mediterranean brown trout ( <i>Salmo trutta</i> ) in Catalonia: influence of environmental factors and e
MCP14	Adrián Guerrero-Gómez	Population dynamics of the Iberian Toothcarp ( <i>Apricaphanius iberus</i> ) in two different environments: effects of human m
MCP15	Gustavo González	Recovery of native fish populations after a forest fire in a temporary river.
MCP16	Núria Sellarès	Fish population evolution during a restoration project. A case of study in the Ter River (Osona region, NE Catalonia).
MCP17	Victor Gallego	Monitoring the fish communities in a small intermittent river towards conservation and restauration: the case of Ribeira
MIP01	Ricard Camps Shelly	Follow-up by ultrasonic telemetry of the pilot release of 44 juvenile European sturgeon ( <i>Acipenser sturio</i> ) in the final str
MIP02	Quim Pou-Rovira	Situation of river connectivity for fish in the rivers of Girona
MIP03	Rafael Schroeder	Do Mugil liza leave the nursery grounds ahead the schedule?
MIP04	Peter C. Zélia Velez	Environmental salinity modulates olfactory sensitivity in the euryhaline European seabass, <i>Dicentrarchus labrax</i>
SYPO1	Marta Martínez	Preliminary findings of small-scale genetic differentiation and diversity of Mediterranean brown trout from the Ebro River
SYPO2	Massiel Alfonso González	Genomic and ecological differentiation of a highly threatened elasmobranch: the Pacific Angel Shark, <i>Squatina californic</i>
SYPO3	Nuria Sanz	Causes of population structure in brown trout in Pedroso River (Duero basin, Spain)
SYPO4	Jose Carlos Campos Sánchez	In silico prediction and genetic profiling of somatostatins in gilthead seabream ( <i>Sparus aurata</i> )
TOP01	Laia Nogué	Detection of silent invasions using genetic diagnostic tools: new distribution data of invasive cryptic species of freshwat
TOP02	Marta Pujol-Baucells	Ongoing data collection of marine recreational fisheries in Catalan coastal waters (NW Mediterranean Sea)
TOP03	Oriol Ribalta	Shark sightings and appearances on the Catalan coast (NW Mediterranean Sea) who as appears in the media from 1992
TOP04	Taynara Pontes Franco	Morphometry and microchemistry of otoliths as a tool for differentiating between estuarine systems and two species of
TOP05	Iago Pérez Novo	Design and installation of a gravel filter to prevent the penetration of fish and other exotic fauna in a Red Natura 2000 p
TOP06	Jose Carlos Campos Sánchez	Deciphering the serum proteinogram profile of gilthead seabream ( <i>Sparus aurata</i> )
TOP07	Filipe Ribeiro	Assessing the current distribution of the invasive European catfish in Portugal: from people to molecules
TOP08	Sara Atienza	Evaluation of environmental DNA as a tool for early detection of invasive species in Catalonia