Changes to published programme

Tue 27 Aug 16.10 – the presenting author will be Feis rather than Parrondo as indicated.

Tue 27 Aug 15.00 - Guinda, Ramos, de la Hoz, Puente, Juanes ‘Recent changes in subdal macroalgae distribuon in N Spain (Gulf of Biscay)’ will replace Lee et al, which will be presented at 12.40 on Weds 28 Aug.

Wed 28 Aug 11.50. Talk by David Clare cancelled. All subsequent talks listed for that session will take place 10 minutes earlier than advertised

Wed 28 Aug 14.20. Meysick et al. – no title given in the programme. The title is ‘Interactions between eelgrass (Zostera marina) and the Balc clam (Macoma balthica)’

Wed at 12.40. Hannah Lee will present Blue mussel (M. edulis): Carbon stores to be prioritised in Marine Protected Areas? This talk was previously scheduled for Thur at 12.20. Instead, the closing remarks will commence at that time.

Wed 15.30. Additional talk: Campanyà-Llovet, Snelgrove, de Leo. Food quantity and quality in Barkley Canyon (NE Pacific) and its influence on macroinfaunal community structure. The afternoon break and subsequent presentations will take place 10 minutes later than currently scheduled.

Thurs 29 Aug at 12.00. Rubal, Torres, Veiga. ‘Urbanisation reduces the diversity of intertidal canopies of Sargassaceae along north Portuguese coast’ will replace Kleitou et al, which will be presented at 13.50 on Wed 28 Aug.

Thurs 29 Aug at 12.10. There will be no presentation by D’Agostino et al. This talk will be presented at 14.00 on Wed 28 Aug.

Thurs 29 Aug. Veiga et al will be presented at 12.10 instead of 12.20.

Thurs 29 Aug. Lee et al will be presented at 12.20 instead of 12.30.

EMBS54 would like to acknowledge and thank our symposium sponsors for their generous support.

SPONSORS

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SCHEDULE

All sessions are held in the Moore Auditorium, UCD Science Centre East, University College Dublin, unless otherwise stated.

All talks presented by first author unless indicated in bold.

**Session key code**

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**SUNDAY 25 AUGUST**

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<td>11.20</td>
<td>Górska, Wlodarska-Kowalczuk</td>
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<td>Vascotto, France, Mozetić</td>
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<td>Capdevila, Beger, Stott, Barks, Rowlands, Salguero-Gómez</td>
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<td>11.50</td>
<td>Bonzi, Monroe, Berumen, Schunter, Ravasi</td>
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<td>12.00</td>
<td>Buyse, De Backer, Hostens</td>
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<td>White, O’Connor, Emmerson, Donohue</td>
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<td>Farina, Chindris, Leggieri, Scolamacchia, Guala, Brundu, Loi, Asnaghi</td>
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<td>Ferrario, Ulman, Facchinetti, Occhipinti-Ambrogio, Marchini</td>
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<td>Ferreira, Sá, Brito, Brotas, Costa, Guerreiro, Mendes</td>
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<td>13.40</td>
<td>Kotta, Fettisov, Liversage, Orav-Kotta</td>
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<td>Murase, Irie, Iguchi</td>
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<td>14.00</td>
<td>Navarro, Thomsen, Rocha, Villanueva, Torres</td>
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<td>14.10</td>
<td>Pack, Rius, Mieszkowska</td>
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<td>14.20</td>
<td>Pyko, Löder, Schulbert, Wisshak, Laforsch, Munnecke, Teichert</td>
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<td>Reddin, Nätischer, Kocsis, Pörtner, Kiessling</td>
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<td>14.40</td>
<td>Talijančić, Šegvić Bubić, Žužul, Grubišić</td>
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<td>Turicchia, Cerrano, Garrabou, Linares, Abbiati, Ponti</td>
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<td>15.00</td>
<td>Van Colen, Ong, Briffa, Wethey, Abatith, Moens, Woodin</td>
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<td>Détrée, Gonzalez, Navarro</td>
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<td><strong>AFTERNON BREAK</strong></td>
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<td>16.00</td>
<td>Mangan, Pilditch, Bryan, Thrush, Lohrer</td>
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<td>Pilditch, Lohrer, Hewitt, Savage, Gladstone-Gallagher, O’Meara, Hillmen, Thrush</td>
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<td>16.20</td>
<td>Hadjioannou, Jimenez, Hartingerova, Andreou, Petrou, Hayes</td>
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<td>Zalota, Spiridonov, Galkin, Vedenin, Udalov, Pronin</td>
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<td>Wiltshire, Scharfe</td>
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<td>O’Reilly Hall, University College Dublin</td>
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<td><strong>ASSOCIATED WORKSHOP:</strong> How could we reduce the environmental footprint of manganese nodule mining through improved equipment design?</td>
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<td>Hosted by Seascape Consultants as part of the Blue Harvesting project.</td>
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<td>09.00</td>
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<tr>
<td>09.50</td>
<td>Leclerc, Viard, Diaz, Brante</td>
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<td>10.00</td>
<td>Basset, Marrocco, Ciotti, Cozzoli, Gjoni, Rosati, Shokri</td>
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<td>10.10</td>
<td>Coleman, Williams, Hawkins, Fraser</td>
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<td><strong>MORNING BREAK</strong></td>
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<tr>
<td>11.00</td>
<td>Doogan, Cotter, Bond, Ó Maoiléidigh, Brophy</td>
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<td>Goossens, Reubens, Torreele, Moens</td>
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<td>11.20</td>
<td>Juanes, Ramos, Fernández, de la Hoz, Puente, Guinda</td>
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<td>Loher</td>
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<td>11.40</td>
<td>Mancinelli, Bardelli</td>
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<td>McGinty, Barton, Record, Finkel, Johns, Stock, Irwin</td>
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<td>McInturf, Steel, Buckhorn, Sandstrom, Slager, Fangue, Klimley, Caillaud</td>
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<td>Norrie, Dunphy, Roughan,Wepep, Lundquist</td>
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<td>Ponti, Tarullo, Mikac, Desiderato, Zanni, Airoldi, Abbiati</td>
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<td>Rodriguez-Perez, Sanderson, Friis Møller, James</td>
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<td>12.40</td>
<td>Roman-Torres, Klages, Eizaguirre</td>
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<td>12.50</td>
<td><strong>LUNCH</strong></td>
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<td>13.30</td>
<td><strong>POSTER SESSION</strong></td>
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<td>Sinopoli, Allegra, Andaloro, Maggio, Milisenda, Cillari</td>
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<tr>
<td>14.00</td>
<td>Strickler, Lopes, Garcia, Rusch, Luz, Dabiri, Kanso, Costello</td>
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</table>
14.10  Tray, Crowley, Brophy, Ó Maoiléidigh Investigating scale trace element microchemistry as a tool to track adult North Atlantic salmon populations.

14.20  Wichmann, Kullmann, Frankowski, Thiel Distribution & growth of stocked European glass eels released in the eastern German Baltic Sea

14.30  Jackson, Bolton Can changing distributions of benthic species be tracked using long-term datasets from volunteer divers?

14.40  McIlroy, Thompson, Landry Yuan, Bonebrake, Baker Subtropical thermal variation supports persistence of corals but limits productivity of coral reefs


15.00  Guinda, Ramos, de la Hoz, Puente, Juanes Recent changes in subtidal macroalgae distribution in N Spain (Gulf of Biscay)

15.10  Simpson, Morris, Harasti, Coleman Seahorse Hotels: use of artificial habitats to support recovery of the endangered White’s seahorse

15.20  Uttieri, Nihongi, Hinow, Motschman, Jiang, Alcaraz, Rudi Strickler Copepod manipulation of oil droplet size distribution

15.30  A F T E R N O O N  B R E A K

16.00  Paul Brooks Introduction to the Yellow Submarine

16.10  Parrondo, Feis, Ballenghien, Chiss, Nascimento Fernandes, Morán, Lejeusne, Yahya Cheikhna Lemrabbott, Thiebaut, Jollivet, Borrell Population connectivity of stalked barnacles Pollicipes pollicipes

16.20  Nunes, Beesley, Dashfield, McNeill, Mesher, Pascoe, Queirós, Somerfield, Talbot, Widdicombe Strong inter-annual and seasonal patterns revealed by a 10 year time-series of benthic community data at Station L4, a Western Channel Observatorv site

16.30  Nekhaev, Merkuliev Museum collections as a chronicle for long-term monitoring: a case of benthic gastropods from the Kola Meridian transect (Barents Sea)

16.40  Noble-James, Judd, Diesing, Clare, Eggett, Silburn, Duncan Developing monitoring approaches for Marine Protected Areas: insights from the Croker Carbonate Slabs Special Area of Conservation.

17.20  Y E L L O W  S U B M A R I N E
Old Merville Pitch or Sports Centre, depending on weather (see UCD map, back cover)
University College Dublin

19.30  C L O S E
## Plenary

### 09.00
- **Traits in space: enriching species occurrence data with species attributes for traits**
  - Dr Tom Webb, University of Sheffield, UK

### 09.50
- **Marine species traits in the LifeWatch Taxonomic Backbone**
  - Dekeyzer, Decock, Verfaille, Vanhoorne, Lanssens, Vandepitte

### 10.00
- **Aggregated trait data for global questions: coverage and fitness for use**
  - Hammock, Schulz

### 10.10
- **Maternal effects buffer biased sex ratios in species with temperature dependent sex determination – the case of the loggerhead turtle**
  - Lockley, Reischig, Eizaguirre

### 10.20
- **Securing the future of the Critically Endangered Angelshark (Squatina squatina) through multidisciplinary approaches to study this rare, cryptic elasmobranch**
  - Barker, Jiménez Alvarado, Meyers, Wray, Davies, Belén Caro, Sealey, Jacoby

### Morning Break

### 11.00
- **Investigation of juvenile Angelshark (Squatina squatina) habitat in the Canary Islands to inform protection of this Critically Endangered species**
  - Sealey, Barker, Jiménez Alvarado, Meyers, Belén Caro

### 11.10
- **Effects of sewage discharge on macrofaunal communities nearby the underwater sewage duct of Trieste (northern Adriatic Sea) on temporal scale**
  - Vesal, Nasi, Auriemma, Del Negro

### 11.20
- **Gametic isolation proteins in the model of intertidal snails sibling species.**
  - Lobov, Maltseva, Varfolomeeva, Mikhailova, Granovitch

### 11.30
- **Have we underestimated the effects of ocean acidification on different biological traits?**
  - Vargas, Cuevas, Aguayo, Lagos, Broitman

### 11.40
- **Functional patterns of macrofauna at the Arctic deep-sea observatory HAUSGARTEN**
  - Käss, Chikina, Vedenin, Soltwedel

### 11.50
- **Littorina snails and environmental stress: the first to measure the second.**
  - Maltseva, Varfolomeeva, Babkina, Kursheva, Morgunova, Renaud, Granovitch

### 12.00
- **Prevalence of pelagic dependence among coral reef predators across an atoll seascape.**
  - Skinner, Newman, Mill, Newton, Polunin

### 12.10
- **Combination of molecular and morphological characteristics to assess different origins**
  - Žužul, Šegvić-Bubić, Talijančić, Katavić, Grubišić

### 12.20
- **Feeding preferences of seven dominant fouling species: trophic specialists or generalists?**
  - Mavraki, Degraer, Vanaverbeke

### 12.30
- **Linking traits across ecological scales determines functional resilience to disturbance**
  - Gladstone-Gallagher, Pilditch, Stephenson, Thrush

### 12.40
- **Blue mussel (M. edulis): Carbon stores to be prioritised in Marine Protected Areas?**
  - Lee, Sanderson, Diele

### Lunch

### Poster Session

### 13.30
<table>
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<tr>
<td>13.50</td>
<td>Kleitou, Hall-Spencer, Kletou, Antoniou, Chartosia, Hadjioannou, Savva, Jimenez, Dimitrou, Petrou, Sfenthourakis, Christou, Andreou, Rees</td>
<td>Management of Invasive Species in Marine Protected Areas: The case of lionfish in eastern Mediterranean</td>
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<td>14.00</td>
<td>D’Agostino, Jimenez, Reader, Hadjioannou, Josephides, Feary</td>
<td>Behavioural traits, feeding ecology and native prey naiveté, will Mediterranean lionfish invaders be as successful as their western Atlantic counterpart?</td>
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<td>14.10</td>
<td>Henseler, Nordström, Törnroos, Snickars, Bonsdorff</td>
<td>How predation risk and competition influence habitat use of perch (Perca fluviatilis)</td>
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<td>14.20</td>
<td>Meysick, Norkko, Gräfnings, Gagnon, Boström</td>
<td>Interactions between eelgrass (Zostera marina) and the Baltic clam (Macoma balthica)</td>
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<td>14.30</td>
<td>Ahn, Kume, Terashima, Ye, Kameyama, Yamashita, Miya, Kasai</td>
<td>Evaluation of biodiversity at 5 estuaries in Japan using environmental DNA metabarcoding method</td>
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<td>Nour, Pansch, Stumpp</td>
<td>Larval performance of a potent invader in a steep salinity gradient within the Western Baltic Sea</td>
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<td>Wilson</td>
<td>Ecosystem function and diversity: the Dublin Bay intertidal model</td>
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<td>15.00</td>
<td>Prestes, Moreu, Cacabelos, Martins, Faria, Neto</td>
<td>Long-term changes in the structure of macroalgal communities in the Azores</td>
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<td>15.10</td>
<td>Matveev, McGaw</td>
<td>Effect of time in the lab and diet on the physiology and behaviour of a ubiquitous Atlantic crab (Cancer irroratus)</td>
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<td>15.20</td>
<td>McMullin, Wing, Hageman</td>
<td>Tracking waste from aquaculture into infauna communities in the Marlborough Sounds; combining community and biochemical data in a quantitative analysis</td>
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<td>15.30</td>
<td>Campanya-Llovet, Snelgrove, de Leo</td>
<td>Food quantity and quality in Barkley Canyon (NE Pacific) and its influence on macroinfaunal community structures</td>
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<td>16.20</td>
<td>P L E N A R Y</td>
<td>Atlantic Salmon lost at sea</td>
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<td>Prof. Ken Whelan, University College Dublin/Atlantic Salmon Trust</td>
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<td>Chair: Jens Carlsson</td>
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<td>19.30</td>
<td>C O N F E R E N C E D I N N E R + C É I L Í</td>
<td>Dining Hall &amp; Atrium, Trinity College Dublin (see map, p.21)</td>
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<td>PLENARY</td>
<td>It’s the ecology, stupid – willingness to pay to protect cold-water coral</td>
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<td>A Bayesian network model for assessing ecological risk and economic</td>
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<td>impacts for spatial marine management options</td>
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<td>Quantification of ecosystem services provided by infaunal shellfish in</td>
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<td>Implementing remote sensing as a tool towards supporting marine</td>
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<td>Ecosystem valuation of coastal ecosystems for improving water quality</td>
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<td>underpins blue growth</td>
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<td>Ecological footprint and ecosystem services from seaweed cultivation:</td>
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<td>a methodological approach to ensure best practice</td>
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<td>Biodiversity in the deep-sea mining frontier based on a new integrative</td>
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<td>Chemodiversity and health benefits of our native Macroalgae</td>
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<td>Estimation of phytoplankton group composition using HPLC pigment</td>
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<td>Urbanisation reduces the diversity of intertidal canopies of</td>
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<tr>
<td>12.20</td>
<td>CLOSING</td>
<td>Prof. Tasman Crowe, EMBS President</td>
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<tr>
<td>12.30</td>
<td>LUNCH</td>
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<td>14.00</td>
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**POSTERS**

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<tr>
<td>Microplastics in aquatic systems – genuine threat or over exaggeration?</td>
<td>Cunningham, Sigwart</td>
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<td>High occurrence of non-indigenous species travelling in the Mediterranean Sea by recreational boats</td>
<td>Ferrario, Ulman, Occhipinti-Ambrogi, Bandi, Bogi, Martinez-Lai, Merlo, Princish, Scriban, Marchini Zalota, Kolyuchkina, Chikina, Syomin, Basin, Lyubimov</td>
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<td>Long-term changes of the northeastern Black Sea coastal macrozoobenthos in the XXI century</td>
<td>López, Lastra, Troncoso, Sampedro, Garcia-Gallego</td>
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<td>Warming effects on biogeochemical cycling of algal wrack subsidies in Antarctic shores</td>
<td>White, Herbert, Watson</td>
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<td>Heat waves as a driver of change in mudflat macroinvertebrate communities</td>
<td>Allegra, Bosch-Belmar, Castriota, Cillari, Falautano, Maggio, Milisenda, Persia, Sinopoli</td>
<td>A method for assessing the distribution of the alien jellyfish Cassiopea andromeda (Forsskal, 1775) in areas of difficult access.</td>
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<td>Mechanisms underlying predator-driven biotic resistance against introduced barnacles on the Pacific coast of Hokkaido, Japan</td>
<td>Eirlich, Yorise, Momota</td>
<td>Comparison of behavioural and physiological traits in a native (Cancer irroratus) vs. invasive (Carcinus maenas) crab</td>
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