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## **The role of female cephalopod researchers: past and present**

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## **Abstract**

This paper explores the contribution that women past and present have made to cephalopod research. It includes short biographies of eight female cephalopod researchers who are now deceased: Jeanne Villepreux-Power, Anne Massy, Grace Watkinson, Grace Pickford, Anna Bidder, Zulma Castellanos, Katharina Mangold and Martina Roeleveld. In addition, biographies are provided for six female cephalopod researchers who are now retired but who have made an enormous contribution to cephalopod knowledge during their lifetimes: Nancy Voss, Marion Nixon, Joyce Wells, Julia Filippova, Eve Boucaud-Camou, and Renata Boucher-Rodoni. Online supplementary information provides a bibliography of the research outputs of these 14 researchers, who between them, since 1837 have published more than 800 scientific papers making an in-depth contribution to the field of cephalopod research.

## Introduction

There is increasing debate about the paucity of women in STEM (science, technology, engineering and mathematics) and a view that science remains institutionally sexist, with evidence for bias against women well documented (e.g., Steinpreis 1999; Miller and Chamberlin 2000; Trix and Psenka 2003; Schmader et al. 2007 cited in Schroeder et al. 2013; Ceci & Williams 2011; Adamo 2013; Larivière et al. 2013). Nonetheless, the reasons for reduced numbers of women in the higher echelons of academia are complex and it is not our intention to address them here. Instead, we wish to highlight the careers and achievements of female cephalopod researchers who have succeeded in the past, despite adversity, and hence provide role models for active female researchers today. It has been suggested (see for example discussion in Schroeder et al. 2013) that women often have lower visibility in science, that there may be gender disparity in invitations to give keynotes at conferences, and that females disproportionately decline invitations to speak. Mindful of some of these issues, two of us (JEM and EAGV) invited a female cephalopod biologist (ALA) to make a keynote presentation at the Cephalopod International Advisory Council (CIAC) Symposium in Florianópolis, Brazil in 2012 celebrating the achievements of past and present female cephalopod researchers.

A bibliometric analysis of the papers presented during this Symposium suggests that, despite having a female chair and an Organizing Committee clear-minded about women-in-science issues, the CIAC 2012 Symposium reflected the general bias against women documented elsewhere. Although registered delegates showed a balanced gender distribution (i.e., 57% and 43% of the researchers who attended the Symposium were male and female delegates, respectively; Figure 1A), the analysis of the presentations suggests otherwise. For example, among the posters presented during the event (133), 97% were authored by at least one male researcher, 3% of them being authored exclusively by female researchers, while 71% of the posters were authored by at least one female author, 29% being authored exclusively by male researchers (Figure 1D). The picture is similar when we look at oral presentations: among the oral papers delivered during the Symposium (89), 94% were authored by at least one male researcher, contrasting with 66% of those authored by at least one female researcher, which means that 34% of the oral papers were authored only by male researchers, and 6% only by female researchers (Figure 1B). However, when the gender of the presenter (the researcher who has effectively given the talk) is considered, the picture is considerably worse: 67% of the presenters were male and 33% female researchers (Figure 1C), i.e., less than half of the oral papers authored by female researchers were actually presented by them.

The response to the presentation “*Women in cephalopod research: Past and present*” delivered by ALA during the CIAC 2012 Symposium showed that many colleagues, both male and female, felt that a written account, highlighting the many successes of pioneering female cephalopod researchers and their contribution to the cephalopod research community, particularly through their contribution to CIAC, would be timely and appropriate. We present it here, as an introduction to this Special Issue, and hope that it will be an inspiration to

current researchers, both male and female, and serve as a reminder of the importance of research outputs of female scientists having equal visibility to those of male colleagues. The unmistakable features of these scientists, many of whom are illustrated in Figure 2, were their pioneering attitudes, exceptional knowledge and genuine love for science. Indubitably, this passion made them live very long and productive lives, while producing an in-depth contribution to the field of cephalopod research. To further enhance the visibility of the research of the included scientists, we present tables listing the cephalopod taxa they described (Table 1), the cephalopod taxa named in their honour (Table 2) and their complete bibliographies in Supplementary online information.

### **The careers of noted female cephalopod researchers.**

#### ***Jeanne (Jeanette) Villepreux-Power (1794-1871)***

- 1794 Born 25<sup>th</sup> September at Juillac (Corrèze, France) in a rural family.
- 1812 Moved to Paris to work as an embroiderer.
- 1816 Met James Power, a wealthy Irish merchant established at Messina (Sicily). She learned both English and Italian, and began to teach herself natural history.
- 1818 Married James Power and joined him at Messina. Began to explore the island of Sicily, its historical sites, and studied the local flora and fauna. She revealed herself as an excellent illustrator.
- 1832 Built different types of sea-water aquaria and submerged cages (for in situ work) to study live marine animals, including *Octopus* and *Argonauta*.
- 1833 Carried out aquarium experiments on brood shell repair in *Argonauta argo*.
- 1834 Reported her experimental results at the Academy of Catania (she subsequently was elected a member of this academy and later joined a dozen other academies).
- 1835 Sent her manuscript to Paris in order to have it submitted to the Academy of Science.
- 1837 Henry de Blainville claimed at the Paris Academy that her results and conclusions were erroneous, since he firmly believed that *Argonauta* inhabited, but did not produce the brood shell!
- 1838 Settled with her husband at London.
- 1838 Anastasio Cocco names Power's deep-water light fish, *Gonostomus poweriae* Cocco, 1838 [= *Vinciguerria poweriae* (Cocco, 1838)], in her honour.
- 1839 Richard Owen defended the study of Villepreux-Power at the London Zoological Society, based on her large collection of well preserved *Argonauta* specimens having undergone brood shell operation (with subsequent repair) that demonstrated the high quality of her experimental study.

1842 Published an impressive, richly illustrated guide-book on Sicily ("*Guida per la Sicilia*") covering the history of Sicily, indicating sites worthy of a visit for each town and village, describing and illustrating hundreds of plants and animals, fossils and minerals, including detailed descriptions of the vegetation covering the freshly eroded (post-eruption) surfaces of the Etna volcano.

1871 Died 26<sup>th</sup> January, aged 77, at Julliac.

Jeanne Villepreux was born in Juillac, daughter of a shoemaker. Her mother died when she was young, and at 18 she moved to Paris to seek work. Her true gift as an artist was discovered during her work as an embroiderer in Paris. It was because of this talent that she was commissioned to work on a wedding gown for the marriage of Princess Caroline to Charles Ferdinand, the younger son of Charles X of France, in 1816. And it was through this commission that she met James Power, a wealthy Englishman who fell in love with her and married her (Debaz 2012).

After her marriage, she moved, with her husband, to Messina, a city in Sicily which was a natural draw to visiting scientists. Since she was an avid reader with a fabulous memory, she soon gained possession of a solid liberal education, which she further developed by her exploration of the island. In Sicily she became well connected, mixing with respected scientists (di Angelo 2012) and likely conversed with, amongst others, Johannes Müller and Albert Kölliker, who visited Messina during her time there (Groeben 2008). She built her own natural history collections, interacting with local fisherman to obtain the specimens she desired and enhance her knowledge (di Angelo 2012). Her two published guides to Sicily (Power 1839, 1842) were unique in that they encompassed such broad knowledge of the surrounding landscape, encompassing accurate information on geology, archaeology, and particularly natural history, and reflected her extensive first-hand knowledge.

Her most famous work, however, was on cephalopods. She made numerous careful observations and carried out extensive experiments, involving regeneration of the shells from shell fragments, to determine that the shell of the argonaut was actually secreted by the animal: a fact that went against the established view (that the shell was 'acquired'). Although the veracity of her findings were denied by some, they were championed by Sir Richard Owen, founder of the British Museum of Natural History, who presented her results to the Zoological Society of London (Owen 1839), and Sander Rang, the renowned French malacologist. Jeanne also studied *Octopus vulgaris*, particularly its use of tools, illustrating how individuals use stones to hold open the shells of *Pinna nobilis* (Power 1860).

In order to pursue her natural history observations on octopuses and argonauts, Jeanne Villepreux designed and built a variety of holding cages which she maintained both at her home and anchored in the port (Groeben 2008), effectively inventing modern aquaria. She further suggested that these might be modified to raise juvenile fish for repopulating Sicily's rivers, thus also advancing modern aquaculture (Arnal 2000).

She left Sicily in 1843 and much of her collection, and many notes and drawings were lost in a shipwreck (Arnal 2000), possibly explaining why her publications

are limited to just a few (Giacobbe 2012).

Jeanne was the first female member elected to Catania's Academy of Natural Sciences, and was a member of at least 16 other academies. Described as the 'mother' of aquaria by Richard Owen, her work had a profound impact on the field of marine biology.

### ***Anne (Annie) Letitia Massy (1868-1931)***

1868 Born 29<sup>th</sup> January in Netley, Hampshire, England.

1885 Aged 17, recorded the first occurrence of a European redstart in Ireland.

1899 Published her first contribution to *Irish Naturalist*: a report on the land shells from County Limerick.

1901 Began work for the Irish Fishery Department.

1907 Published her first scientific paper which included a description of three new species: *Polypus normani*, *Polypus profundicola*, *Heliocranchia pfefferi* (Table 1).

1912-1924 Three cephalopod species are given the specific epithet *massyae* in her honour (Table 2).

1931 Died on 16<sup>th</sup> April, aged 63, after a short illness.

1932 Her last two publications published posthumously.

1964 *Eledone massyae* is named in her honour (Table 2).

The early life of Anne Massy has always been something of a mystery and biographies have failed to find even a record of her birth in the Irish register. However, digitized English birth registers show that Annie Letitia Massy was born in Netley, Hampshire in 1868. Her father was Hugh Deane Massy of Limerick (Byrne 1997). He became a surgeon in the British Army and it is likely that he was posted to the Royal Victoria Hospital, a military hospital in Netley at the time of Annie's birth. Where she grew up is unclear. In the 1881 census, age 13, she is in the north of England, living in a small boarding house with her sister Susan (age 11), and they are listed on the census forms as 'scholars'. She was certainly in Ireland at the age of 17 in 1885 as she recorded the first observation of redstarts nesting in that country. Already apparent at this time was her keen interest in the natural world. Aged 23, she was lodging as a woman 'of independent means' in Warwick, England, according to the 1891 census, and at some point she travelled to Switzerland, since she recalls this in a note to the *Irish Naturalist* (Massy 1922). Possibly her father, who died in 1879, provided for her in his will. But by the 1890s she was certainly back in Ireland. Robert Lloyd Praeger, the founder and editor of *Irish Naturalist*, wrote "Miss Massy I first met in 1894; at that time she had not yet published anything, but was an interested member of the Dublin Field Club, with a good knowledge of birds and marine Mollusca" (Praeger 1949). Her publication on land shells of County Limerick suggests that she spent at least some time at her father's house 'Stagdale' in Co. Limerick. By 1901, according again to census data, she was living in Malahide, Co. Dublin, with her elderly cousin Constance Aster, and it was in this year that she began a 'temporary' job in the Fisheries Division of the

Department of Agriculture and Technical Instruction. It has been insinuated elsewhere (Sigwart and Leonard 2009) that the temporary nature of her job was a reflection of her gender rather than her expertise. Indeed she remained on a temporary contract for the next 30 years until her death.

During these 30 years she established an international reputation. Although for the first few years she continued only to publish minor reports in the *Irish Naturalist*, she published her first scientific paper in 1907. She described three new species of cephalopod in the *Annals and Magazine of Natural History* (later to become *Journal of Natural History*) and this was the start of a career as a professional scientist that was to garner international respect. Despite her lack of formal training and, to the best of our knowledge, any formal qualifications, she quickly established a reputation that led to her being sent molluscs from the Discovery Expedition, the British Antarctic 'Terra Nova' Expedition, and from locations as far flung as India and South Africa. She had regular correspondence with other cephalopod experts of the time such as Guy Robson, Georg Pfeffer and William Hoyle. Four species of cephalopods have been named in her honour by some of the most eminent male researchers of that time (Table 2). There is also a genus of pteropod, *Massya*, named in recognition of her contribution to this branch of molluscan taxonomy (she described and named the type species of the genus).

Despite her professional activities, her interest and involvement with amateur naturalists continued. She was one of the founding members of the Irish Society for the Protection of Birds in 1904 and, in 1926, when the society was on the point of collapse, took on the role of Honorary Secretary. Under her guidance, the society was revitalized. She remained Honorary Secretary for the remainder of her days, resigning just days before her death on 16<sup>th</sup> April 1931 after a short illness (Farran and Moffat 1931).

During her career, she described numerous species (Table 1), made 13 contributions to the *Irish Naturalist* (later the *Irish Naturalist Journal*) and published 24 scientific papers on molluscs, the majority of which were on Cephalopoda. Her careful taxonomic observations are still referred to by researchers today. Extensive investigations in Ireland (Byrne 1997) suggest that no photographs or portraits of Anne Massy exist.

### ***Grace Blair Watkinson (1879-1959)***

1879 Born 1<sup>st</sup> March in Hartford, Connecticut, USA.

1902 BA Smith College, Massachusetts.

1905 MA University of Zurich, Switzerland.

1905-1907 Leipzig University, Germany.

1906-1907 Fellow American Women's Table, Stazione Zoologica, Naples, Italy.

1908 PhD University of Zurich, Switzerland.

1908-1909 Assistant Zoology Instructor, Smith College, Massachusetts.

1959 Died, aged 80, Rochester, New York.



Grace Watkinson was born into a wealthy Connecticut family and educated at Smith College, a private women's college in Massachusetts, founded in 1871 to provide an education equal to men's. Here, she was President of the Biological Society, and upon graduating with a BA, she took a course in Zoology at the Marine Biological Laboratory at Woods Hole. She then moved to Europe studying in Germany, Switzerland, and Italy. She divided her time between the Albert Ludwig University in Freiburg, Leipzig University, and the University of Zurich, where she obtained her MA in 1905, and a PhD in 1908. She held the fellowship of the American Women's Table in the Stazione Zoologica, Napoli, Italy, in 1906-1907. In 1909, her important comparative study of 16 genera was published in which she suggested that the olfactory organs of these cephalopods were chemosensory, although she offered no experimental proof. Her view was upheld 65 years later by an ultrastructural study of these organs in *Octopus* (Woodhams and Messenger 1974).

Grace returned to America, working at Smith College as an Assistant Zoology Instructor from 1908 to 1909. By 1910, she was in New York, teaching biology in high schools. Nevertheless, she returned again to Europe, marrying Richard Werner Marchand, whom she had met in the laboratory of Carl Chun in Leipzig, in London in December 1911. Her husband took a post at the Rockefeller Institute for Medical Research in Princeton, New Jersey and this return to the USA marked the end of her scientific research career. Nevertheless, her achievements were remarkable for a woman of that time. Grace was widowed in 1936, and died at the home of one of her sons, in 1959, at the age of 80.

### ***Grace Evelyn Pickford (1902 -1986)***

- 1902 Born 24<sup>th</sup> March in Bournemouth, England to William Pickford, a newspaper editor and her mother, a governess.
- 1925 Graduated from Newnham College, Cambridge University.
- 1931 PhD conferred by Yale University. Subsequently printed in 1937 as '*A monograph of the acanthodriline earthworms of South Africa*' by her father's newspaper, the Bournemouth Guardian.
- 1931 Joined the Bingham Oceanographic Laboratory at Yale University, New Haven, Connecticut.
- 1936 Began to publish an extensive series of papers on Vampyromorpha that continued until 1949.
- 1947 Began research on the killifish *Fundulus heteroclitus*.
- 1951 Joined a leg of the *Galathea* deep-sea research expedition.
- 1953 A genus of myosid squid, *Pickfordiateuthis*, is named in her honour (Table 2).
- 1954 *Doryteuthis pickfordi* is named in her honour (Table 2).
- 1957 Appointed Lecturer at Yale University, where she spent the next 23 years focusing on fish endocrinology.
- 1969 Appointed Full Professor at Yale University.

- 1970 Retired.
- 1981 Received the Wilbur Lucius Cross Medal from the Yale Graduate School.
- 1982 The International Society of Comparative Endocrinology established the Grace E. Pickford Medal.
- 1986 Died 20<sup>th</sup> January, aged 83.

Grace Pickford was born and grew up in England, and studied at Cambridge University. She was a founding member of the Cambridge University Biological Tea Club (Slobodkin and Slack 1999) where she mixed with fellow students such as Joseph Omer Cooper (subsequently Chair of Zoology at Rhodes University), George Evelyn Hutchison (limnologist and Professor at Yale), Gregory Bateson (anthropologist). She married George Hutchison briefly and accompanied him first to South Africa, where she studied earthworms for her PhD, and subsequently to Yale. A lectureship was apparently out of the question for women at that time (Slack 2003) but Hutchison secured research space for her before accepting his own position there. She subsequently established herself at Yale's Bingham Oceanographic Laboratory as a Research Fellow, Assistant, and later Associate. Although Grace Pickford may be best known for her work on fish endocrinology that began in 1947, the cephalopod world will remember her remarkable series of papers on *Vampyroteuthis* that she produced between 1936 and 1959. Grace was the first to recognize the unique features of *Vampyroteuthis* that distinguished it from other octopods, raising a new order, Vampyromorpha, to accommodate the genus. Her conclusions were drawn from careful anatomical work and based on the collections at Yale's Bingham Oceanographic Laboratory, and other collections at her disposal. Her investigations were typically thorough. In 1938 she wrote that she had "now re-examined all known specimens, with the exception of two young larvae" and based on these studies, she was able to conclude that only a single species of vampyromorph existed, synonymizing all other genera and species under Chun's original *Vampyroteuthis infernalis*. These meticulous studies resulted in access to other collections and her participation in a leg of the Danish *Galathea* expedition. Her invitation from Anton Bruun came at a time when women could not participate on the US Navy research vessels (Slack 2003). Even on *Galathea* she was the sole female amongst 104 men (White 1951). According to Wolff (1956), when Grace joined *Galathea* in Colombo, "there was a little murmuring in corners at this invasion of our masculine stronghold by a woman". However her enthusiasm and dedication (for example completing a paper on octopuses in the Raffles Museum whilst the ship was in Singapore for repairs) quickly made her part of the team. At that time her 'knowledge of cuttlefish and octopuses' was described as 'so great that what she did not know was not worth knowing' (Mielche 1953). She later described her three months in the Indian Ocean, Gulf of Siam and South China Sea as a 'privilege' (Pickford 1959) and spoke about it with great pleasure (Ball 1987).

After refocusing her research on fish endocrinology, she built a long and successful career at Yale University, despite Yale most definitely being a man's world at that time. Indeed, when promoted, a year before her retirement, she became the first female biologist to become a full professor at Yale (Slack 2003). Truly she broke new ground. Despite the disadvantages and obstacles conferred

by her gender, she published 135 research papers and obtained 32 years worth of National Science Foundation funding. She was noted not only for her intellectual ability and drive, but also for her integrity and kindness (Ball 1987).

### ***Anna McClean Bidder (1903 – 2001)***

- 1903 Born 4<sup>th</sup> May in Cambridge, England to George Parker Bidder and Marion Greenwood Bidder, both academics.
- 1915-1921 Perse School, Cambridge.
- 1921-1922 University College London.
- 1922-1928 Newnham College, Cambridge.
- 1926-1928 Basel, Switzerland, spent winter sessions.
- 1926 Graduated from Newnham College, Cambridge University.
- 1934 PhD conferred by Cambridge. Thesis title: '*The functional morphology of the digestive system of cephalopods.*'
- 1929-1965. Taught zoology at University of Cambridge.
- 1939 Took a place on the Society of Friends Peace Committee until 1946.
- 1950 Founder member of the 'Dining Group', later known as *The Society of Women Members of the Regent House who are not Fellows of Colleges.*
- 1963 Hugh Watson Curator of Malacology in the Museum of Zoology, Cambridge until 1970.
- 1965 Became first President of Lucy Cavendish College, a role she fulfilled for the next five years.
- 1973 President of the Zoological Section of the British Association for the Advancement of Science.
- 1989 Co-author of the cephalopod volume of Grassé's *Traité de Zoologie.*
- 1991 Elected Fellow Honoris Causa by the Linnean Society of London.
- 2001 Died 1<sup>st</sup> October, aged 98.

Anna McClean Bidder was born in Cambridge on 4<sup>th</sup> May, 1903 to a wealthy but academic family. Her father, George Parker Bidder, was a zoologist, but his father had made money through collieries. Her mother, Marion Greenwood Bidder was a botanist and physiologist and her family owned a textile business. Anna studied first at University College London and then at Cambridge, graduating in zoology in 1926. She worked briefly in Basel, Switzerland, researching yolk absorption in *Loligo* before returning to Cambridge to commence a PhD on the functional morphology of the cephalopod digestive system (Haynes 2001). Despite going on to pursue research, neither Grace Pickford (see previous) nor Anna Bidder was awarded an undergraduate degree from Cambridge equivalent to those awarded to men, as the university authorities refused to officially recognize the women's colleges until 1948. Experiencing the lack of equality afforded women in academia first hand, Anna, in 1951, formed a 'Dining Club' with two other female academics. This was the

origin of a new female college. After much campaigning, Lucy Cavendish Collegiate Society became an Approved Society for women graduates in 1965, and admitted its first undergraduates in 1972. The College was very short of funds in its early years, and Anna's family wealth was invaluable: she served as its first President in an unpaid capacity (Anon 2001).

In 1986, Peter Douglas Ward visited Anna and recorded their conversation, and included a transcription in a chapter entitled '*Nautilus* observed: Anna Bidder 1960' in his book (Ward 1988). This includes Anna's description of her childhood and early studies in France, and interest in cephalopods.

During this period Anna did not neglect her academic research. In 1960 she obtained funding to study *Nautilus* and subsequently departed for the west Pacific. The results of her research were published in *Nature*. Anna's vast knowledge of cephalopods can be seen in chapters in Grassé's 1989 '*Traité de Zoologie: Anatomie, Systématique, Biologie. Tome V. Céphalopodes*', of which she was a co-editor with Adolf Portmann and Katharina Mangold.

Katharina Mangold and Marion Nixon visited Anna in Cambridge on several occasions in the 1990s. She showed them her careful drawings of the digestive system of *Nautilus* while describing the organs and their functions in considerable detail. Anna was kind and generous especially with young teuthologists. On one occasion she invited all the participants of a meeting of cephalopod biologists to lunch where she proved a gracious hostess as well as an entertaining one, full of stories of her expedition to the Pacific to investigate *Nautilus*. She was a member of the University Women's Club in Mayfair, London, and delighted in surprising her visitors by revealing a secret door in the library. Even after retirement she was full of enthusiasm about the work that was being carried out on cephalopods, and talked often of her work at the Cambridge University Zoology Museum, and at Lucy Cavendish College when for relaxation during the lunch hour she would row on the river Cam.

She remained active until late into her life. Together with JZ Young she made a brief appearance at the 1993 CIAC-endorsed Southern Ocean Cephalopod Symposium in Cambridge. In 1997 (aged 94) she attended and spoke at a celebration marking the grant of a royal charter and full university college status to Lucy Cavendish College (Traub 2001). The college crest bears a *Nautilus* in her honour.

After her death Paul Rodhouse was given her collection of reprints and books, including some rare early publications. The collection was held at the British Antarctic Survey until Paul's retirement when they were given to Lucy Cavendish College Library. They are available for the use of visiting cephalopod workers by arrangement.

### ***Zulma Judith Ageitos de Castellanos (1922 -2010)***

1922 Born 6<sup>th</sup> April in San Antonio de Areco, Buenos Aires Province, Argentina to José María Ageitos and Leonor Deban.

1935-1940 Studied at Ladies College, La Plata National University.

1941-1947 Studied Zoology at La Plata National University.

- 1943-1990 Taught and researched in Zoology, mainly in Malacology, at La Plata National University.
- 1947 PhD conferred by La Plata National University. Thesis published in *Revista del Museo de La Plata* in 1953.
- 1947 Married Luis María Castellanos.
- 1948 Began to publish an extensive series of papers on Gastropoda and Polyplacophora that continued until 1995.
- 1960 Published 'Una nueva especie de calamar argentino: *Ommastrephes argentinus* sp. nov. (Mollusca, Cephalopoda)' in *Neotropica*, and began to research intensively on the cephalopods of the southwest Atlantic Ocean.
- 1967 Published '*Catálogo de los moluscos marinos bonaerenses*', containing 11 species of cephalopods.
- 1983-1996 Published four text book volumes on invertebrates.
- 1986 Included in a biographical dictionary of relevant Argentine women from 1556 (Sosa de Newton, 1986).
- 1990 Retired from teaching, but continued researching and publishing.
- 2000 Declared 'Outstanding Woman of La Plata' by the City Council.
- 2010 Died 29<sup>th</sup> August in La Plata, aged 87.

Zulma Judith Ageitos was born 6<sup>th</sup> April 1922 in San Antonio de Areco, a small pampas village within the Province of Buenos Aires, that she always remembered as "*a land of gauchos and wheat fields*". As a teenager, her family moved to La Plata, where she lived for the rest of her life. She made foundation studies at the Ladies College of La Plata National University and went on to study Zoology at the Faculty of Natural Sciences and Museum of the same institution. As early as 1943, she revealed herself to be an enthusiastic student of invertebrates, particularly molluscs, and she began her teaching career at the University as a Teaching Assistant. The year 1947 was a landmark in both her professional and personal life. She was awarded a PhD for her study on the ganglionic structure of Argentine molluscs under the guidance of Prof. Raúl A. Ringuelet and, on April 16<sup>th</sup>, she married Luis María Castellanos. While she upgraded her teaching position to that of Full Professor of Invertebrates I, she researched intensively a diversity of both marine and freshwater taxa. Between 1948 and 1995 she published 115 scientific articles on Polyplacophora, Bivalvia, Gastropoda, and Cephalopoda. Her research on Microgastropoda represents an outstanding contribution to the knowledge of the group in the southwest Atlantic region. Four gastropod species were named in her honour: *Littoridina castellanosae* Gaillard, 1974 (now *Heleobia castellanosae*), *Calliostoma castellanosae* Brunet, 1995, *Turbonilla zulmae* Pimenta & Absalão, 1998, and *Zilchogyra zulmae* Miquel, Ramírez & Thomé, 2004. Her papers on taxonomy of Argentinian Polyplacophora were cited by the main treatises on invertebrate zoology at that time, e.g. Grassé (1959: vol. 5, part 2) and Hyman (1967: vol. 5). She had a close relationship with the Instituto Antártico Argentino so she examined most mollusc samples gathered during the Argentinean Antarctic surveys.

In 1960, she started her research on cephalopods with the description of a new species of squid: *Illex argentinus*. In the following years she published on the biology of the Argentine squid and the São Paulo squid *Loligo brasiliensis* (now *Doryteuthis sanpaulensis*) and increased our knowledge of *Martialia hyadesi*; she wrote only the second article on this species 77 years after its description. In 1967 her catalogue of the marine molluscs of Buenos Aires Province appeared with information on the description and distribution of 286 species, 11 of them cephalopods. From 1977 to 1980 Zulma published her last three papers on cephalopods. Between 1988 and 1993 her '*Catálogo descriptivo de la malacofauna marina magallánica*' appeared in 12 installments (covering Polyplacophora and Gastropoda).

Zulma acted as a supervisor for 24 undergraduate degrees and PhD theses, five of them on cephalopods. She was Chief Editor of the scientific journal *Neotropica* (1975-1992) and the monographic series '*Fauna de agua dulce de la República Argentina*' (1982-1995). In 1970 she was in charge of the restoration of the Invertebrates Hall of La Plata Natural Sciences Museum.

Simple food, simple dressing, no makeup. She never left her small-town customs. In all modesty she used to say that she knew very little, but yet she identified enigmatic samples of the invertebrate fauna of Argentina with a speed and certainty that dazzled students and colleagues.

Zulma was a wonderful teacher. Her lessons were delightful in the classroom, but her day-by-day interchange of experience was still better. Her lab was open to students collecting their own samples in the field. She was even more enthusiastic than younger people when invertebrates appeared under the microscope. Zulma often said "look at this... oh, please look...", while she was at the microscope... but nobody could see anything until she realized she had to give up her place. On any kind of microscopic animal she was able to provide an academic explanation and show some books or papers from her library to illustrate the finding. And she was really generous in sharing her knowledge.

At home, with the same care, she was devoted to her children and grandchildren, who lived in adjoining houses to hers until the end.

Like most of her generation, national policy deeply marked Zulma's life but she had the rare virtue of maintaining her political views while making social compromise. After retiring, she moved from policy to action by walking low-income neighbourhoods to seek help for needy families, teaching the principles of health care and teen pregnancy prevention. This was the authentic Zulma. Close to people, she perhaps did even better than among the palatial sophistication of university policy.

### ***Katharina Maria Mangold-Wirz (1922-2003)***

1922 Born 23<sup>rd</sup> May in Basel, Switzerland, daughter of Eduard Wirz (1891-1970, school teacher, free-lance historian and writer) and Clara Wirz-Bürgin.

1940 Graduated from high school in Basel.

1943 Completed three years of medical studies at Basel University.

- 1948 Completed her zoology studies at Basel University 1943-1948; PhD (D Phil II). Her thesis was published in 1950 in *Acta Anatomica*.
- 1948 Awarded a three-year scholarship by the Janggen-Pöhn Foundation (St. Gallen, Switzerland) 1948-1951 for research mainly on gastropods (opisthobranchs) in Villefranche-sur-Mer and Banyuls-sur-Mer, France (from 1950).
- 1951 Full-time researcher (Attachée de Recherche) in the French Centre National de la Recherche Scientifique (CNRS) 1951-1961. From this point her research was mostly on cephalopod biology.
- 1958 Married Walter Mangold (born 1909 in Basel, Switzerland).
- 1961 Awarded Doctorat ès Sciences Naturelles (Doctorat d'État) from Paris University. Thesis published in a 1963 supplement of *Vie et Milieu*.
- 1961 Research fellow (Chargée de Recherche) at CNRS 1961-1965.
- 1966 Senior Researcher (Maître de Recherche = Directeur de Recherche de deuxième classe) at CNRS 1966-1987.
- 1969 Appointed visiting Research Professor, Memorial University, Newfoundland, Canada.
- 1981 Attended CIAC Charter Meeting in Plymouth, England.
- 1983 Attended CIAC Charter Meeting in Banyuls-sur-Mer, France where she was appointed the first President of CIAC, 1983-1985.
- 1987 Retired.
- 1989 The cephalopod volume of Grassé's *Traité de Zoologie* is published (Grassé and Mangold 1989).
- 1994 Appointed Honorary Life Member of CIAC.
- 2003 Died 10<sup>th</sup> November 2003 in Basel, aged 81.
- 2004 *Microeledone mangoldi* named in her honour.
- 2007 *Asperoteuthis mangoldae* named in her honour.

Katharina Mangold spent her early years together with her parents and her brother Eduard (Edi) in Basel. After high school she started medical studies with the ambitious project to become a brain surgeon. A consultation with one of the leading specialists in Switzerland convinced her that she was not a promising candidate for this severe profession, since she was female, short, and appeared frail! She therefore gave up her original project and continued her university studies in Zoology. She finally worked on the brains of non-human mammals, the zoologist Adolf Portmann (1897-1982) being her major professor and PhD advisor. Professor Portmann subsequently guided her post-doctoral activities in marine zoology at Villefranche-sur-Mer and Banyuls-sur-Mer and remained her mentor to the end of his life.

Starting in 1950, Katharina's cephalopod studies in Banyuls were conducted in the full-time research system of the French C.N.R.S. In this system, a foreign PhD title was good enough to be provisionally hired by C.N.R.S. (Attaché de Recherche), but to get tenure (Chargé de Recherche), one had to be a French

'Docteur d'État'. Hence Katharina's second thesis published in 1963.

The years from 1950 to 1975 were inspiring, productive years, marked not only by Katharina's full integration in the Laboratoire Arago 'family', but also by her regular participation in international meetings, e.g. the 2<sup>nd</sup> International Oceanography Congress held in Moscow in 1966 (with a cephalopod symposium organized by Gilbert L. Voss). Starting in the early 1960s, Adolf Portmann associated Katharina Mangold as his co-author for the revision of the cephalopod volume in Grassé's *Traité de Zoologie* (the original version submitted by Portmann in 1958 had been deemed too concise by Professor Grassé!). This revision became a very long process, since all attempts by the tandem Portmann and Mangold to integrate the respective 'latest results published' led to a never-ending race against time. The very efficient editorial assistance of Anna Bidder starting in the 1970s finally brought the cephalopod volume to completion.

For several years from 1976, Katharina encountered serious 'bio-political' problems. In September 1975, Katharina and her collaborator Dr. Dieter Frösch (employed on a Swiss scholarship since 1973) attended an international symposium, sponsored by C.N.R.S. and held in Lille, France. The subject area was '*Biosynthesis, metabolism and action at the cell level of hormones in invertebrates*'. Mangold and Frösch presented a communication entitled 'Neurosecretion in the orbita of octopod cephalopods'. This presentation – or something related to it that nobody realized – apparently displeased one of the symposium organizers, an influential member of the C.N.R.S. committee that evaluated Katharina's application (in December 1975) to be promoted to the rank of Directeur de Recherche (= DR 1<sup>ère</sup> cl.). Under normal circumstances, this application would have been supported by a majority of committee members, but under the 'special circumstances' then reigning, the promotion was turned down. Although Katharina Mangold remained the official leader of the (still heavily criticized) 'Cephalopod Group' at the Laboratoire Arago in Banyuls, the guerrilla warfare lasted several years, preventing Dieter Frösch from being hired by C.N.R.S. Disgusted with this adversity, Kathy intensified her international contacts and travelled more regularly than before to participate in collaborations abroad. Thus she was able to at least enjoy the quiet after the storm. Two comforting highlights of her life in Banyuls were (1) the organization of the first CIAC workshop and symposium in 1985, two years before she retired, and (2) the long awaited publication of the cephalopod volume in Grassé's *Traité de Zoologie*, in 1989.

Katharina continued to publish long after her official retirement and was a prominent figure at meetings internationally, not least because of her vitality.

Katharina always helped teuthological and other new-comers from Basel University to get off the ground with their research in Banyuls (e. g. Hans-Rudolf Haefelfinger, Pio Fioroni, Marcus von Orelli, Alfred Bürgin, Sigurd von Boletzky, Hans-Jürg Marthy) and she remained the most popular mentor for female students engaged in cephalopod research – be it in Banyuls or elsewhere. She had played that role early on for Eve Boucaud-Camou (Caen and Luc-sur-Mer), Helen Bradbury (St. Johns, Newfoundland), Renata Boucher-Rodoni (her first PhD student from Geneva), Pilar Sánchez (Barcelona), Patrizia Jereb (Mazaro del Vallo), Teresa Borges (Faro). This role naturally led to a 'grandmother' status



when subsequent generations started in cephalopod research (e.g. Laure Bonnaud, Renata's PhD student in Paris). Katharina 's last PhD student before she retired was Richard Tait from the University of Melbourne (Australia). After retirement Katharina kept in touch with colleagues and continued to publish.

***Nancy A. Voss (1929 - present)***

- 1929 Born 20<sup>th</sup> November in Boston, Massachusetts, USA.
- 1951 Obtained a Bachelor of Arts from Mt. St. Agnes College, Baltimore, MD, USA. Entered graduate program at The Marine Laboratory, University of Miami, Miami, Florida, USA.
- 1954 Obtained a Masters degree from the University of Miami.
- 1955 Co-authored with husband Gilbert L. Voss an ecological study of Soldier Key, Florida.
- 1957 Returned to The Marine Laboratory as Research Instructor after the births of her two children.
- 1960 Co-authored with Gilbert L. Voss an ecological study of Bimini, Bahamas.
- 1969 Published a monograph on the family Histioteuthidae.
- 1973 Appointed Research Assistant Professor at the Rosenstiel School of Marine and Atmospheric Science (RSMAS; formerly The Marine Laboratory), University of Miami.
- 1974 Appointed Research Associate Professor at RSMAS.
- 1980 Published generic revision of the family Cranchiidae.
- 1981 Appointed Research Professor at RSMAS.
- 1981 Attended CIAC Charter Meeting in Plymouth, England, and was the histioteuthid and cranchiid section leader at the *International Workshop on Taxonomy and Identification of Cephalopod Beaks* in Plymouth.
- 1983 Attended CIAC Charter Meeting in Banyuls-sur-Mer, France where she was appointed to the first CIAC council. She remained on council until 1991.
- 1985 Section leader at the *International Workshop on the Early Growth Stages of Cephalopods*, and Session Chair at the CIAC Symposium on the *Biology and Distribution of Early Juvenile Cephalopods* at Banyuls-sur-Mer, France.
- 1986 Elected President of CIAC, and was Rapporteur at the CIAC Symposium on *Life History, Systematics and Zoogeography of Cephalopods* in Monterey, California, USA.
- 1988 Group leader and gave two presentations at the CIAC International Workshop on Systematics and Biogeography of Cephalopods in Washington DC, USA.
- 1989 Appointed Director of the RSMAS Marine Invertebrate Museum.
- 1990 Participated in the Symposium on *Systematics, Biology and Fisheries of Cephalopods* in Woods Hole, Massachusetts, USA.

- 1998 Edited the 1998 *Smithsonian Contributions to Zoology* volume resulting from the 1988 workshops.
- 1999 Participated in the Workshop *Systematics, ecology and biology of cirrate octopods* in Washington DC, USA.
- 2001 *Nancyplax vossi* a crab species, is named in her honour, recognizing her promotion of the collections in her care.
- 2004, 2006 *Lumbricalus vossae* and *Scolelepis vossae*, both polychaete worms, are named in her honour.
- 2007 Became Research Professor Emeritus at RSMAS.

Nancy Voss is Emeritus Professor at the Rosentiel School of Marine and Atmospheric Science at the University of Miami and Director of the Marine Invertebrate Museum there. Nancy first joined University of Miami as a graduate student in 1951, and apart from a short career break to raise a family after marrying Gil Voss in 1952, she has worked or studied there all her life.

Nancy has undertaken hugely valuable systematic and zoogeographic studies on pelagic cephalopods, studying families with global distributions and slowly accumulating sufficient specimens to find discriminating and uniting characters for difficult groups. Her earliest papers are not on cephalopods but she was swiftly drawn in. Her first single-authored cephalopod manuscript described new species of Histioteuthidae and laid the groundwork for an awesome monograph on the family. This volume, at more than 150 pages, described new species and subspecies, synonymized genera, redefined the genus *Histioteuthis*, and designated neotypes. It included illustrations (by Nancy) of beaks, radulae, buccal membranes, spermatophores, as well as the habitus and main feature of all the species. By the time of the 1981 beak workshop in Plymouth, England, Nancy was focusing on cranchiids as well as histioteuthids and she led the work for these chapters in Malcolm Clarke's classic text. Her work on the family Cranchiidae was extensive and she produced a generic revision, and phylogenetic studies of the family, including detailed work on the genus *Teuthowenia*. She wrote a chapter on cranchiid evolution for Volume 12 'Palaeontology and neontology of cephalopods' of *The Mollusca* (Clarke and Trueman 1988).

Nancy also obtained larval material of cranchiids, histioteuthids, and promachoteuthids. Her contribution to the 1985 CIAC workshop on early life forms was substantial, her material and knowledge forming the basis for the chapters on these families in the "*Larval and juvenile cephalopods*" volume.

Her contributions to CIAC workshops are clear from her research. But she was also a founder member, contributing to the 'charter meetings' at the 1981 Plymouth workshop and the 1983 Banyuls workshop, from which CIAC was borne. Nancy served as the second CIAC President from 1986-1988 and continued to serve on the Council until 1991.

Nancy was the lead editor on the highly cited 1998 double volume in *Smithsonian Contributions to Zoology* resulting from a 1988 CIAC systematics workshop. This workshop brought together researchers from around the world and enabled access to unreported Atlantic collections and collections in

institutes in the former USSR. Editing did not deter Nancy from embracing this opportunity to advance her research. Together with Kir Nesis and Paul Rodhouse, she produced another monographic chapter on Histioteuthidae.

Nancy took over as Director of the Rosenthal School Marine Invertebrate Museum in 1989 and since then has had her research time squeezed tremendously. Nevertheless, she has lent her vast knowledge and experience of systematics and biogeography to another difficult group, the cirrates, at the cirrate workshop held in Washington, DC in 1999. She retains her post as Professor Emeritus and is still working on cranchiid manuscripts whenever time permits.

### **Marion Nixon (1930 – present)**

1930 Born 11<sup>th</sup> August, Thornton Heath, Surrey, England.

1942-1948 Selhurst Grammar School for Girls, Croydon, Surrey

1955 Married Dennis Andrew Nixon.

1956-1962 Birkbeck College and Chelsea College, University of London, part-time degree course.

1962 Bachelor of Science, Zoology

1962 Joined the Anatomy Department, University College London.

1968 PhD awarded by University of London based on her studies of feeding and growth in *Octopus vulgaris*.

1972 *Oxford Book of Vertebrates*, Oxford University Press.

1977 Co-organized meeting of cephalopod researchers at The Zoological Society of London, and co-edited the resulting volume with John Messenger.

1983 Attended the Charter Meeting of CIAC in Banyuls-sur-Mer, France.

1983-1988 Editor of CIAC Cephalopod Newsletter.

1995-1997 Member of CIAC Council.

1994-2014 Publication of chapters for Coleoidea volume of the *University of Kansas Treatise of Invertebrate Paleontology*.

2012 Appointed Honorary Lifetime Member of CIAC.

Marion Nixon worked at University College London where, as well as periods spent at the Stazione Zoologica, Naples, her research was carried out. Cephalopods, and especially *Octopus vulgaris*, dominated her research and resulted in almost 50 years of publishing including more than 60 papers and book chapters. She collaborated with some of cephalopod biology's outstanding researchers. Her first publication was with Noel Dilly and Andrew Packard and latterly chapters on living and fossil cephalopods for *The University of Kansas, Treatise of Invertebrate Paleontology*. Marion became interested in the feeding mechanisms of cephalopods and published a series of papers on the radula and beaks of *Octopus vulgaris* from the 1960s. Her interest extended to their macrostructure, the proteins present in them, the tissues which secrete them, as

well as longitudinal studies of the growth of the animal and of their radulae and beaks. Other cephalopods she studied included the cranchiid squid *Taonius megalops*, the oegopsid squid *Mastigoteuthis*, and the cirrate octopod *Cirrothauma*, as well as scanning electron micrographs of the suckers of 12 genera of cephalopods and their function in feeding. Her researches on the radula and beak allowed her to compare the features of the buccal mass in living forms with those in fossil cephalopods; this was aided by her development of a formula for the teeth present in one horizontal row of the radular ribbon. Her knowledge across multiple taxa made her chapters on systematic characters of cephalopods so valuable in the 1988 CIAC workshop volume "*Larval" and juvenile cephalopods: A manual for their identification*. In the 1990s she and Katharina Mangold collaborated in studies of the lives and development, from hatching to death, of *Octopus vulgaris* and *Sepia officinalis*.

In 1974 J. Z. Young retired from the Anatomy Department of University College London and moved to the Wellcome Institute for the History of Medicine. Here he and Marion continued to study cephalopods and began '*The brains and lives of cephalopods*', which was published in 2003. In a review in the Journal of Plankton Research, Andrew Packard described the book as 'a scholarly and thoroughly readable treatise covering, soberly, genus by genus and brain by brain, senses and effectors, much of what is known about 125 of the 140 extant cephalopod genera. The achievement is a tribute to all concerned'. The book's publication six years after JZ's death is particularly a tribute to Marion's determination.

Her early involvement in cephalopod biology meant that Marion was present at the 'birth' of CIAC. She was no stranger to gatherings of cephalopod biologists having co-organized a meeting at the Zoological Society of London, and co-edited the published volume resulting from the meeting. From 1983 until 1988 Marion was Editor of the CIAC Newsletter; she contributed to the volumes resulting from the CIAC workshops held in Banyuls-sur-Mer, France, in 1975, and that from Washington, USA, in 1985. She also served on the CIAC Council from 1995-1997.

Latterly Marion contributed five chapters to *The University of Kansas Treatise of Invertebrate Paleontology*; she was also a sub-editor for some years. These chapters were published between 2010 and 2014, the last being on the buccal apparatus of living and fossil cephalopods. They were issued in separate parts as Part M, Treatise Online, and are due to be published in one volume, Part M, Coleoidea.

### ***Joyce Wells (1930 - present)***

1930 Born 14<sup>th</sup> October in Hitchin, Hertfordshire, UK.

1935 - 1947 Attended Hitchin Girls Grammar School.

1948 - 1951 Attended Cambridge University.

1951 - 1953 Studied for PhD in Entomology (not completed due to her move to Naples)

1958 and 1961 gave birth to Dominic and Simon respectively. Dominic is currently Professor in Translational Medicine at the Royal Veterinary College in London and Simon is a film director living in Los Angeles and working for Dreamworks.

Joyce Wells read Natural Sciences/Zoology at Newnham College, Cambridge, from 1948 to 1951, and was awarded the Edith Rigby Scholarship in 1951. She was a Research Student from 1951 to 1953, before going to work in the Stazione Zoologica together with her husband, Martin J. Wells, whom she had married in 1953.

Their first paper, 'Tactile discrimination and the behaviours of blind *Octopus*', was published in 1956 in the *Pubblicazioni Stazione Zoologica*, Naples. They published numerous other papers as a pair throughout their working life. Martin Wells wrote in the preface to his 1962 book '*Behaviour in cephalopods*' that "I should like to thank Joyce Wells, my wife and also a zoologist, for allowing herself to be seduced away from research in entomology into working on cephalopods; a great deal of the work published under our joint names has been done by her, knowing quite well that as the wife of the senior author she would never get the credit she deserves for it."

After their return to Cambridge, England in 1956 they continued to pursue their research in Naples during the summer months. In the 1970s they moved their summer base to the "Laboratoire Arago," the Marine Biological Station of Banyuls-sur-mer in southern France. In 1989, Martin and Joyce, went to Papua New Guinea to investigate the habits of *Nautilus*, which later, in a collaboration with Ron O'Dor, resulted in 'Life at low oxygen tensions: The behaviour and physiology of *Nautilus pompilius* and the biology of extinct forms' published in 1992 in the *Journal of the Marine Biological Association*, UK. Joyce held the Phyllis and Eileen Gibbs Travelling Research Fellowship in 1989.

On returning to Cambridge in 1956, Joyce supervised undergraduate students and demonstrated practical classes in Zoology. From 1967-1970 she was a tutor at Girton College and she was appointed Senior Tutor at Newnham College in 1970 and held other administrative posts including serving on the Universities Central Council on Admissions committees until retiring in 1995. She remains Fellow Emerita.

### ***Julia Arsent'evna Filippova (1934-present)***

1934 Born 30<sup>th</sup> August in Moscow, Russia, USSR.

1952 Commenced study at Moscow State University, graduating in 1957.

1956 First research expedition: six months aboard the schooner *Nerpa* in the North Pacific.

1957 Took up her first research post in the benthic laboratory at the Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow.

1962 Research expedition aboard *RV Vityaz* to the Indian Ocean and Australia.

- 1965 Began postgraduate study at the All-Soviet Research Institute of Fishery and Oceanography (VNIRO), Moscow.
- 1976 PhD awarded by the Shirshov Institute of Oceanology, Moscow. Her thesis examined the systematics, distribution and ecology of ommastrephid squids.
- 2000 Helped organize the special Russian symposium in Aberdeen as part of CIAC 2000.
- 2011 Officially retired from VNIRO.

Julia Arsent'evna Filippova, honoured Russian cephalopod scientist, was born on 30<sup>th</sup> August, 1934, in Moscow, into a family of office workers. She showed a growing interest in biology throughout her childhood, and in 1952 entered the Biological Department of Moscow State University. She studied in the Department of Invertebrate Zoology under the guidance of the famous zoologist and hydrobiologist Professor LA Zenkevich and specialized in marine zoology. Julia made her first sea voyage in the summer of 1956, when she took part in a whaling expedition to the Bering Sea that was organized by the PP Shirshov Institute of Oceanology (Moscow). The expedition was carried out on a small whaling schooner *Nerpa* where living conditions were hard and fresh water was always limited. Working on *Nerpa* for six months, Julia ploughed the unsafe waters of the Bering Sea from Kamchatka to Alaska and from the Chuckchee Peninsula to the Aleutian Islands. At just 22 years of age, many might have found the hardships of such a long voyage testing, but Julia embraced the opportunity and collected data for her first scientific work as a student 'Zooplankton of the Commandor-Kamchatka region as a feeding ground for baleen whales'.

In 1957 Julia Filippova graduated from Moscow University and took a job in the benthic laboratory of the PP Shirshov Institute of Oceanology. In 1962 she participated in another long cruise aboard *RV Vityaz* to the Indian Ocean and Australian waters. During this cruise she met her future husband – a well-known zoologist and oceanologist Sergej Klumov with whom she lived in harmony for about 40 years before his death.

In 1965 she embarked upon postgraduate studies at the All-Soviet Research Institute of Fishery and Oceanography (VNIRO) in Moscow and started her life-long study of taxonomy, biology, and fisheries of cephalopods. She made a pioneering study of the teuthid fauna of Antarctic waters, and published 45 publications on zoogeography, systematics, morphology, ecology and fisheries of squids and cuttlefishes. In particular, she described a new genus and four new species of squids from Antarctic waters and, together with Dmitrij Khromov, two new species of sepiids (Table 1). It's important to stress that these taxa except one are valid now. She also published two extensive manuals for execution of cephalopod biological analysis in 1972 and 1974. One of the most notable of Julia's publications is that which she co-authored with the famous teuthologist Igor Akimushkin: the chapter '*Class Cephalopoda*' for the very popular USSR multi-volume edition of '*Life of Animals*'. Her PhD thesis '*Systematics, distribution and ecology of the squids family Ommastrephidae*' (1976) became a significant landmark in the study of this important fishery group.

Julia Filippova investigated a wide range of problems in cephalopod biology and

fisheries. But her most important and "long-lived" papers are devoted to fauna, morphology, and especially systematics. No wonder that the outstanding teuthologist Kir Nesis said once: "If the taxon was described by Julia - I believe in it 100%!". However, life in an applied fishery institute constantly "forced" Julia to engage in routine fishery problems and her pronounced talent for systematics, unfortunately, was not fully realized.

Her notable contribution to the study of cephalopods is reflected in the genus and species named in her honour (Table 2).

Working in VNIRO for almost her entire career, Julia Filippova became an original well-known scientist, an amicable person of high culture, good humour, and kind heart. She is a great storyteller and, in private conversation over a cup of tea, events and persons of the glorious past of Russian zoology and hydrobiology come to life, and familiar people and situations suddenly become new and interesting. She always shared her wealth of experience with her students and younger colleagues. Her pupils include such well-known teuthologists as Dimitrij Alexeyev, Vyacheslav Bizikov and Dimitrij Khromov. As the principal investigator driving these PhD studies, she showed a surprising ability to choose research themes that later proved to be highly perceptive. In 1997, in collaboration with her pupils and under her direction, Julia and colleagues published the book entitled '*Commercial and mass cephalopods of the World Ocean. A manual for identification.*'

Since the end of the 1960s Julia has worked on Antarctic squid biology in close collaboration with Valentin Jukhov (Odessa) a well-known researcher of Antarctic cetaceans, fish and squid. He was head of the scientific group in the whaling factory "*Sovetskaya Ukraina*" and participated in 16 Antarctic cruises during the 1960s and '70s. In these expeditions Valentin collected an enormous amount of squid material from the stomachs of sperm whales. Most of this material was studied by Julia and these data, together with large collection of Antarctic squid from trawls made during numerous Soviet research expeditions from the '60s to '80s give her possibility to make generalizations on different aspects of Antarctic squid biology.

At present Julia Filippova is retired but she is preparing a monographic research on the morphology and ecology of squids of the Southern Ocean.

### ***Eve Boucaud-Camou (1939-present)***

1939 Born 11<sup>th</sup> December in Algiers, Algeria.

1961 Graduated with a BSc (*Licence*) in Natural Sciences in 1961, and in Zoology 1962, University of Algiers.

1962 Began post as Assistant Lecturer, University of Caen, France.

1967 Obtained her Masters (*DEA*) from University of Caen.

1968 Doctorat de troisième cycle, University of Caen, France. Her thesis was a histological and histochemical study of the digestive tracts of *Sepiolo atlantica* and *Sepia officinalis*.

1970 Lecturer in Animal Biology, University of Caen.

1973 PhD (Doctorate Sciences Naturelles), University of Caen, France. Thesis examined the digestive tract of *Sepia* and the digestive processes.

1983 Professor of Zoology, University of Caen.

2001 Retired.

Eve Boucaud-Camou was born in Algeria and spent her early life there. She moved to France after graduating with degrees in Natural Science and Zoology. She obtained a post at the University of Caen as an assistant lecturer: a post that she held whilst completing her initial postgraduate studies. From 1970 onwards, she held a post as a full Lecturer. During this time, she also completed a PhD. During her doctoral studies Eve Boucaud-Camou was guided by Kathy Mangold-Wirz, who was also on her awarding jury. She says in the foreword of her thesis that she always received a warm welcome when visiting Kathy's laboratory.

After completing her doctoral studies, Eve began to build her own research group. During her career she supervised 11 theses at the University of Caen and was responsible for the 'cephalopod group' within the "Laboratoire de Biologie et Biotechnologies Marines" at the University of Caen. She was promoted to Professor of Zoology in 1983, a post that she held until her retirement in 2001. She co-ordinated the work of, amongst others, three academics still active in diverse areas of cephalopod research: Jean-Paul Robin (ecology and population dynamics); Noussithé Koueta (juvenile digestive physiology and biochemistry); and Joël Henry (reproductive neuro-endocrinology and genomics). Furthermore she was involved in the eco-toxicological studies of *Sepia officinalis* by Paco Bustamante (currently Professor at the University of La Rochelle). Eve Boucaud-Camou has thus had a lasting effect on cephalopod biology beyond the contributions of her own research.

Dr Boucaud-Camou's personal research contributions were not small. She published over 80 papers and participated in as many as 60 meetings. She initiated and organised the *1<sup>st</sup> International Symposium on the cuttlefish Sepia*. This resulted in a multi-author volume published in 1991 entitled '*La seiche – The cuttlefish*'. This book had (and still has) a considerable impact on cuttlefish research. Eve collaborated with many other prominent cephalopod researchers during this time and was well connected in the cephalopod community, involved in European (EU) projects and International Council for the Exploration of the Sea (ICES) working groups. She was elected to the CIAC council between 1992-1997. In honour of her academic achievements, she was awarded the *Commandeur des Palmes Académiques*, the highest of three medals awarded to eminent academics in France.

### ***Renata Boucher-Rodoni (1942 – present)***

1942 Born in Domodossola, Italy.

1962 Began to study Biological Sciences in Switzerland.

1969 Graduated with a Diploma of Sciences from the University of Geneva, Switzerland.



1973 PhD, University of Geneva, Switzerland. Thesis examining feeding and digestion in *Eledone cirrhosa* and *Illex illecebrosus*.

1980 PhD, University of Orsay, France. Thesis examining the digestive gland during the life cycle of cephalopods.

1983 Researcher at CNRS in Roscoff, France.

1986 Commenced a post at the Museum National d'Histoire Naturelle, Paris, France.

2005 Retired.

Renata is a true European female scientist. Born in Italy, she began to study Science in Switzerland after a year studying interpreting at Geneva University. She obtained a diploma (Master's degree) on rainbow trout spermatogenesis. Her career in cephalopod science started with her PhD. Although she began her PhD in Switzerland (and it was awarded by the University of Geneva), it progressed most in Banyuls-sur-Mer under the supervision of Katharina Mangold who became her friend and remained so until Kathy's death. In 1973, Renata followed her husband, Guy Boucher, to Roscoff, France where he had obtained a position. Here, she began another PhD to, like Kathy, obtain a French PhD that would allow her to obtain appropriate research positions in France. She achieved this in 1980 and on her PhD awarding committee were both Eve Boucaud-Camou and Katharina Mangold.

Renata supported her research with Swiss grants until 1983 when she obtained a position in the CNRS as a researcher. She spent 17 years in Roscoff and developed expertise in cephalopod digestion and the digestive gland. Following her husband (once again), she arrived in Paris at the Museum National d'Histoire Naturelle in 1986.

Renata Boucher-Rodoni was always a step ahead of everybody else in her research. She had intuitions and did not hesitate in the face of scientific challenges. She was the first to embark on the molecular phylogeny of cephalopods and supervised Laure Bonnaud's PhD on Decabrachia phylogeny. Renata was the first to explore bacterial symbiosis in cephalopods and the transmission of bacteria populations to cephalopod eggs as well as processes of co-evolution. As early as 1990, she searched for mechanisms of CO<sub>2</sub>/O<sub>2</sub> diffusion in eggs, research which is now of primary interest in the context of global change.

At the same time she worked actively in the museum collections and in systematics through her collaborative work with CC Lu, Mark Norman and Eric Hochberg. She contributed to ordering and clarifying the sepiid and octopod collections and produced a catalogue of d'Orbigny types.

Finally, she drove forward the restoration of a giant squid offered by Australia. It arrived in Paris in alcohol and was stored for several years until funds were obtained to prepare this specimen for the exhibition of the '*Grande Galerie de l'Évolution*'. Following all the latest developments in specimen preparation, Renata finally decided that 'plastination' would be best for this giant squid. Although the original suckers were eventually kept on the specimen, Renata kept

“metallic moulds” of suckers on her desk for several years that early on were going to be used in the project.

Renata is open minded, and interested in all aspects of science. But she was never recognized as much as she should have been. She never obtained the title of Research Director as she had hoped. She was told by the committee “Votre mari a eu une promotion, vous comprenez bien que nous ne pouvons pas vous en donner une aussi”. No comment.

She is now retired and navigates between Greece and Turkey for six months of the year.

### ***Martina Compagno Roeleveld (1943-2006)***

1943 Born 30<sup>th</sup> November in the Netherlands.

1967 Graduated with Honours in Zoology from Rhodes University.

1968 Appointed Curator of Marine Invertebrates, Iziko Museums of Cape Town: Natural History, South Africa.

1971 Graduated with a Masters degree from Stellenbosch University, subsequently published in 1972 as “*A review of the Sepiidae (Cephalopoda) of Southern Africa*” in the *Annals of the South African Museum*.

1981 Attended CIAC Charter Meeting in Plymouth, England.

1982 Published the first of an extensive series of papers on Ommastrephidae.

1983 Attended CIAC Charter Meeting in Banyuls-sur-Mer, France where she was appointed to the first CIAC council, 1983-1985.

1997 Helped organize the 1997 CIAC symposium in Capetown, South Africa.

2006 Died in Cape Town 30<sup>th</sup> June.

Martina Campagno Roeleveld studied cephalopods for the whole of her adult life. Her initial research focus was on Sepiidae, the subject of her Master’s thesis. She broadened her outlook to encompass all cephalopods in South African waters, making serious efforts to document comprehensively the cephalopod fauna of her adopted country. She turned her attention then to squids and in particular ommastrephids, publishing detailed studies of taxonomically useful characters such as tentacular clubs and statoliths. Later she turned the same careful approach to the giant squid, *Architeuthis*, and it was her work on this subject which she considered to be some of her best. Martina had an almost 40 year long association with the South African Museum at Cape Town. Her study of *Architeuthis* tentacular structure resulted from the need for accurate data to construct a life-sized model for the museum. Characteristically, she drew broad conclusions from this research, interpreting her findings as evidence refuting a sluggish lifestyle for *Architeuthis*. Recent video evidence of giant squid in their natural habitat proves her right.

Martina was involved in many international studies. She published several papers on cephalopod beaks during her taxonomic studies, and she attended the cephalopod beak workshop in Plymouth, England in 1981 where the first CIAC

charter meeting was held. At the subsequent charter meeting in Banyuls-sur-Mer she was elected to the first CIAC council. Martina played a long and active role in CIAC, contributing to numerous systematic workshops. She helped organize both the 1997 symposium in Cape Town '*Cephalopod Biodiversity, Ecology and Evolution*', coordinated the accompanying Workshop on Biodiversity of Southern African Cephalopods, and co-edited the conference proceedings.

Despite her involvement internationally, she never neglected her local environment. Together with a colleague she started the Friends organization at the South African Museum and acted as its inaugural Chair. And she took the study of her local waters extremely seriously, participating in numerous research cruises. In 1998, Martina published an update of her 1974 paper on South African cephalopods, which more than doubled the number of cephalopod species reported earlier and provided extensive data on distribution and systematics.

In a career spanning more than 30 years, Martina published more than 50 papers and articles on cephalopods, many of which have become standard reference texts. Martina's untimely death, aged just 62, deprived the cephalopod community of one of its long-standing female role models.

### **Acknowledgements**

ALA wishes to acknowledge the enthusiasm with which the cephalopod community (male and female alike) embraced this paper in its embryonic stages. Without the contributions of Paul Rodhouse, Nancy Voss, Joyce Wells, and Dominic Wells, this paper could not have been completed. Mike Sweeney's input to Tables 1 and 2 is very much appreciated. We really appreciate the effort by Angel Guerra to find and scan old photographs.

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## Figure legends

Figure 1. Bibliometric analysis of the papers presented during the CIAC 2012 Symposium. (A) Registrations by gender; (B) authorship of oral presentations by gender; (C) presenters of oral presentations by gender; (D) authorship of oral papers by gender.

Figure 2. Female cephalopod scientists. (A) Jeanne (Jeanette) Villepreux-Power (1794-1871). Detail from original photograph taken by A. E. E. Disdéri in 1861. (B) Julia Arsent'evna Filippova (1934-present). (C) Zulma Judith Ageitos de Castellanos (1922 -2010). (D) Martina Compagno Roeleveld (1943-2006) (left) with María Edith Ré, currently of the National Patagonic Institute in Puerto Madryn, Argentina (right). Photo taken during the 1997 CIAC meeting in Capetown by Angel Guerra. (E) Nancy A. Voss (1929 – present). (F) Katharina

Maria Mangold-Wirz (1922-2003). Photo by Eric Hochberg. (G) Joyce Wells (1930 – present). Photo by Angel Guerra, 1987. (H) Renata Boucher-Rodoni (1942 – present). (I) Eve Boucaud-Camou (1939-present). (J) Marion Nixon (1930 – present). Photo by Angel Guerra, 1992, Aberdeen.

**Table 1:** Cephalopod taxa described by senior women cephalopod researchers

Taxa	Reference	Current Status	Reference
<b>Anne Massy</b>			
<i>pfefferi</i> , <i>Helicocranchia</i>	Massy, 1907: 382	Valid species	see Voss, 1980: 382
<i>profundicola</i> , <i>Polypus</i>	Massy, 1907: 377	= <i>Bathypolypus ergasticus</i> (Fischer & Fischer, 1892)	fide Norman & Hochberg, 2005: 141
<i>normani</i> , <i>Polypus</i>	Massy, 1907: 379	= <i>Muusoctopus januarii</i> (Hoyle, 1885)	fide Gleadall, 2013: 109
<i>umbellata</i> , <i>Cirrotheuthis</i>	Massy, 1909: 4	= <i>Opisthoteuthis massyae</i> (Grimpe, 1920)	fide Villanueva, Collins, Sanchez & Voss, 2002: 966
<i>arabica</i> , <i>Sepia</i>	Massy, 1916: 228	Valid species	see Reid, Jereb & Roper, 2005: 69
<i>brevis</i> , <i>Moschites</i>	Massy, 1916: 158	= <i>Eledone massyae</i> Voss, 1964	fide Voss, 1964: 511
<i>natalensis</i> , <i>Sepia</i>	Massy, 1925: 212	= <i>Sepia simoniana</i> Thiele, 1920	fide Voss, 1962: 247
<i>joubini</i> , <i>Sepia</i>	Massy, 1927: 161	Valid species	see Reid, Jereb & Roper, 2005: 147
<i>robsoni</i> , <i>Rhombosepion</i>	Massy, 1927: 159	= <i>Sepia robsoni</i>	fide Voss, 1962: 248
<b>Grace Pickford</b>			
<i>bimaculoides</i> , <i>Octopus</i>	Pickford & McConnaughey, 1949	Valid species	see Norman & Hochberg, 2005: 133
<i>vincenti</i> , <i>Octopus</i>	Pickford, 1955	= <i>Amphioctopus burryi</i> Voss, 1950	fide Norman & Hochberg, 2005: 144
<b>Zulma de Castellanos</b>			
<i>argentinus</i> , <i>Ommastrephes</i>	Castellanos, 1960: 55	= <i>Illex argentinus</i> (Castellanos, 1960)	fide Roper, Lu & Mangold, 1969: 317
<i>lobensis</i> , <i>Octopus</i>	Castellanos & Menni, 1969: 92	= <i>Octopus tehuelchus</i> d'Orbigny, 1834	fide Norman & Hochberg, 2005: 138
<b>Katharina Mangold</b>			
<i>oxygonius</i> , <i>Illex</i>	Roper, Lu & Mangold, 1969: 299	Valid species	see Roper, Lu & Vecchione, 1998: 415

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**Martina Campagno Roeleveld**

<i>adami, Sepia</i>	Roeleveld, 1972: 224	Valid species	see Khromov, Lu, Guerra, Dong & Boletzky, 1998: 83
<i>angulata, Sepia</i>	Roeleveld, 1972: 242	Valid species	see Khromov, Lu, Guerra, Dong & Boletzky, 1998: 84
<i>faurei, Sepia</i>	Roeleveld, 1972: 251	Valid species	see Khromov, Lu, Guerra, Dong & Boletzky, 1998: 97
<i>pulchra, Sepia</i>	Roeleveld & Liltved, 1985: 2	Valid species	see Reid, 2005: 147
<i>magnificus, Octopus</i>	Villanueva, Sanchez & Compagno Roeleveld, 1992: 39	= <i>Enteroctopus magnificus</i>	fide Hochberg, 1998: 203
<i>Notonykia</i>	Nesis, Roeleveld & Nikitina, 1998: 153	Valid genus	see Roper & Jereb, 2010: 355
<i>africanae, Notonykia</i>	Nesis, Roeleveld & Nikitina, 1998: 154	Valid species	see Nesis, 2000: 274
<i>machelae, Uroteuthis (Photololigo)</i>	Roeleveld & Augustine, 2005: 98	Valid species	See Jereb, Vecchione & Roper, 2010: 110

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**Nancy Voss**

<i>elongata, Calliteuthis</i>	Voss & Voss, 1962: 184	= <i>Histioteuthis reversa</i> (Verrill, 1880)	fide Voss, Nesis & Rodhouse, 1998: 305
<i>corona, Calliteuthis</i>	Voss & Voss, 1962: 191	= <i>Histioteuthis corona corona</i> (Voss & Voss, 1962)	fide Voss, 1969: 773
<i>berryi, Histioteuthis corona</i>	Voss, 1969: 781	Valid subspecies	see Voss, Nesis & Rodhouse, 1998: 339
<i>eltaninae, Histioteuthis</i>	Voss, 1969: 755	Valid species	see Voss, Nesis & Rodhouse, 1998: 313
<i>macrohista, Histioteuthis</i>	Voss, 1969: 845	Valid species	see Voss, Nesis & Rodhouse, 1998: 329
<i>bruuni, Histioteuthis</i>	Voss, 1969: 811	= <i>Histioteuthis meleagroteuthis</i> (Chun, 1910)	fide Voss, Nesis & Rodhouse, 1998: 350
<i>calypso, Opisthoteuthis</i>	Villanueva, Collins, Sanchez & Voss, 2002: 946	Valid species	see Hochberg, Norman & Finn, 2014: 251
<i>hardyi, Opisthoteuthis</i>	Villanueva, Collins, Sanchez &	Valid species	see Hochberg, Norman & Finn,

**Julia Filippova**

<i>akimushkini, Cycloteuthis aspera, Galiteuthis knipovitchi, Moroteuthis Kondakovia longimana, Kondakovia mascarensis, Sepia (Doratosepion) plathyconchalis, Sepia (Sepia)</i>	Filippova, 1968: 119 Filippova, 1972: 400 Filippova, 1972: 392 Filippova, 1972: 392 Filippova, 1972: 395 Filippova & Khromov, 1991: 63 Filippova & Khromov, 1991: 66	Valid species = <i>Galiteuthis glacialis</i> (Chun, 1906) = <i>Filippovia knipovitchi</i> Bolstad, 2010 Valid genus Valid species Valid species Valid species	see Nesis, 1987a: 240 fide Nesis, 1987a: 275 fide Bolstad, 2010: 133 see Roper & Jereb, 2010: 365 see Kubodera, Piatkowski, Okutani & Clarke, 1998: 285 see Reid, Jereb & Roper, 2005: 144 see Reid, Jereb & Roper, 2005: 146
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**Renata Boucher-Rodoni**

<i>subplana, Sepia Microeledone mangoldi, Microeledone Galeoctopus lateralis, Galeoctopus tongaensis, Choneteuthis jumeau, Scaergus nesis, Scaergus tuber, Scaergus Histoctopus discus, Histoctopus</i>	Lu & Boucher-Rodoni, 2001: 185 Norman, Hochberg & Boucher-Rodoni, 2004: 194 Norman, Hochberg & Boucher-Rodoni, 2004: 194 Norman, Boucher-Rodoni & Hochberg, 2004: 247 Norman, Boucher-Rodoni & Hochberg, 2004: 248 Lu & Boucher-Rodoni, 2006: 39 Norman, Hochberg & Boucher-Rodoni, 2005: 325 Norman, Hochberg & Boucher-Rodoni, 2005: 329 Norman, Hochberg & Boucher-Rodoni, 2005: 321 Norman, Boucher-Rodoni & Hochberg, 2009: 325 Norman, Boucher-Rodoni &	Valid species Valid genus Valid species Valid genus Valid species Taxon not yet reviewed Valid species Valid species Valid species Valid genus Valid species	see Reid, Jereb & Roper, 2005: 149 see Norman, Finn & Hochberg, 2014: 149 see Norman, Finn & Hochberg, 2014: 150 see Norman & Hochberg, 2005: 138 see Norman & Hochberg, 2005: 138 see Norman, Finn & Hochberg, 2014: 172 see Norman, Finn & Hochberg, 2014: 172 see Norman, Finn & Hochberg, 2014: 172 see Norman, Finn & Hochberg, 2014: 141 see Norman, Finn & Hochberg,
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<i>zipkasa</i> , <i>Histoctopus</i>	Hochberg, 2009: 326 Norman, Boucher-Rodoni & Hochberg, 2009: 329	Valid species	2014: 143 see Norman, Finn & Hochberg, 2014: 141
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**Table 2.** Cephalopod taxa named in honour of senior women researchers

Taxa	Reference	Current Status	Reference
<b>Anne Massy</b>			
<i>massyae</i> , <i>Tetronychoteuthis</i>	Pfeffer, 1912: 102	= <i>Pholidoteuthis massyae</i>	fide O'Shea, Jackson & Bolstad, 2007: 426
<i>massyae</i> , <i>Cirroteuthopsis</i>	Grimpe, 1920: 233	= <i>Opisthoteuthis massyae</i>	fide Villanueva, Collins, Sanchez & Voss, 2002: 966
<i>massyae</i> , <i>Eledonella</i>	Robson, 1924: 202	=? <i>Bolitaena massyae</i>	fide Robson, 1932: 328
<i>massyae</i> , <i>Eledone</i>	Voss, 1964: 511	Valid species	see Nesis, 1987: 299
<b>Grace Pickford</b>			
<i>Pickfordiateuthis</i>	Voss, 1953: 609	Valid genus	see Brakoniecki, 1996: 10
<i>pickfordi</i> , <i>Doryteuthis</i>	Adam, 1954: 149	= <i>Uroteuthis pickfordi</i> ; valid species; generic affinity unresolved	see Vecchione, Brakoniecki, Natsukari & Hanlon, 1998: 221
<b>Katharina Mangold</b>			
<i>mangoldi</i> , <i>Microeledone</i>	Norman, Boucher-Rodoni & Hochberg, 2004: 194	Valid species	see Norman, Finn & Hochberg, 2014: 150
<i>mangoldae</i> , <i>Asperoteuthis</i>	Young, Vecchione & Roper, 2007: 354	Not yet reviewed	
<b>Julia Filippova</b>			
<i>filippovae</i> , <i>Todarodes</i>	Adam, 1975: 3	Valid species	see Dunning & Wormuth, 1998: 387
<i>Filippovia</i>	Bolstad, 2010: 133	Not yet reviewed	

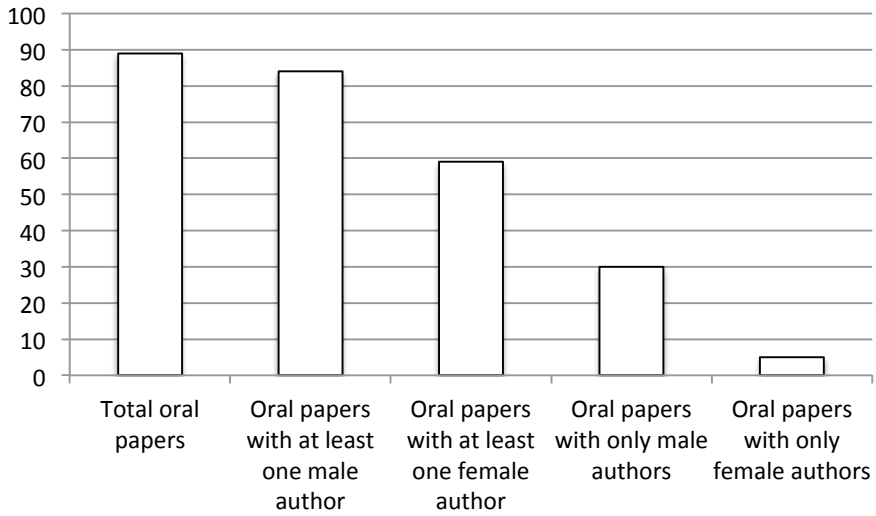
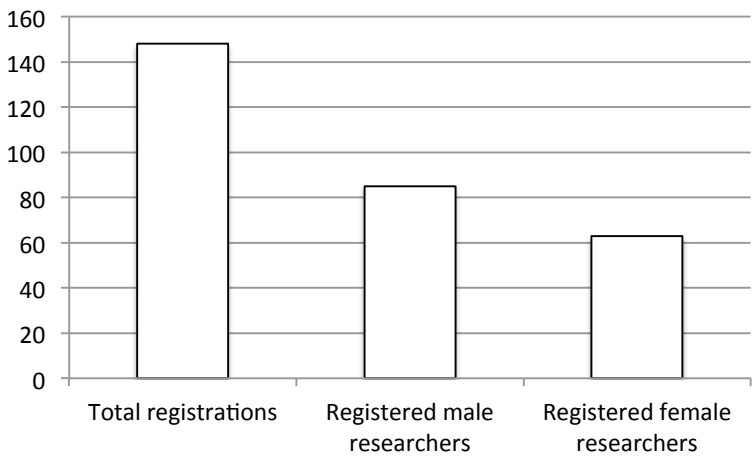
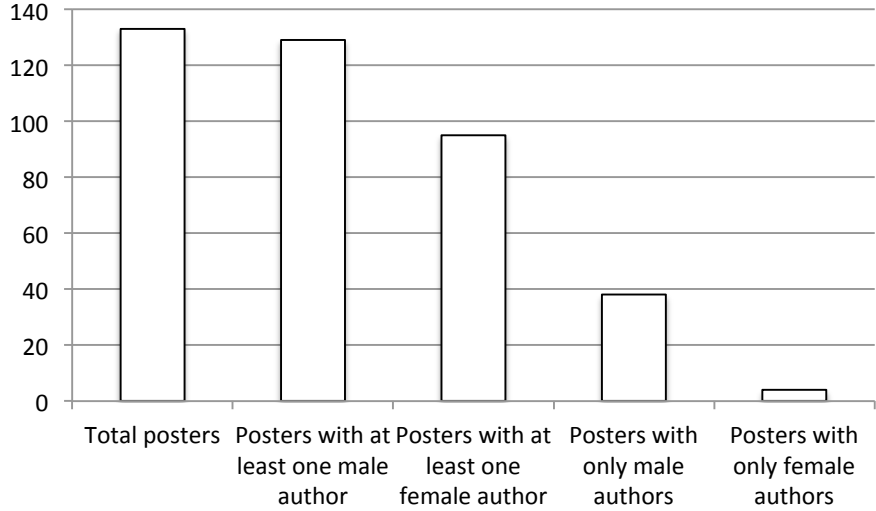
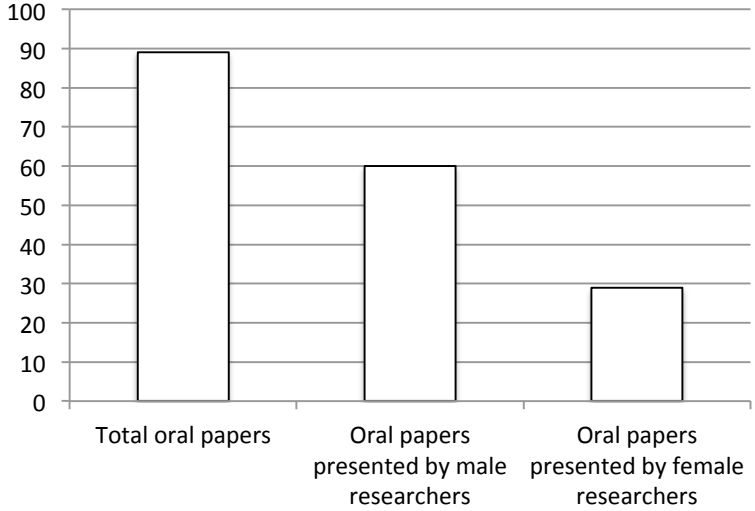


Figure 1







## **The role of female cephalopod researchers: past and present : Supplementary Information**

### **Introduction**

The majority of these bibliographies were compiled from three major sources, supplemented with other works from fairly exhaustive internet searches and searches of relevant cephalopod book bibliographies. The three major sources are Web of Science (wok.mimas.ac.uk), the Cephalopod Bibliography contained within the Smithsonian Institution Research Information System (www.siris.si.edu), and the newly resurrected CephBase (cephbase.eol.org). Bibliographies of Julia Filippova and Zulma de Castellanos were compiled separately and from other other sources by Chingis Nigmatullin and Néstor Cazzaniga respectively. Nancy Voss and Marion Nixon provided complete bibliographies of their work.

Where the article was in a language other than English, we have, where possible, provided the original title and a translation.

Although we have attempted consistency of citation style, old manuscripts do not always lend themselves easily to this, and we have preferred to maximize the information rather than follow strict style guidelines. Where additional information was available (e.g., brief summary of article), we have provided that, with the aim of maximizing the usefulness of the bibliographies.

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### **Anna McClean Bidder**

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### ***Zulma Judith Ageitos de Castellanos***

Castellanos ZJA de. 1947. Estructura ganglionar en moluscos argentinos. [Ganglionic structure of Argentinean molluscs.] PhD Thesis. La Plata: Universidad Nacional de La Plata. Facultad de Ciencias Naturales y Museo. 70 p.

Published in full in *Revista del Museo de la Ciudad Eva Perón, Nueva Serie, Sección Zoología* in 1953.

Castellanos ZJA de. 1948. Estudio anatómico sobre *Mesodesma mactroides* Desh. (almeja amarilla). [Anatomical study on *Mesodesma mactroides* (yellow clam).]

Publicaciones Técnicas DAGI 5(1): 1-49. La Plata: Dirección de Agricultura, Ganadería e Industria de la Provincia de Buenos Aires.

A descriptive work on a then remarkable commercial resource at a regional scale. After a brief account on taxonomy, extensively describes the external morphology of the animal, shells (including measurements and a brief discussion on growth lines); anatomy and histology of mantle, siphons, foot, muscular system, buccal palps, digestive system (oesophagus, stomach, crystalline style, gut, and digestive gland); nervous system (ganglia, nerves and sense organs); gills; circulatory, genital and excretory systems. With 60 text-figures. Current taxonomic affiliation: Bivalvia, Mesodesmatidae Gray, 1840, *Amarilladesma mactroides* (Reeve, 1854).

Castellanos ZJA de. 1948. Sobre seis especies de polioplacóforos argentinos. [On six species of Argentinean Polyplacophora.] *Notas del Museo de La Plata, Sección Zoología*, 13(110): 192-202, 11 plates. La Plata.

Synonymy, distribution, and description of plates, mantle, aesthetes and radula of *Tonicia lebruni* Rochebrune, 1884 (Chitonidae), *Nuttalochiton* [sic] *martiali* (Rochebrune, 1889) (*erratum pro Nuttalochiton* Plate, 1899) (Lepidochitonidae; currently: Mopaliidae), *Chaetopleura tehuelcha* d'Orbigny, 1841 and *C. isabellei* (d'Orbigny, 1841) (Ischnochitonidae; currently: Chaetopleuridae), *Plaxiphora frigida* (Rochebrune, 1889), and *P. aurata* Spalowsky, 1795 (Mopaliidae). With 50 drawings of plates, mantle elements, aesthetes and radulae, a map of the sample localities, and 14 photographs of aesthetes and whole animals.

Alonso, AS, Castellanos ZJA de. 1949. Algunos datos sobre la alimentación de las ampullarias. [Some data on the feeding of apple snails.] *Notas del Museo de La Plata, Sección Zoología*, 14(115): 31-34. La Plata.

*Ampullaria insularum* d'Orbigny, 1835 (now in *Pomacea* Perry, 1810; Gastropoda, Ampullariidae) is able to catch and eat dead and dying fish. A female specimen also devoured part of its own egg layer.

Castellanos ZJA de. 1951. Polioplacóforos del Museo Argentino de Ciencias Naturales. [Polyplacophora of the Argentinean Museum of Natural Sciences, Buenos Aires.] *Comunicaciones del Instituto Nacional de Investigación de las Ciencias Naturales y Museo Argentino de Ciencias Naturales Bernardino Rivadavia, Zoología*, 1(15): 3-31. Buenos Aires.

Identification of 16 species of South American Polyplacophora, with short descriptions, Museum collection numbers, geographic distribution, and 54 drawings of plates, mantle spines, aesthetes and radulae.

Castellanos ZJA de. 1953. Estructura ganglionar en moluscos argentinos. [Ganglionic structure of Argentinean molluscs.] *Revista del Museo de la Ciudad Eva Perón, Nueva Serie, Sección Zoología*, 6: 257-275, 12 plates. Eva Perón (= La Plata).

Full text of her doctoral dissertation (1947: see above). Description of the general morphology of the nervous system of *Pomacea insularum* (d'Orbigny, 1835) (Gastropoda, Ampullariidae) and *Anodontites trapezialis* [sic] (Lamarck, 1819) (*erratum pro trapesialis*; Bivalvia, Mycetopodidae) and a detailed study on the histology of the nervous ganglia using six different staining techniques (neurilemma and annexed cells, ganglionic cells, mitochondria, pigmentation, Golgi apparatus, plexiform structures, neurofibrils, neuroglia and microglia). With 14 drawings and 16 micrographs of histological slides for *P. insularum*.

Castellanos ZJA de. 1953. Los quitones del Museo de la ciudad Eva Perón. [The chitons of the Eva Perón City Museum.] *Notas del Museo de la Ciudad Eva Perón, Sección Zoología*, 16(138): 173-183, 6 plates. Eva Perón (= La Plata).

A list of 14 species of Polyplacophora in eight genera, with an identification key. Synonymy, distribution, and description of plates, mantle elements, aesthetes and radula of *Chiton subfuscus* Sowerby, 1832, *Chiton granosus* Fremby, 1827,

*Chaetopleura brucei* Iredale, 1912 and *Chaetopleura peruviana* (Lamarck, 1819).  
With 20 text-figures and 27 drawings of whole animals, plates, aesthetes and  
radulae in the plates.

Ringuelet RA, Castellanos ZJA de. ca 1954. *Apuntes de Zoología Invertebrados*. [Class  
notes on Invertebrate Zoology.] Eva Perón (= La Plata): Universidad Nacional de  
Eva Perón, Museo de Ciencias Naturales. 119 p. [mimeo.].

Ringuelet RA, Castellanos ZJA de. ca 1954. *Guía de trabajos prácticos. Cátedra de Zoología  
Invertebrados*. [Guide to practical classes. Chair in Invertebrate Zoology.] – Eva  
Perón (= La Plata): Universidad Nacional de Eva Perón, Museo de Ciencias  
Naturales. 62 p. [mimeo.].

Castellanos ZJA de. 1956. Catálogo de los polioplacóforos argentinos y de aguas vecinas al  
Estrecho de Magallanes. [Catalogue of the Polyplacophora from Argentina and  
waters surrounding the Strait of Magellan.] *Revista del Museo de La Plata, Sección  
Zoología*, 6: 465-486, 9 plates. La Plata.

Synonymy, distribution and some remarks on 45 nominal species (21 of which were  
personally studied by the author) in 15 genera and six families. With 36 drawings of  
dorsal views of whole animals.

Castellanos ZJA de. 1957. Contribución al conocimiento de las especies de ostras del  
litoral argentino (*Ostrea puelchana* y *O. spreta*). [Contribution to the knowledge of  
the Argentinean littoral oyster species (*Ostrea puelchana* and *O. spreta*).] Buenos  
Aires: Ministerio de Agricultura y Ganadería de la Nación, Departamento de  
Investigaciones Pesqueras. 40 p. + 10 plates.

Taxonomy of *Ostrea puelchana* d'Orbigny, 1842 and *O. spreta* d'Orbigny, 1846; shell  
descriptions; anatomy and histology of mantle, gills, digestive, genital, muscular,  
circulatory, nervous and excretory systems; sexual cycle and description of the first  
embryological stages, free-swimming larvae and settled spat; some ecological data,  
and an account on culture experiments.

Castellanos ZJA de. 1957. Los mitílidos argentinos. [The Argentinean mussels.] Buenos  
Aires: Ministerio de Agricultura y Ganadería de la Nación, Departamento de  
Investigaciones Pesqueras. 12 p. + 4 plates.

Shell description, synonymy, distribution and identification key for eleven species  
in the genera *Mytilus* Linnaeus, 1758, *Aulacomya* Mörch, 1853, *Brachyodontes* [sic]  
(*erratum pro Brachidontes* Swainson, 1840), *Chloromya* Mörch, 1853, *Lithophaga*  
Röding, 1798, *Modiolaria* Beck, 1838, and *Hormomya* Mörch, 1853 (Bivalvia,  
Mytilidae).

Castellanos ZJA de. 1959. Algunas consideraciones sobre el género *Diplodon* (Moluscos,  
Pelecípodos). [Some thoughts on the genus *Diplodon*.] *Notas del Museo de La Plata,  
Sección Zoología*, 19(182): 243-246, 1 plate. La Plata.

A study on the nominal species of the genus *Diplodon* Spix, 1827 cited for Patagonia,  
concluding that *Diplodon patagonicus* (d'Orbigny, 1835) is the only identifiable  
species in the area (with synonymy and photographs). First record of *D. enno*  
Ortmann, 1921 in Argentina added. Current taxonomic affiliation: Bivalvia, Hyriidae  
Swainson, 1840.

Castellanos ZJA de. 1959. La presencia de *Nuttallochiton* [sic] *hyadesi* (Roch.) en la fauna  
antártica (Moll.: polioplacóforos). [The presence of *Nuttallochiton hyadesi* in the  
Antarctic fauna.] *Contribución del Instituto Antártico Argentino*, 8: 1-9. Buenos  
Aires.

Short description of one specimen of *Nuttallochiton hyadesi* (Rochebrune, 1889)  
from the Weddel Sea (64° S 57° W), with seven drawings of plates and radula.

Castellanos ZJA de. 1960. Las especies del género *Diplodon* en la Argentina. [The species of the genus *Diplodon* in Argentina.] – In: Congreso Sudamericano de Zoología, 1. La Plata, 12-24 de octubre de 1959. *Actas y Trabajos*, 2: 85-94.

Synonymies, distribution data, comments and 18 shell photographs of 18 species-group taxa (14 species + four subspecies) in *Diplodon* Spix, 1827, grouped in six aggregates headed by *D. hyleus* [sic] d'Orbigny, 1835 (*erratum pro hylaeus*; now in *Rhipidodonta* Mörch, 1853), *D. chilensis* Gray, 1852, *D. parallelipedon* (Lea, 1834), *D. charruanus* d'Orbigny, 1835 (now in *Rhipidodonta* Mörch, 1853), *D. delodontus* Lamarck, 1819, and *D. ellipticus* (Spix, 1827). A summary on their life cycle strategy, with or without a parasitic phase on fish. Current taxonomic affiliation: Bivalvia, Hyriidae Swainson, 1840.

Castellanos ZJA de. 1960. Almejas nacaríferas de la República Argentina. Género *Diplodon* (Moll. Mutélidos). [Pearly mussels from the Argentine Republic. Genus *Diplodon*.] Buenos Aires: Secretaría de Estado de Agricultura y Ganadería de la Nación, Dirección General de Pesca y Conservación de la Fauna, *Publicación Miscelánea*, 421: 1-40.

Diagnosis of the genus *Diplodon* Spix, 1827, divided into seven species groups based on valve morphology. Description of the shells of 15 species, two of which include two subspecies each. The shells are graphically ordered in series of gradual change from elongated to rounded and subquadrate forms. With 6 plates including 40 photographs of shells. Current taxonomic affiliation: Bivalvia, Hyriidae Swainson, 1840.

Castellanos ZJA de. 1960. Fundamentos biológicos para asegurar la explotación del mejillón comestible. [Biological basis for the safe exploitation of the edible mussel.] *Physis*, 6(20): 209-210. Buenos Aires.

Comments on distribution, sexual cycle and growth of *Mytilus edulis platensis* d'Orbigny, 1842 (Bivalvia, Mytilidae), and recommendations for its commercial extraction and processing.

Castellanos ZJA de. 1960. Una microcomunidad antártica. [An Antarctic microcommunity.] *Contribución del Instituto Antártico Argentino* 50: 1-11. Buenos Aires.

A report on the association of the gastropods *Lissarca miliaris* (Philippi, 1845) (Philobryidae), *Cymium* [sic] *subquadratum* Pelseneer, 1903 (*erratum pro Cyamium*; Cyamiidae) and *Philippiella olstadi* Soot-Ryen, 1951 (Philobryidae) with *Laevilittorina* [sic] sp. (*erratum pro Laevilittorina*; Littorinidae), *Charcotia* sp. (Charcotiidae), and some amphipods, isopods and polychaets on red and brown algae from Antarctica.

Castellanos ZJA de. 1960. Sobre un caso de inquilinismo temporario. [On a case of temporary inquilinism.] *Neotropica*, 6(19): 12-13. La Plata.

A short report on the capture of a fish, *Percophis brasiliensis* Quoy & Gaimard, 1825 (Perciformes: Percophidae), partially stuffed inside the pallial cavity of a *Loligo* squid.

Castellanos ZJA de. 1960. Una nueva especie de calamar argentino: *Ommastrephes argentinus* sp. nov. (Mollusca, Cephalopoda). [A new species of Argentinean squid: *Ommastrephes argentinus* sp. nov.] *Neotropica*, 6(20): 55-58. La Plata.

Previously identified as *Ommastrephes bartrami* (Lesueur, 1821) in the literature, the Argentinean commercial squid is recognized as a distinct species. Description, measurements and comparison to *O. bartrami*. Current taxonomic affiliation: Ommastrephidae Steenstrup, 1857, *Illex* Steenstrup, 1880.

Castellanos ZJA de. 1961. Estados larvales de Trematoda Bucephalidae en el mejillón (*Mytilus platensis*). [Larval stages of Trematoda Bucephalidae in the mussel



(*Mytilus platensis*).] *Notas del Museo de La Plata, Sección Zoología*, 20(188): 21-24. La Plata.

Description and drawings of sporocysts and cercariae tentatively assigned to the genus *Bucephalus* Baer, 1826 (Digenea: Bucephalidae).

Castellanos ZJA de. 1962. Variaciones en la charnela de *Glycymeris longior* Sow. [Hinge variation in *Glycymeris longior*.] *Neotropica*, 8(27): 117-119. La Plata.

Description and outlines of the number increase and shape change of the hinge teeth in shells 7 to 35 mm high of *Glycymeris longior* (Sowerby I, 1833) (Bivalvia: Glycymerididae Newton, 1922).

Castellanos ZJA de. 1962. Genitales de *Ommastrephes argentinus* (Mollusca, Cephalopoda). [Genitalia of *Ommastrephes argentinus*.] *Neotropica*, 8(27): 117-119. La Plata.

Description and general drawings of the female and male reproductive system, and spermatophore of *Ommastrephes argentinus* Castellanos, 1960. Current taxonomic affiliation: Cephalopoda, Ommastrephidae Steenstrup, 1857, *Illex* Steenstrup, 1880.

Castellanos ZJA de. 1962. Contribución al estudio biológico del *Mytilus platensis*. [Contribution to the biological study of *Mytilus platensis*.] – Buenos Aires: Secretaría de Estado de Agricultura y Ganadería de la Nación, Investigaciones Pesqueras. Publicación Miscelánea. 29 p.

**Not seen.** Current taxonomic affiliation: Bivalvia, Mytilidae Rafinesque, 1815, *Mytilus edulis platensis* d'Orbigny, 1842.

Castellanos ZJA de. 1963. Nota sobre *Malletia subaequalis* (Sow.) (Mol. Pelecypoda). [A note on *Malletia subaequalis*.] *Notas del Museo de La Plata, Sección Zoología*, 20(202): 159-161. La Plata.

Redescription of shells of *Malletia subaequalis* (Sowerby II, 1870) (Bivalvia, Malletiidae) from Puerto Deseado, Argentina, with notes on the variation of size, form and hinge teeth. One plate with drawings of the valves and hinge.

Castellanos ZJA de, Luna Pérez JC. 1963. Algunos aspectos bioecológicos de la zona intercotidal de Cabo Primavera (Costa de Danco, Península Antártica). [Some bioecological aspects of the intertidal zone of Cabo Primavera (Danco Coast, Antarctic Peninsula).] *Contribución del Instituto Antártico Argentino*, 72: 1-24. Buenos Aires.

A mostly descriptive study of tide pools with two maps, photographs and data of the environment. The dominant species are *Pontogeneia antarctica* (Amphipoda), *Patinigera polaris* (Gastropoda, now in genus *Nacella* Schumacher, 1817), and two species of *Procerodes* (Tricladida). The samples included five other amphipod species, seven gastropod species, several polychaetes and some nemerteans, bivalves, isopods, holothurians, among other invertebrates.

Castellanos ZJA de. 1963. Adiciones a la malacofauna antártica. [Additions to the Antarctic Molluscan fauna.] *Contribución del Instituto Antártico Argentino*, 80: 1-11. Buenos Aires.

Description of the valves of *Cumingia antarctica* sp. nov. (Bivalvia: Semelidae) and redescription of the valves of *Gomphina foveolata* (Cooper & Preston, 1910) (Bivalvia: Veneridae).

Castellanos ZJA de. 1964. Contribución al conocimiento biológico del calamar argentino *Illex illecebrosus argentinus*. [Contribution to the biological knowledge of the Argentinean squid *Illex illecebrosus argentinus*.] *Boletín del Instituto de Biología Marina*, 8: 1-38. Mar del Plata.

Account on taxonomy and zoogeography, suggesting the presence of two subspecies to the north and south of 42° S. Morphological description; a study of size

frequency, body measurement ratios, and some size/weight data. A gonadal analysis suggests maximum spawning in December (early summer). Squids 100 mm long already show sexual differences, but sexual maturity occurs at 240 mm. An account of the hydrological conditions of the habitat, co-occurring species, and some data on food and feeding. Analysis of the annual fluctuations of commercial fishing, which is subsidiary to fishing for hake. Current taxonomic affiliation: Cephalopoda, Ommastrephidae Steenstrup, 1857, *Illex argentinus* (Castellanos, 1960).

Castellanos ZJA de. 1964. Nota sobre *Sphenia hatcheri* Pilsbry (Moll. Pelecypoda). [A note on *Sphenia hatcheri*.] *Revista del Museo de La Plata, Sección Zoología*, 8(62): 173-175, 1 plate. La Plata.

Redescription, drawings and photographs of the little known species *Sphenia hatcheri* Pilsbry, 1899 (Bivalvia: Myidae), collected at various localities in Patagonia.

Castellanos ZJA de, Fernández D. 1964. Nueva distribución para *Buccinanops duartei* Klapp. y *Olivancillaria teaguei* Klapp. [New distribution for *Buccinanops duartei* and *Olivancillaria teaguei*.] *Neotropica*, 10(33): 97-98. La Plata.

*Buccinanops duartei* Klappenbach, 1961 (Gastropoda, Nassariidae) and *Olivancillaria teaguei* Klappenbach, 1964 (Gastropoda, Olividae) were originally described from Uruguay and Brazil. They are also found in Argentina.

Castellanos ZJA de. 1965. Adiciones a la pantopodofauna argentina. [Additions to the Argentinean fauna of Pantopoda.] *Physis*, 25(69): 13-17. Buenos Aires.

First record, description and discussion of three species of Pycnogonida for the Buenos Aires province coasts: *Endeis spinosa* (Montagu, 1808) (Endeidae), *Tanystylum orbiculare* Wilson, 1878 (Ammonotheidae) and *Anoplodactylus stictus* Marcus, 1940 (Phoxichilidiidae).

Castellanos ZJA de. 1965. Contribución al estudio biológico de almejas nacaríferas del Río de la Plata. [Contribution to the biological knowledge of the pearly mussels of the River Plate.] *Revista del Museo de La Plata, Sección Zoología*, 8(60): 99-147. La Plata.

Description of the River Plate region and a list of 14 species in the genus *Diplodon* Spix, 1827 (Hyriidae) and three species of *Anodontites* Bruguière, 1792 (Mycetopodidae) found or deemed to be present in the area, with a comment on the type and quality of the nacre they produce. The commonest species was *Diplodon variabilis* (Maton, 1811) (now in *Rhipidodonta* Mörch, 1853), on which the biological study is focused. Data on the habitat, with tables of physicochemical analysis of water, particle size and mineralogical analysis of the sediment. An account of field and aquarium behaviour, and data on accompanying fauna (illustrated with 13 photographs), parasites and commensals (drawings of two unidentified acari, and sporocysts and cercariae tentatively identified as *Phyllodistomum* sp. [Digenea: Gorgoderidae]). Gonadal analysis along one year; record of glochidium larvae and spawning. Description and drawings of the first embryonic stages, glochidia and marsupium; size variation of juveniles; shell size composition of the population, and length/weight graphs, with a final analysis of the commercial value of the species.

Castellanos ZJA de, Fernández D. 1965. Aportes a los Pyrenidae de la Argentina (Moll. Gastropoda). [Contributions to the Pyrenidae from Argentina.] *Neotropica*, 11(35): 55-58. La Plata.

New localities and short descriptions of the shells of four species in the genera *Pyrene* Röding, 1798 and *Aesopus metcalfei* (Reeve, 1860). Description of *Pyrene rubra tuyuensis* ssp. nov. (incorrect original spelling "tuyuense" mandatorily

emended for gender agreement). Identification key for the Argentinean species.  
Current taxonomic affiliation: Gastropoda, Columbelloidea Swainson, 1840.

Castellanos ZJA de, Fernández D. 1965. Sobre la presencia de *Donax hanleyanus* en la costa argentina. [On the presence of *Donax hanleyanus* in the Argentinean coast.] *Neotropica*, 11(35): 58. La Plata.

A Brazilian wedge clam, *Donax hanleyanus* Philippi, 1847 (Bivalvia, Donacidae), found in Argentinean sandy beaches.

Castellanos ZJA de, Fernández D. 1965. Consideraciones sobre las especies del género *Olivella* y una nueva especie para la Argentina. [Consideration on the species in the genus *Olivella* and a new species from Argentina.] *Neotropica*, 11(36): 101-104. La Plata.

New localities for *Olivella tehuelchana* d'Orbigny, 1839 and *O. puelchana* [sic] [erratum pro *O. puelcha* (Duclos, 1840)]. Description of shells and radulae of *O. plata* (Ihering, 1909) and *O. santacruzensis* sp. nov. Identification key for the Argentinean species. Current taxonomic affiliation: Gastropoda: Olivelloidea Troschel, 1869.

Castellanos ZJA de. 1966. Sobre *Loripes cryptellus* (d'Orb.) y su presencia en Argentina (Moll. Pelecyp. ). [On *Loripes cryptellus* and its presence in Argentina.] *Neotropica*, 12(37): 6. La Plata.

First record for Argentina (northern Patagonia) of *Loripes cryptellus* (d'Orbigny, 1846), originally described with genus *Lucinida* d'Orbigny, 1846, from Pernambuco, Brazil. Current taxonomic affiliation: Bivalvia, Lucinidae Fleming, 1828, *Loripes brasiliensis* (d'Orbigny, 1842).

Castellanos ZJA de. 1966. *Thracia rushi* y su nueva posición genérica. [*Thracia rushi* and its new generic position.] *Neotropica*, 12(39): 86. La Plata.

*Thracia rushi* Pilsbry, 1897 transferred to genus *Bushia* Dall, 1886. Current taxonomic affiliation: Bivalvia, Thraciidae Stoliczka, 1870, *Asthenothaerus rushii* (Pilsbry, 1897).

Castellanos ZJA de. 1967. Contribución al estudio biológico de *Loligo brasiliensis* Bl. [Contribution to the biological knowledge of *Loligo brasiliensis*.] *Boletín del Instituto de Biología Marina*, 14: 5-28. Mar del Plata.

Account on taxonomy and zoogeography of *Loligo brasiliensis* Blainville, 1823; morphological description; a study of size frequency, body measurement ratios, size/weight analysis, sexual cycle, environmental conditions, biotic associations, and commercial fishing data. Current taxonomic affiliation: Cephalopoda, Loliginidae Lesueur, 1821, *Doryteuthis sanpaulensis* (Brakoniecki, 1984).

Castellanos ZJA de, Fernández de Deambrosi D. 1967. Nuevos aportes a los Pyrenidae de Argentina (Moll. Gastropoda). [New contributions to the Pyrenidae from Argentina.] *Neotropica*, 13(41): 49-52. La Plata.

Description of shell and radula of *Pyrene bonariensis* sp. nov. (incorrect original spelling "*bonariense*" mandatorily emended for gender agreement), and shell drawings of *Aesopus metcalfei* Reeve, 1860. Current taxonomic affiliation: Gastropoda, Columbelloidea Swainson, 1840.

Castellanos ZJA de. 1967. Rehabilitación del género *Martialia* Roch. et Mab., 1887 (Moll. Cephalopoda). [Reinstatement of genus *Martialia*.] *Neotropica*, 13(42): 121-124. La Plata.

Morphological arguments supporting the validity of the genus *Martialia* Rochebrune & Mabille, 1887 [sic] (erratum pro 1889) (Cephalopoda, Ommastrephidae) as different from *Ommastrephes* d'Orbigny, 1835, *Dosidicus* Steenstrup, 1857, and *Stenoteuthis* [sic] (erratum pro *Sthenoteuthis* Verrill, 1880).

Redescription of *Martialia hyadesi* Rochebrune & Mabile, 1891 [sic] (*erratum pro* 1889).

Castellanos ZJA de, Menni RC. 1967. La presencia de *Ornithoteuthis antillarum* en aguas uruguayas. [The presence of *Ornithoteuthis antillarum* in Uruguayan waters.] *Neotropica*, 13(42): 131-134. La Plata.

Report on two male *Ornithoteuthis antillarum* Adam, 1957 (Cephalopoda, Ommastrephidae) captured at 33° 52' S, 51° 02' W, 800 m deep. Description of suckers and radula and a comparative table of measurements. The depth of this catch is noticed as not consistent with the flying habits of such kind of squids.

Castellanos ZJA de. 1968. Aclaraciones sobre las ostras argentinas (Pelec. Ostreidae). [Explanation on the Argentinean oysters.] *Neotropica*, 14(45): 131-132. La Plata.

A strong criticism to Ranson (1967: *Annales de l'Institut Océanographique*, 45(2): 189-191) and ratification of the names of the commonest species of *Ostrea* Linnaeus, 1758 (*Bivalvia*, Ostreidae) in Argentina.

Castellanos ZJA de, Morris M, Corognati AM, Cela AM. 1968. Estado poblacional de *Loligo brasiliensis* en enero de 1967. [Population status of *Loligo brasiliensis* in January 1967.] *Notas de la Comisión de Investigaciones Científicas de la Provincia de Buenos Aires*, 5(9): 1-31. La Plata.

The results of a single sampling period of *Loligo brasiliensis* Blainville, 1823 are presented on tables of Fulton's condition factor K for different size intervals, sex ratio, and morphometric proportions. Description of young specimens 8 to 12 mm long, with four drawings. Current taxonomic affiliation: Cephalopoda, Loliginidae Lesueur, 1821, *Doryteuthis sanpaulensis* (Brakoniecki, 1984).

Castellanos ZJA de, Menni, RC. 1968. Los cefalópodos de la expedición "Walther Herwig". [The cephalopods of the "Walther Herwig" expedition.] *Notas de la Comisión de Investigaciones Científicas de la Provincia de Buenos Aires*, 6(2): 1-31. La Plata.

Synonymy, morphometric data and geographic distribution of the Decapodiformes *Illex illecebrosus argentinus* [now: *Illex argentinus* (Castellanos, 1960).], *Martialia hyadesi* Rochebrune & Mabile, 1889, *Ornithoteuthis antillarum* Adam, 1957, *Loligo brasiliensis* [now: *Doryteuthis sanpaulensis* (Brakoniecki, 1984).], and *Loligo gahi* [now: *Doryteuthis gahi* (d'Orbigny, 1835).]; and the Octopodiformes *Pteroctopus tetracirrus* (Delle Chiaje, 1830), *Tetracheledone spinicirrus* [sic] Voss, 1955 (*erratum pro: spinicirrus*), *Benthooctopus januarii* (Hoyle, 1885), and *Benthooctopus* spp.

Castellanos ZJA de. 1969. El género *Vitrinella* Adams: Nuevo registro para el litoral bonaerense. [The genus *Vitrinella* Adams, 1850: A new record for the littoral of the province of Buenos Aires.] *Neotropica*, 15(48): 141-142. La Plata.

First record of the family Vitrinellidae and *Vitrinella* Adams, 1850 in Argentina. The species was tentatively identified as *V. agulhaensis* Thiele, 1925, although shell measures do not match those of the original description. Current taxonomic affiliation: Gastropoda, Tornidae Sacco, 1896.

Castellanos ZJA de, Gluzman de Pascar C. 1969. Nuevas cercarias en *Diplodon variabilis*. [New cercariae in *Diplodon variabilis*.] *Neotropica*, 15(46): 43-48. La Plata.

Description and drawings of *Cercaria collaris* sp. nov. and cercariae of *Bucephalus* sp. (Trematoda: Bucephalidae), collected from *Diplodon variabilis* (Maton, 1811). Current taxonomic affiliation of the host: *Bivalvia*, Hyriidae Swainson, 1840, *Rhipidodonta variabilis* (Maton, 1811).

Castellanos ZJA de, Menni RC. 1969. Sobre dos pulpos costeros de la Argentina. [On two coastal octopuses from Argentina.] *Neotropica*, 15(47): 89-94. La Plata.

Redescription of *Octopus tehuetchus* d'Orbigny, 1834 and description of *O. lobensis* sp. nov. (measurements, hectocotylus, radula, and genitalia).

Castellanos ZJA de, Menni RC. 1969. Nota preliminar sobre la distribución de los cefalópodos del Atlántico Sudoccidental. Lista de especies, incluyendo las del Sector Antártico. [A preliminary note on the distribution of the cephalopods of the Southwestern Atlantic. Species list including those from the Antarctic Sector.] – *Anales de la Sociedad Científica Argentina*, 188 (5-6): 67-83. Buenos Aires. [Reprinted 1969 in: *Anales de la Comisión de Investigaciones Científicas de la Provincia de Buenos Aires, Nueva Serie*, 1(2): 1-10. La Plata.]

Comments on the distribution of cephalopods, with two maps of the areas inhabited by 15 species. A list, with type localities and known distribution of 24 species in 13 genera of Octopodida, and 17 species in 14 genera of Decapoda (Sepioida and Teuthida).

Castellanos ZJA de. 1970. Nuevas acotaciones sobre pulpos costeros. [New remarks on coastal octopuses.] – *Anales de la Sociedad Científica Argentina*, 189(1-2): 1-10. Buenos Aires. [Reprinted 1970 in: *Anales de la Comisión de Investigaciones Científicas de la Provincia de Buenos Aires, Nueva Serie*, 2(1): 1-10.]

Description of sucker distribution, chromatophores, genitalia, spermatophores, eggs and juveniles that support, in the view of the authors, the specific discrimination between *Octopus tehuetchus* d'Orbigny, 1834 and *O. lobensis* Castellanos & Menni, 1969.

Castellanos ZJA de. 1970. Adiciones al género *Crassinella* Guppy, 1874. [Additions to the genus *Crassinella*.] – *Anales de la Sociedad Científica Argentina*, 190(5-6): 175-181. Buenos Aires. [Reprinted in 1972 by the Comisión de Investigaciones Científicas de la Provincia de Buenos Aires.]

Discussion and redescription of the genus, and description of the shells of *Crassinella maldonadoensis* Pilsbry, 1897 and *C. marplatensis* sp. nov. (Bivalvia, Crassatellidae).

Castellanos ZJA de. 1970. Reubicación de algunas especies de Volutidae del Mar Argentino. [Relocation of some species of Volutidae from the Argentinean Sea.] *Neotropica*, 16(49): 1-4. La Plata.

Radular description and shell photographs of four species to ascertain their generic position: *Adelomedon* [sic] *paradoxa* Lahille, 1895 (*erratum pro Adelomelon*), *A. ferrussacii* [sic] Donovan, 1824 (*erratum pro ferrussacii*), *Odontocymbiola tuberculata* Swainson, 1821, and *O. subnodosa* (Leach, 1814) (Gastropoda, Volutidae).

Castellanos ZJA de. 1970. Un nuevo opisthobranquio para aguas argentinas. [A new opisthobranch for Argentinean waters.] *Neotropica*, 16(50): 69-70. La Plata.

Synonymy, distribution, description, and drawings of shells of *Volvula oxytata* Bush, 1885 (Gastropoda, Retusidae) from Mar del Plata, Argentina.

Castellanos ZJA de, Fernández D. 1970. Adiciones al género *Pyrene* (Bolten Röding). [Additions to the genus *Pyrene*.] *Neotropica*, 16(50): 70-72. La Plata.

Descriptions and drawings of the opercula and radulae of five species in the genus *Pyrene* Röding, 1798: *P. moleculina* (Duclos, 1840), *P. rubra* (Martens, 1881) (both now in genus *Mitrella* Risso, 1826); *P. bonariensis* Castellanos & Deambrosi, 1967 (now in genus *Astyris* Adams & Adams, 1853); *P. isabellei* (d'Orbigny, 1839) and *P. paessleri* Strebel, 1905 (the latter two, now in *Anachis* Adams & Adams, 1853). Current taxonomic affiliation: Gastropoda, Columbellidae Swainson, 1840.

Castellanos ZJA de. 1970 ["1967"]. Catálogo de los moluscos marinos bonaerenses (con descripciones, claves e ilustraciones). [Catalogue of the marine molluscs of the province of Buenos Aires (with descriptions, keys and illustrations).] *Anales de la*

*Comisión de Investigaciones Científicas de la Provincia de Buenos Aires*, 8: 9-365. La Plata.

Synonymy, distribution, habitat, description, and drawings of 286 species in two genera of Polyplacophora, 65 genera of Gastropoda, 11 of Cephalopoda, two of Scaphopoda and 71 of Bivalvia. This remains a major reference for the molluscan fauna of the Argentinean biogeographic province, though taxonomically outdated after more than 40 years since its publication.

Castellanos ZJA de. 1971. Fáunula de moluscos del complejo bentónico de Mar del Plata. [Small mollusc fauna of the benthic complex at Mar del Plata.] *Revista del Museo de La Plata, Sección Zoología*, 11(95): 37-57. La Plata.

New records, synonymies, distribution data and comments on 24 species of Bivalvia, 25 species of Gastropoda, and one species of Scaphopoda, with detailed information on sampling localities.

Castellanos ZJA de. 1971. Los *Chlamys* más comunes del Mar Argentino. [The most common *Chlamys* from the Argentinean Sea.] *Neotropica*, 17(53): 55-66. La Plata.

Identification key and descriptions of six species in the genus *Chlamys* Röding, 1798 (Bivalvia, Pectinidae): *C. felipponei* (Dall, 1922) (now in genus *Flexopecten* Sacco, 1897), *C. madrynensis* (Lahille, 1906), *C. tehuelchus* [sic] (d'Orbigny, 1842) (*erratum pro tehuelcha*) (the latter two, now in *Aequipecten* Fischer, 1886), *C. natans* Philippi, 1845 (now in genus *Austrochlamys* Jonkers, 2003), *C. lischkei* (Dunker, 1850), and *C. patagonicus* [sic] King & Broderip, 1832 (*erratum pro patagonica*) (the latter two, now in *Zygochlamys* Ihering, 1907). Distribution comments, photographs, measurements and some data on individual growth.

Castellanos ZJA de, Fernández D. 1972. Resultados de la campaña exploratoria S.A.O. I - 1971: Nuevos moluscos para Golfo San Matías. [Results of the exploration campaign S.A.O. I - 1971: New molluscs for San Matías Gulf.] *Anales de la Sociedad Científica Argentina*, 198(5-6): 225-235. Buenos Aires. [Reprinted 1972 by the Comisión de Investigaciones Científicas de la Provincia de Buenos Aires (La Plata).]

Record and biogeographic comments on 64 species of Polyplacophora, Gastropoda, Cephalopoda and Bivalvia, and description of *Eatoniella rubrooperculata* sp. nov. (Gastropoda: Eatoniellidae) (shell, operculum, radula).

Castellanos ZJA de, Fernández D. 1972. Una nueva especie de *Eatoniella* (Mollusca, Rissoacea). [A new species of *Eatoniella*.] *Neotropica* **18** (55): 6-8. La Plata.

Description (shell, operculum, radula) of *Eatoniella argentinensis* sp. nov. (incorrect original spelling "*argentinense*" mandatorily emended for gender agreement). Taxonomic affiliation: Gastropoda, Eatoniellidae Ponder, 1965.

Castellanos ZJA de, Fernández D. 1972. Un nuevo *Bathydomus* para aguas subantárticas (Mollusca, Buccinulidae). [A new *Bathydomus* for subantarctic waters.] *Neotropica*, 18(56): 81-86. La Plata.

Description of shell, operculum, radula and penis of *Bathydomus longisetosus* sp. nov. Current taxonomic affiliation: Gastropoda, Buccinidae Rafinesque, 1815, *Americominella duartei* Klappenbach & Ureta, 1972.

Castellanos ZJA de, Fernández D. 1972. A propósito de *Bathydomus longisetosus* (Moll. Buccinulidae). [About *Bathydomus longisetosus*.] *Neotropica*, 18(57): 111-112. La Plata.

Discussion on its generic position and a claim for priority on *Americominella duartei* Klappenbach & Ureta, 1972, published in Uruguay the same month and year. Current taxonomic affiliation: Gastropoda, Buccinidae Rafinesque, 1815, *Americominella duartei* Klappenbach & Ureta, 1972.

- Castellanos ZJA de. 1973. Dos nuevos *Chlamys* del sur argentino. [Two new *Chlamys* from Southern Argentina.] *Neotropica*, 19(59): 62-65. La Plata.
- Shell description, with photographs and drawings, of *Chlamys argentinensis* sp. nov. and *C. lahillei* sp. nov. (Bivalvia, Pectinidae).
- Castellanos ZJA de, Fernández D. 1973. Clave genérica de la malacofauna terrestre argentina. [Generic key to the terrestrial mollusc fauna of Argentina.] – *Revista del Museo de La Plata, Sección Zoología*, 11(107): 265-285. La Plata.
- Identification key to 60 genera in 23 families of terrestrial snails and slugs. Information on each genus includes a list of the species known to live in Argentina (244 species) and a drawing or a photograph of a representative.
- Fernández D, Castellanos ZJA de. 1973. Novedosas adiciones al género *Pyrene* (Moll. Gastropoda). [Novel additions to the genus *Pyrene*.] *Neotropica*, 19(60): 135-137. La Plata.
- Description of the radulae of *Pyrene agnesia* (Strebel, 1905) nov. comb. and *P. acuminata* (Smith, 1915) nov. comb., and admission of two subfamilies of Columbelloidea Swainson, 1840: Columbelloidea Swainson, 1840 and Pyreninae Suter, 1909.
- Castellanos ZJA de. 1973. Estratificación del complejo bentónico de invertebrados en Puerto Paraíso (Antártida). [Stratification of the invertebrate benthic complex at Paradise Harbour (Antarctica).] *Contribución del Instituto Antártico Argentino*, 164: 1-30. Buenos Aires.
- A qualitative description of the spatial distribution of benthic fauna along six transects perpendicular to the coast at Paradise Harbour (64° 53' S 62° 52' W). Identification of algae, cnidarians, turbellarians, nemerteans, annelids, molluscs, crustaceans, pantopods and other invertebrates on different strata. Coastal profiles are outlined with symbols representing the species inhabiting each level. With six photographs of landscapes and a map showing the location of transects.
- Castellanos ZJA de, Fernández D. ca 1974. *Cátedra de Zoología Invertebrados I. Apuntes: Poríferos, radiados y acelomados*. [First course on Invertebrate Zoology. Class notes: Poriferan, radiate and acoelomate invertebrates.] La Plata: Universidad Nacional de La Plata, Facultad de Ciencias Naturales y Museo. 70 p., 8 plates [mimeo.].
- Castellanos ZJA de. ca 1974. *Cátedra de Zoología Invertebrados I. Apuntes: Seudocoelomados y celomados*. [First course on Invertebrate Zoology. Class notes: Pseudocoelomate and coelomate invertebrates.] – La Plata: Universidad Nacional de La Plata, Facultad de Ciencias Naturales y Museo. 141 p., 24 plates [mimeo.].
- Note: The latter two titles are maybe the very first draft to the book *Los invertebrados* [*The invertebrates*] published in 1983-1996, with 1691 total pages (see below).
- Castellanos ZJA de. 1974. Aclaración sobre *Nuculana striata* (King) (Moll. Pelecypoda). [Explanation on *Nuculana striata*.] *Neotropica*, 20(63): 144. La Plata.
- A nomenclatorial discussion on the validity of *Nucula striata* King, 1831, *non* Lamarck, 1805. Her conclusion did not match the rules of the International Code of Zoological Nomenclature. Record of 11 localities in Argentinean waters. Current taxonomic affiliation: Bivalvia, Nuculanidae Adams & Adams, 1858.
- Castellanos ZJA de, Fernández D. 1974. Nuevas *Rissoa* Freminuille, 1813 del Atlántico Sudoccidental (Moll. Rissoacea). [New species of *Rissoa* from the Southwestern Atlantic.] *Neotropica*, 20(63): 153-155. La Plata.

Description of shell, operculum and radula of *Rissoa cruzi* sp. nov. and *R. herwigia* sp. nov. (Gastropoda, Rissoidae). *Eatoniella rubrooperculata* transferred to genus *Barleeia* Clark, 1853 (Barleeiidae).

Castellanos ZJA de, Fernández D. 1975. Acerca de las especies del género *Savatieria* Roch. y Mab., 1885 (Moll. Gastropoda). [On the species in the genus *Savatieria*.] – *Neotropica*, 21(65): 57-60. La Plata.

New records, synonymies, distribution data and comments of *Savatieria* (*Savatieria*) *frigida* Rochebrune & Mabilie, 1885, *S. (S.) meridionalis* (Smith, 1881), *S. (S.) aerolata* [sic] Strebel, 1905 (*erratum pro areolata*), *S. (S.) bertrandi* Melvill & Sanden, 1914, and description (shell, operculum, radula) of *S. (Lisosavatieria) deseadensis* sp. nov. (incorrect original spelling “deseadense” mandatorily emended for gender agreement). Current taxonomic affiliation: Gastropoda, Buccinidae Rafinesque, 1815.

Castellanos ZJA de. 1975. Primer registro de *Macromphalina* Cossmann en la Argentina. [First record of *Macromphalina* in Argentina.] *Neotropica*, 21(66): 135-136. La Plata.

Shell description of *Macromphalina argentina* sp. nov. (Gastropoda, Vanikoridae) from Bahía Blanca, Argentina.

Castellanos ZJA de. 1975. Bibliografía de moluscos dulceacuícolas de la Argentina y países vecinos. [Bibliography on the freshwater molluscs of Argentina and neighbouring countries.] La Plata: Universidad Nacional de La Plata. Facultad de Ciencias Naturales y Museo (mimeo). 23 p.

Castellanos ZJA de, Fernández D. 1976. Los géneros *Calliostoma* y *Neocalliostoma* del Mar Argentino con especial referencia al área subantártica. [The genera *Calliostoma* and *Neocalliostoma* of the Argentinean Sea, with special reference to the subantarctic area.] *Revista del Museo de La Plata, Sección Zoología*, 12(116): 133-156. La Plata.

New records, synonymies, distribution data, comments and drawings of the shells and radulae of ten species in the subgenus *Calliostoma* (*Calliostoma*) Swainson, 1840, including the new variety *C. (C.) coppingeri* var. *major*; statement of *Calliostoma* (*Neocalliostoma*) sgen. nov. for *C. militaris* Ihering, 1907. Identification key to species and zoogeographical discussion. Current taxonomic affiliation: Gastropoda, Calliostomatidae Thiele, 1924.

Castellanos ZJA de, Fernández D. 1976. Ampullariidae [Gastropoda.]. In: Ringuelet, Raúl Adolfo (ed.). *Fauna de agua dulce de la República Argentina*, 15(1): 1-33. Buenos Aires: FECIC.

Diagnosis of the family and its genera, with a key to the already known species from Argentina. Descriptions of shells, distribution data, and drawings of shells, opercula and radulae of 12 species (one of them with one subspecies) in the genera *Ampullaria* Lamarck, 1799 (now in *Pomacea* Perry, 1810), *Asolene* d'Orbigny, 1838 (some of them now in genus *Pomella* Gray, 1847), *Felipponea* Dall 1919, and *Marisa* Gray, 1824.

Gaillard [M]C, Castellanos ZJA de. 1976. Hydrobiidae [Gastropoda.]. In: Ringuelet, Raúl Adolfo (ed.). *Fauna de agua dulce de la República Argentina*, 15(2): 1-40. Buenos Aires., FECIC.

Diagnosis of the family and genus *Littoridina* Souleyet, 1852, with a key to species. Descriptions of shells, radulae and penis morphology, and distribution data of 16 already known species from Argentina (now in *Heleobia* Stimpson, 1865, Cochliopidae), grouped in four shell-defined aggregates of species: *australis* group, *piscium* group, *parchappei* [sic] group (unjustified emendation for *parchappii*), and *hatcheri* group.



Castellanos ZJA de, Fernández D. 1976. Las especies del género *Paraeuthria* [sic] Strebel, 1905 del Mar Argentino (Mollusca: Buccinulidae). [The species in the genus *Pareuthria* of the Argentinean Sea.] *Neotropica*, 22(67): 9-14. La Plata.

New records, synonymies, distribution data, comments and drawings of *Pareuthria plumbea* (Philippi, 1844), *P. fuscata* (Bruguière, 1789), *P. magellanica* (Philippi, 1848), *P. rosea* (Hombron & Jacquinot, 1854), *P. paessleri* (Strebel, 1905), *P. cerialis* [sic] (Rochebrunne & Mabile, 1885) (*erratum pro cerealis*), *P. ringei* (Strebel, 1905), *P. venustula* Powell, 1951 and *P. michaelsoni* (Strebel, 1905). Current taxonomic affiliation: Gastropoda, Buccinidae Rafinesque, 1815.

Castellanos ZJA de. 1977. Necrológica: Dr. Max Birabén (1893-1977). [Obituary: Dr. Max Birabén (1893-1977).] *Neotropica*, 23(70): 114-116. La Plata.

Tribute biography to the founder and director of the journal *Neotropica* and former director of the Museo Argentino de Ciencias Naturales Bernardino Rivadavia (Buenos Aires).

Castellanos ZJA de, Cazzaniga NJ. 1977. Aportes al conocimiento de *Loligo patagonica* Smith, 1881 (Cephalopoda Decapoda). [Contribution to the knowledge of *Loligo patagonica*.] *Neotropica*, 23(70): 123-132. La Plata.

Redescription and measurements of this poorly known squid. The overlap of distribution areas and biometric matches to *Loligo gahi* are suggested as the basis of an unsolved taxonomic problem between the two nominal species. Current taxonomic affiliation: Cephalopoda, Loliginidae Lesueur, 1821, *Doryteuthis gahi* (d'Orbigny, 1835).

Larramendy ML, Castellanos ZJA de. 1978. Sobre un nuevo picnogónido del Mar Argentino (Pycnogonida, Pallenidae). [On a new pycnogonid from the Argentinean Sea.] *Neotropica*, 24(72): 91-97. La Plata.

Description of *Pallenopsis mariae* sp. nov. (now in the family Pallenopsidae) from Bahía Creek, Argentina.

Castellanos ZJA de, Cazzaniga NJ. 1979. Aclaraciones acerca de los Loliginidae del Atlántico Sudoccidental (Mollusca Cephalopoda). [Explanation on the Loliginidae from the Southwestern Atlantic.] *Neotropica*, 25(73): 59-68. La Plata.

Taxonomic discussion and biometric data on *Loligo brasiliensis* Blainville, 1823 [now *Doryteuthis sanpaulensis* (Brakonieccki, 1984)], and *L. gahi* d'Orbigny, 1835 (now in genus *Doryteuthis* Naef, 1912), with *L. patagonica* Smith, 1881 and *L. ellipsura* Hoyle, 1885 included in the synonymy of *L. gahi*.

Castellanos ZJA de. 1979. Novedades sobre micromoluscos de la plataforma argentina (Mollusca Gastropoda). [Novelties on micromolluscs from the Argentinean continental shelf.] *Neotropica*, 25(73): 91-96. La Plata.

Shell description of *Anachis cancellata* sp. nov. (now in genus *Amphissa* Adams & Adams, 1853, Columbellidae), and new records and data on *Solariella kempii* Powell, 1951 and *S. patriae* Carcelles, 1953 (Solariellidae), and *Macromphalina argentina* Castellanos, 1975 (Vanikoridae).

Castellanos ZJA de. 1979. Micromoluscos poco conocidos del sur argentino-chileno. [Little known micromolluscs from the Argentine-Chilean South.] *Neotropica*, 25(74): 133-140. La Plata.

New records of 23 species of Scaphopoda, Bivalvia and Gastropoda from Argentinean and Chilean waters, with ten shell drawings.

Castellanos ZJA de, Cazzaniga NJ. 1980. Comentarios sobre cefalópodos del Perú. [Comments on Peruvian Cephalopoda.] *Neotropica*, 26(75): 23-27. La Plata.

New records, data and measurements on *Loligo gahi* d'Orbigny, 1835 (now in the genus *Doryteuthis* Naef, 1912, Loliginidae), *Lolliguncula panamensis* Berry, 1911 (Loliginidae), and *Histioteuthis dofleini* (Pfeffer, 1912) (now a subjective synonym of *H. hoylei* (Goodrich, 1896), Histioteuthidae).

Castellanos ZJA de, Miquel SE. 1980. Notas complementarias al género *Chilina* Gray (Mollusca Pulmonata). [Additional notes on the genus *Chilina*.] *Neotropica*, 26(76): 171-178. La Plata.

Description (shells and radulae) of *Chilina guaraniana* sp. nov. and *C. fluminea tucumanensis* ssp. nov. (Gastropoda, Chiliniidae) from Argentina. New data and measurements of *C. aurantia* Marshall, 1924, *C. angusta* Philippi, 1860, and *C. parchappii* (d'Orbigny, 1835).

Lopretto EC, Castellanos ZJA de, 1980. Los ciliados a la luz de la microscopía electrónica. [The ciliate protozoans under electronic microscopy.] *Neotropica*, 26(76): 225-232. La Plata.

A didactic review of the taxonomic major-group arrangement in the phylum Ciliophora, according to the latest information on stomatogenesis and ultrastructure of the oral and paraoral zones.

Castellanos ZJA de. 1980. Moluscos litorales de la Isla de los Estados. [Littoral molluscs of the Staten Island.] In: *Obra del Centenario del Museo de La Plata*, 6: 53-73. La Plata: Universidad Nacional de La Plata, Facultad de Ciencias Naturales y Museo.

A list with synonymy, distribution and habitat of 67 species of Polyplacophora (six species), Gastropoda (38 species) and Bivalvia (23 species) collected at 22 locations by the "Hero" cruise 1971-1972 and the "San Luis" A.R.A. cruise 1933-1934.

Castellanos ZJA de. 1981. Thiariidae [Gastropoda.]. – In: Ringuélet, Raúl Adolfo (ed.). *Fauna de agua dulce de la República Argentina*, 15(3): 5-18. Buenos Aires: FECIC.

Diagnosis of the family and genus *Aylacostoma* Spix, 1827, with a key to identify the included two species. Descriptions of shells, opercula, general anatomy and radulae of *A. guaranítica* [sic] (Hylton Scott, 1953) and *A. chlorotica* [sic] Hylton Scott, 1954 (incorrect spellings mandatorily emended to *guaraniticum* and *chloroticum* for gender agreement).

Castellanos ZJA de, Gaillard MC. 1981. Chiliniidae [Gastropoda.]. In: Ringuélet, Raúl Adolfo (ed.). *Fauna de agua dulce de la República Argentina*, 15(4): 19-51. Buenos Aires: FECIC.

Diagnosis of the family and genus *Chilina* Gray 1828, with a key to species. Descriptions of shells, general anatomy and radulae, and distribution data of 14 already known species from Argentina (one of them with two subspecies), grouped in three shell-defined aggregates of species: *fluminea* group, *parchappei* [sic] group (unjustified emendation for *pachappii*), and *gibbosa* group.

Castellanos ZJA de, Landoni, NA. 1981. Lymnaeidae [Gastropoda.]. In: Ringuélet, Raúl Adolfo (ed.). *Fauna de agua dulce de la República Argentina*, 15(5): 53-82. Buenos Aires: FECIC.

Diagnosis of the family and genera *Lymnaea* Lamarck, 1801 and *Pseudosuccinea* Baker, 1908, with a key to species. Descriptions of shells, radulae and genitalia, and distribution data of five already known species from Argentina: *Pseudosuccinea columella* (Say, 1817), *Lymnaea diaphana* King, 1830, *L. plicata* Hylton Scott, 1953, *L. viatrix* [sic] d'Orbigny, 1835 (*erratum pro viator*), and *L. pictonica* Rochebrune & Mabilie, 1889.

Castellanos ZJA de. 1981. Nuevos registros sobre micromoluscos (Gastropoda Eulimidae). [New records of micromolluscs.] *Neotropica*, 27(78): 147-149. La Plata.

New records of three Argentinean and Antarctic species of Eulimidae:  
*Strombiformis auricineta* Abbott, 1958 (now in the genus *Hemiliostraca* Pilsbry, 1917), *Balcis subcarinata* d'Orbigny, 1842 (now in *Eulimostraca* Bartsch, 1917), and *Balcis solitaria* (Smith, 1915) (now in *Melanella* Bowdich, 1822).

Castellanos ZJA de. 1982. Los moluscos de las campañas del "Shinkai Maru". [The molluscs of the "Shinkai Maru" campaigns.] *Neotropica*, 28(79): 41-46. La Plata.

A report on about 96 species of Polyplacophora, Gastropoda, Bivalvia and Scaphopoda collected at 46 sampling stations off Argentinean coasts. A map and thoughts on geographic distribution added.

Castellanos ZJA de. 1982. Estado actual de los Ancyliidae neotropicales. [Current status of the Neotropical Ancyliidae.] *Neotropica*, 28(80): 101-102. La Plata.

A short review of the generic position of the Argentinean ancylid limpets. Current taxonomic affiliation: Gastropoda, Planorbidae Rafinesque, 1815, Ancyliinae Rafinesque, 1815.

Castellanos ZJA de. 1982. Los Pyramidellidae de la República Argentina (Moll. Entomotaeniata). [The Pyramidellidae of the Argentine Republic.] *Comunicaciones del Museo Argentino de Ciencias Naturales Bernardino Rivadavia e Instituto Nacional de Investigación de las Ciencias Naturales, Hidrobiología*, 2(7): 61-85. Buenos Aires.

A list of 28 species grouped according to their biogeographic origin, 20 of which are discussed with synonymy, distribution, and shell descriptions. Seven new taxa described: *Turbonilla elongata* sp. nov., *T. paralaminata* sp. nov., *T. sanmatiense* sp. nov. (incorrect original spelling "sanmatiense" mandatorily emended for gender agreement), *Eulimella bahiensis* sp. nov. (incorrect original spelling "bahiese" mandatorily emended for gender agreement), *Odostomia multituberculata* sp. nov., *O. puelchana* sp. nov., and *O. nova* sp. nov. (Gastropoda, Pyramidellidae). A monotypic new subgenus, *Odostomia (Bidentata)*, is described for *O. nova*.

Castellanos ZJA de. 1982. In memoriam: Dr. Raúl Adolfo Ringuelet (1914-1982). *Ameghiniana*, 19(1-2): 3-5. Buenos Aires.

A very affectionate remembrance of her former professor and thesis advisor, who undoubtedly was the most prominent Argentinean zoologist. Ringuelet was mainly specialized in taxonomy of leeches, crustaceans and fish, but also authored the first contributions to the knowledge of many other animal groups in Argentina, as well as to some issues of ecology and limnology.

Castellanos ZJA de. 1983. Los moluscos de las campañas del "Shinkai Maru": Nota complementaria. [The molluscs of the "Shinkai Maru" campaigns: Additional note.] *Neotropica*, 29(81): 35-38. La Plata.

A report on about 60 species of Polyplacophora, Gastropoda, Bivalvia and Scaphopoda collected at 26 sampling stations off Argentinean coasts. A map and thoughts on geographic distribution added.

Castellanos ZJA de, Lopretto EC. 1983. *Los invertebrados [The invertebrates.]* Vol. 1: Los protistas de filiación animal. [Protists of animal filiation.] Buenos Aires: EUDEBA. 386 p. ISBN 950-23-0038-6.

Castellanos ZJA de, Landoni NA. 1984. Nueva contribución al conocimiento de los micromoluscos de la plataforma continental argentina. [A new contribution to the knowledge of the micromolluscs of the Argentinean continental shelf.] *Revista del Museo de La Plata, Sección Zoología*, 13(149): 291-299. La Plata.

Descriptions and remarkable drawings of *Turritellopsis marplatensis* sp. nov. (Mathildidae), and generic relocations for the gastropods *Eumetula michaelsoni* (Strebel, 1906) (Newtoniellidae), *Mangelia michaelsoni* (Strebel, 1906)

(Mangeliidae), *Eulimella xenophyes* (Melvill & Standen, 1912) (Pyramidellidae), and *Actaeon biplicata* [sic] (Strebel, 1908) (*erratum pro biplicatus*) (Acteonidae). New records for *Cerithiopsilla* aff. *bisculpta* (Strebel, 1908) (Cerithiopsidae), *Prosipho chordatus* (Strebel, 1908) (Buccinidae), and *Odostomia translucens* (Strebel, 1908) (Pyramidellidae). *Cerithium georgianum* Pfeffer, 1886 (Cerithiidae) is transferred to the genus *Mathilda* Semper, 1865 (Mathildidae).

Castellanos ZJA de. 1985. Sobre una nueva especie de *Antistreptus* Dall, 1902 (Moll. Buccinulidae). [On a new species of *Antistreptus*.] *Neotropica*, 31(86): 132. La Plata.

Short description of the shell of *Antistreptus rolani* sp. nov. from Magellanic waters. No figures included. Current taxonomic affiliation: Gastropoda, Buccinidae Rafinesque, 1815.

Castellanos ZJA de. 1986. Aclaración sobre *Trophon acanthodes* Watson, 1883 (Mollusca Gastropoda). [Explanation on *Trophon acanthodes*.] *Neotropica*, 32(87): 22. La Plata.

Ratification, with description of radular teeth, that this species belongs to genus *Trophon* Montfort, 1810. Current taxonomic affiliation: Gastropoda, Muricidae Rafinesque, 1815, *Coronium acanthodes* (Watson, 1882).

Castellanos ZJA de, Bartolotta S, Rolán E. 1987. Aportes a la malacofauna del Talud superior del Atlántico Sur. [Contributions to the mollusc fauna of the South Atlantic upper shelf slope.] *Thalassas*, 5(1): 57-70. Vigo, Spain.

Identification of 40 species of gastropods collected from off Argentinean coasts, between 570 and 600 m deep, with descriptions, comments and biogeographic conclusions.

Castellanos ZJA de, Rolán E, Bartolotta S. 1987. Nuevos micromoluscos de la plataforma inferior argentina y talud superior (Moll. Gastropoda). [New micromolluscs of the Argentinean lower platform and upper slope.] *Revista del Museo de La Plata, Sección Zoología*, 14(156): 93-107. La Plata.

Description of seven new species of Gastropoda collected by the Spanish fishing vessel "Conde de Gondomar" at 46° S, 60° W, 600 m deep: *Cerithiella (Stilus) axicostulata* sp. nov. (Newtoniellidae), *Papuliscala diminuta* sp. nov. (Nystiellidae), *Melanella salvadori* sp. nov. (Eulimidae), *Savatieria chordata* sp. nov. (Buccinidae), *Anomacne* [sic] *multituberculata* sp. nov. (*erratum pro Anomacme* Strebel, 1905) (Buccinidae), *Trophon triacanthus* sp. nov. (Muricidae), and *Acteon elongatus* sp. nov. (Acteonidae).

Castellanos ZJA de. 1988. Novedades sobre micromoluscos subantárticos (Mollusca, Gastropoda). [Novelties on Subantarctic micromolluscs.] *Neotropica*, 36(92): 89-92. La Plata.

Shell description of *Omalogyra taludana* sp. nov. (Omalogyridae), and record, with photographs, of the gastropods *Odostomia translucens* (Strebel, 1908) (Pyramidellidae), *Antistreptus rolani* Castellanos, 1985 (Buccinidae), *Cirsonella kerguelensis* [sic] Thiele, 1912 (*erratum pro kerguelensis*) (Skeneidae), and *Cyclostrema gaudens* Melvill & Standen, 1912 (Liotiidae).

Castellanos ZJA de, Landoni NA. 1988. Addenda a la bibliografía de los moluscos dulceacuícolas de la Argentina y países vecinos (hasta el año 1986). [Addenda to the bibliography on freshwater molluscs of Argentina and neighbouring countries (until 1986).] *Biología Acuática*, 12: 1-56. La Plata.

Castellanos ZJA de. 1988. *Catálogo descriptivo de la malacofauna marina magallánica*. [Descriptive catalogue of the marine Magellanic mollusc fauna.] 1. Los placóforos

(Mollusca: Placophora). La Plata: Comisión de Investigaciones Científicas de la Provincia de Buenos Aires. 41 p.

Descriptions, synonymies and distribution data on 26 species of Polyplacophora in 11 genera of four families. With 98 figures of animals and plates.

Castellanos ZJA de, Landoni NA. 1988. *Catálogo descriptivo de la malacofauna marina magallánica*. [Descriptive catalogue of the marine Magellanic mollusc fauna.] 2. Archigastropoda: Scissurellidae, Fissurellidae, Patellidae, Acmaeidae y Lepetidae. La Plata: Comisión de Investigaciones Científicas de la Provincia de Buenos Aires. 40 p.

Descriptions, synonymies and distribution data on 30 species and two subspecies in 12 genera. With 35 photographs of shells.

Castellanos ZJA de, Landoni NA. 1989. *Catálogo descriptivo de la malacofauna marina magallánica*. [Descriptive catalogue of the marine Magellanic mollusc fauna.] 3. Trochidae y Turbinidae (Archigastropoda). La Plata: Comisión de Investigaciones Científicas de la Provincia de Buenos Aires. 40 p.

Descriptions, synonymies and distribution data on 28 species and two subspecies in 14 genera. With 20 drawings and 17 photographs of shells.

Castellanos ZJA de. 1989. *Catálogo descriptivo de la malacofauna marina magallánica*. [Descriptive catalogue of the marine Magellanic mollusc fauna.] 4. Mesogastropoda: Skeneopsidae, Omalogyridae, Littorinidae, Barleeidae, Eatoniellidae, Skenellidae y Rissoidae. La Plata: Comisión de Investigaciones Científicas de la Provincia de Buenos Aires. 44 p.

Descriptions, synonymies and distribution data on 37 species and one subspecies in 15 genera. With 51 illustrations of shells and radular.

Castellanos ZJA de. 1990. *Catálogo descriptivo de la malacofauna marina magallánica*. [Descriptive catalogue of the marine Magellanic mollusc fauna.] 5. Mesogastropoda: Cerithiidae, Turritellidae, Epitoniidae, Janthinidae, Eulimidae. La Plata: Comisión de Investigaciones Científicas de la Provincia de Buenos Aires. 36 p.

Descriptions, synonymies and distribution data on 29 species and two subspecies in 14 genera, including the description of *Mathilda argentina* sp. nov. and two innominate species probably new. Eight nominal species only known through their original descriptions. With 31 drawings of shells.

Castellanos ZJA de, Landoni NA. 1990. *Catálogo descriptivo de la malacofauna marina magallánica*. [Descriptive catalogue of the marine Magellanic mollusc fauna.] 6. Mesogastropoda: Trichotropidae, Calyptraeidae, Capulidae, Struthiolariidae, Naticidae, Lamellariidae, Cymatiidae. La Plata: Comisión de Investigaciones Científicas de la Provincia de Buenos Aires. 38 p.

Descriptions, synonymies and distribution data on 27 species and one subspecies in 15 genera. Four nominal species only known through their original descriptions. With 13 drawings and 25 photographs of shells, including one *Recent Advances in Cephalopod Fisheries Biology* innominate Naticidae.

Castellanos ZJA de. 1990. Nota necrológica: María Isabel Hylton Scott de Birabén (1889-1990). [Obituary note: María Isabel Hylton Scott de Birabén (1889-1990).] *Neotropica*, 36(95): 3-4. La Plata.

Heartfelt personal recollections of this eminent malacologist, the first woman who earned a doctorate in Zoology in Argentina (1917), who died in La Plata at the respectable age of 101.

Castellanos ZJA de, Landoni NA. 1990. Mycetopodidae [Bivalvia]. In: Castellanos ZJA de (ed.). *Fauna de agua dulce de la República Argentina*, 16(1): 1-86. Buenos Aires: FECIC.

General characters of the family, habitat; feeding and digestive system; reproduction: marsupium, eggs, larvae, parasitic development and juveniles; list and key to 21 already known species from Argentina, in the genera *Leila* Gray, 1840, *Anodontites* Bruguière, 1792, *Mycetopoda* d'Orbigny, 1835, *Monocondylaea* d'Orbigny, 1835, *Fossula* Lea, 1870, and *Haastica* Strand, 1932 (three of these species not recorded yet in Argentina but present in neighbouring countries).

Castellanos ZJA de, Lopretto EC. 1990. *Los invertebrados [The invertebrates.]* Vol. 2: Los agnotozoos, parazoos y metazoos no celomados. [The agnotozoan, parazoan and non coelomate metazoans.] Buenos Aires: Librería Agropecuaria, Biblioteca Mosaico. 529 p. ISBN 950-9350-08-7.

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### **Renata Boucher-Rodoni**

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