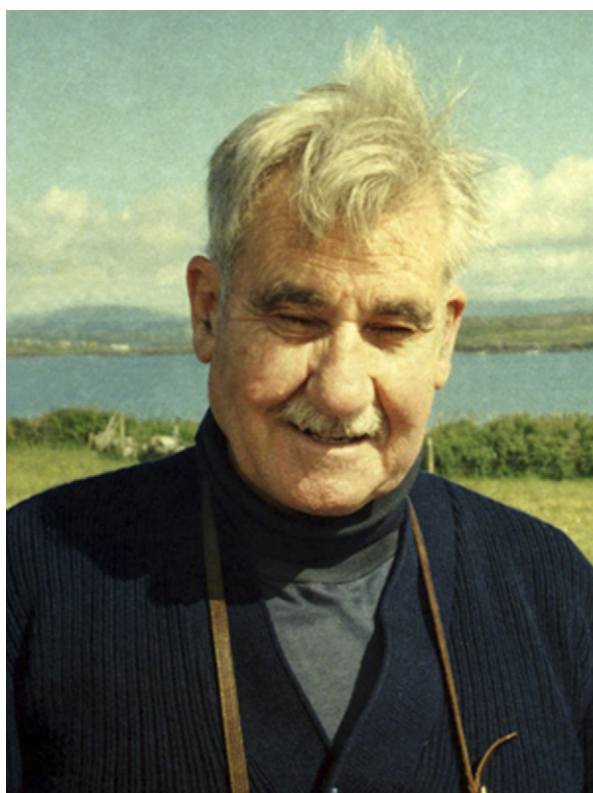


Obituary

Enrique Balech (1912–2007)

*More than a dinoflagellate taxonomist*

As an eminent taxonomist and a pioneering scientist worried about the damages that human beings are causing to the planet Earth, Enrique Balech left an indelible mark. A man of great integrity died on 26 August 2007 in Necochea, Argentina, a few days after his 95th birthday.

Balech was born in Telén in the province of La Pampa, Argentina, on 17 August 1912. In 1937 he finished his studies at the Instituto Superior del Profesorado “J. V. González” in Buenos Aires where he became a high school teacher of Natural Sciences. At the beginning of his career he worked on freshwater protists at the Museo Argentino de Ciencias Naturales “B. Rivadavia” (MACN), first as an honorary associate and later as a chief of the Protistology Laboratory. During this period he worked on testate amoebae, ciliates and euglenoids. In the 1940s, he left Buenos Aires and moved to Necochea where he

worked in marine sciences at the Estación Hidrobiológica de Puerto Quequén until 1947 when he was fired due to political reasons, three years after he was given an award by the Argentinean National Academy of Exact, Physical and Natural Sciences. Then, Balech worked as a high school teacher and continued his scientific research while working at home. He was internationally known as a scientist, and just as importantly he was a teacher, who mentored generations of students in biological sciences.

Although he has worked with many plankton groups, like tintinnids, his most important contributions were on thecate or armored dinoflagellate taxonomy. In order to achieve more experience, during the 1950s he traveled abroad. In 1951, he spent two boreal summer months at the Station Biologique de Roscoff, France, thanks to a fellowship from the French Government. As a result, he published a pioneering paper on sand-dwelling dinoflagellates. Later, he traveled to the Scripps Institution of Oceanography, CA, USA, where he spent several months in 1957 and 1958 working on plankton of the Pacific Ocean funded by a grant of the Simon Guggenheim Memorial Foundation. During that stage he described two new genera of dinoflagellates, *Fragilidium* and *Scrippsiella*, the latter dedicated to Scripps. He returned to the United States in 1964 to work for a year at Texas A&M University. During this time he increased the number of known dinoflagellate species of the Gulf of Mexico from 76 to 262 and reported on their distribution.

He developed great knowledge and understanding of dinoflagellate morphology by examining samples from very diverse origins, from cold waters like Antarctica, temperate waters like the SW Atlantic, California current or France to tropical waters like the Caribbean Sea and the Gulf of Mexico. He characterized the singular and sulcal plates of many genera that were not known and considered that they were necessary for a modern diagnosis. Balech's plate interpretations and modification of Kofoed's plate tabulation system is widely accepted. Based on sulcal and circular characters he moved all the marine species of the genus *Peridinium* to the new *Protoperidinium*, which became the dinoflagellate genus with the most described species. This represented an important change in dinoflagellate systematics. Balech revised many genera from different families (*Podolampas*, *Goniodoma*, *Pyrodinium*, *Pyrophacus*, *Palaeophalacroma* and *Dinophysis*). He proved the existence of a sulcus in *Podolampas*, and was the first to recognize the heterogeneity of the genus *Gonyaulax*. He concluded as Abé, that *Dinophysis* and *Phalacroma* have great similarities in their theca. He also validated many old dubious taxa with more complete redescrptions. Using dinoflagellates as bioindicators to identify different water masses and currents, he contributed to a better understanding of dinoflagellate occurrence and distribution.

Regarding harmful algae, in 1973 he warned about the possibility of an outbreak of PSP in Argentina and he identified the cause of some human fatality cases as well as the causative species and provided assessment. Since then he focused his work more on toxic dinoflagellates. Using his own samples as well as others provided by colleagues from all over the world, he carried out an impressive study of the genus *Alexandrium* describing many of its species and redescribing the type species of the genus, *A. minutum*. He transferred many species previously considered to be in other genera, e.g., *Gonyaulax*, to this genus. His important monograph on *Alexandrium* provided essential information on how to identify and differentiate species, some of which are toxic. Balech made important contributions to the taxonomy of many other harmful dinoflagellates in the genera *Pyrodinium*, *Dinophysis*, *Prorocentrum* and *Ostreopsis*. Due to his outstanding work on the taxonomy of harmful dinoflagellates he was recognized for his achievements at the Third International Conference on Toxic Dinoflagellates held in St. Andrews in 1985. As he did much of his work at home, when he retired as a teacher in 1982, he became a full time researcher, as he used to say. Despite being officially retired he carried out and published some of his most relevant works, e.g., the monograph on *Alexandrium*, the book “Los Dinoflagelados del Atlántico Sudoccidental” (his magnum opus, as he called it), and, among other studies, two new contributions to the genus *Protoperdinium*.

All those who have had the privilege of meeting him, appreciate his interesting and stimulating letters written on very thin paper or typed with a typewriter given to him by Matt Murphy of Sherkin Island, Ireland. Often his letters were accompanied by detailed drawings of some species. He also used his skill as an illustrator and artist to draw caricatures of his colleagues where he showed his great sense of humor. Enrique Balech had a very serious concern about the environmental degradation of the Earth as he showed in his book “Geocidio. La destrucción del planeta” (“Geocide. Destruction of the Planet”) published in 1978 and in short articles about, for example, topics like how overfishing can affect marine resources. As he grew up in La Pampa, he was also an expert in horses. At a workshop on taxonomy in Sherkin Island, Ireland, when he was 77 and complaining that he was too old to travel by plane, he was observed riding a horse. Enrique could talk with you about anything and the conversations went from science to cultural history, wars, and even languages. He was a great proponent of Esperanto and would encourage all that he met to learn it. As a person he was warm, humorous, and giving. As a scientist he was detailed, observant and a pioneer.

Reference list of publications of Enrique Balech

- Balech E., Dastugue, C., 1938. Nota preliminar sobre *Strombomonas* y *Trachelomonas*. *Physis* (Buenos Aires) 12, 354–357.
- Balech, E., Motti, F.A., 1941. Breves observaciones planctónicas realizadas en la Estación Hidrobiológica de Puerto Quequén. *Physis* (Buenos Aires) 19 (51), 75–76.
- Balech, E., 1941. *Neobursaridium gigas* n. gen. n. sp. de ciliado heterotrico. *Physis* (Buenos Aires) 19, 29–35.
- Balech, E., 1942. Tintinoideos del Estrecho Le Maire. *Physis* (Buenos Aires) 19, 242–252.
- Balech, E., 1944. Contribución al conocimiento del plancton de Lennox y Cabo de Hornos. *Physis* (Buenos Aires) 19, 423–446.
- Balech, E., 1944. *Trachelomonas* de la Argentina. *Anales Mus. Argentino Cs. Nat.* “B. Rivadavia”, *Protistología* 5, 221–305 (15 lám).
- Balech, E., 1945. Tintinoidea de Quequén. *Physis* (Buenos Aires) 20, 1–15.
- Balech, E., 1947. Contribución al conocimiento del plancton antártico. *Plancton del Mar de Bellingshausen. Physis* (Buenos Aires) 20, 75–91 (7 lám).
- Balech, E., 1947. La división zonal en zoogeografía marina. *Ciencia e Invest. Asoc. Arg. Progr. Cienc.* 3 (2), 447–450.
- Balech, E., 1948. A propósito de la Plataforma Submarina. *Ciencia e Invest. Asoc. Arg. Progr. Cienc.* 8, 347–349.
- Balech, E., 1948. Tintinoidea de Atlántida (R. O. del Uruguay) (Protozoa Ciliata Oligotr.). *Comun. Mus. Arg. Cs. Nat.* “B. Rivadavia”, *Ser. Cs. Zool.* 7, 1–23 (8 lám).
- Balech, E., 1949. Estudio crítico de las corrientes marinas del litoral argentino. *Physis* (Buenos Aires) 20, 159–164.
- Balech, E., 1949. Estudio de *Ceratocorys horrida* Stein var. *extensa* Pavillard. *Physis* (Buenos Aires) 20 (57), 165–173.
- Balech, E., 1949. Etude de quelques espèces de *Peridinium*, souvent confondues. *Hydrobiologia* 1 (4), 390–409.
- Balech, E., 1951. Deuxième contribution à la connaissance des *Peridinium*. *Hydrobiologia* 3 (4), 305–330.
- Balech, E., 1951. Sobre dos variedades de *Dinophysis caudata* Kent. *Comunic. Zool. Mus. Hist. Nat. Montevideo* 3 (60), 1–9 (4 lám).
- Balech, E., 1953. El problema del idioma internacional en la ciencia. *Ciencia e Invest. Asoc. Arg. Progr. Cienc.* 9 (5), 235–238.
- Balech, E., 1954. Breves datos sobre la distribución geográfica y estacional del plancton marino de la Argentina. *Rev. Biol. Marina* (Univ. de Chile) 4 (1–2–3), 211–224.
- Balech, E., 1954. Contribución a la terminología zoogeográfica. *Rev. Biol. Marina* (Valparaíso) 4 (1–2–3), 231–238.
- Balech, E., 1954. Sur la tabulation de *Podolampas* et *Oxytoxum*. *Rapp. et Comm. 8° Congr. Int. Bot., Paris*, S. 17, 114–116.
- Balech, E., 1955. Creación de un organismo coordinador de estudios oceanográficos. *Rev. Biol. Marina* (Valparaíso) 6 (1, 2 y 3), 180–182.
- Balech, E., 1956. Étude des dinoflagellés du sable de Roscoff. *Rev. Algol, N. Sér.* 2 (1–2), 29–53.
- Balech, E., 1958. Bioceanografía studoj en Argentino. *Sciencaj Studoj- Intern. Scienca Asoc. Esperantista, Kopenhago*, pp. 221–227.
- Balech, E., 1958. Dinoflagellés et tintinnides de la Terre Adélie (Secteur Français Antarctique). *Récoltes du Dr. Sapin-Jaloustre (1950), du Dr. Cendron (1951) et de M. Prévot (1952) (Missions polaires françaises de P.E. Victor)*. *Vie et Milieu*, 8 (4), 382–408.
- Balech, E., 1958. Evolución general de los estudios de dinoflagelados y tintinoideos. *Symposium sobre Plancton* (S. Paulo, Brasil, Nov. 1955). *Centro Coop. Cient. UNESCO para América Latina, Montevideo, Uruguay*, pp. 5–23.
- Balech, E., 1958. Exploración planctónica del litoral bonaerense. *Symposium de plancton. Centro Coop. Cient. de UNESCO para América Latina*, pp. 25–31.
- Balech, E., 1958. Los dinoflagelados y tintinoideos como indicadores oceanográficos. *Symposium sobre Plancton* (S. Paulo, Brasil, Nov. 1955). *Centro Coop. Cient. UNESCO para América Latina, Montevideo, Uruguay*, pp. 33–36.
- Balech, E., 1958. Plancton de la Campaña Antártica Argentina 1954–1955. *Physis* (Buenos Aires) 21, 75–108.
- Balech, E., 1959. Operación oceanográfica Merluza. *V Crucero. Plancton. Serv. Hidrogr. Naval* (Argentina) H 618, 1–43.
- Balech, E., 1959. The changes in the phytoplankton population off the California coast. *CALCOFI Rep.* 7, 127–132.
- Balech, E., 1959. Two new genera of dinoflagellates from California. *Biol. Bull.* 116 (2), 195–203.
- Balech, E., 1959. Tintinoidea del Mediterráneo. *Trab Inst. Español Oceanogr.* 28, 1–88.
- Balech, E., 1961. *Glenodinium cristatum*, sp. nov. (Dinoflagellatae). *Neotropica* 7, 47–51.

- Balech, E., 1961. Nótula sobre *Peridinium* (Dinoflagellata). Neotropica 7 (22), 29–32.
- Balech, E., 1962. Nótulas de la Estación Hidrobiológica de Puerto Quequén. Rev. Mus. Arg. Cs. Nat. "B. Rivadavia", C. Zool. 8 (6), 81–87.
- Balech, E., 1962. Plancton de las campañas oceanográficas Drake I y II. Serv. Hidrogr. Naval (Argentina) H 627, 1–57.
- Balech, E., 1962. Tintinoinea y Dinoflagellata del Pacífico según material de las expediciones Norpac y Downwind del Instituto Scripps de Oceanografía. Rev. Mus. Arg. Cs. Nat. "B. Rivadavia", C. Zool. 7 (1), 1–253 (26 lám).
- Balech, E., 1962. Factores ambientales determinantes de las migraciones. Factores biológicos. Rev. Inst. Inv. Pesq. (Montevideo) 1 (2), 123–131.
- Balech, E., 1963. La familia Podolampacea (Dinoflagellata). Bol. Inst. Biol. Marina (Mar del Plata) 2, 1–27 (3 lám).
- Balech, E., 1964. Caracteres biogeográficos de la Argentina y Uruguay. Bol. Inst. Biol. Marina (Mar del Plata) 7, 107–112.
- Balech, E., 1964. El género *Cladopyxis* (Dinoflagellata). Comunic. Mus. Arg. Cs. Nat. "B. Rivadavia", Hidrobiol. 1 (4), 27–40.
- Balech, E., 1964. El plancton de Mar del Plata durante el período 1961–1962. Bol. Inst. Biol. Marina (Mar del Plata) 4, 1–49 (5 lám).
- Balech, E., 1964. Tercera contribución al conocimiento del género *Peridinium*. Rev. Mus. Arg. Cs. Nat. "B. Rivadavia", Hidrobiol. 1 (6), 179–195 (3 lám).
- Balech, E., Ferrando, H.J., 1964. Fitoplancton Marino. EUDEBA, Buenos Aires, 155 pp.
- Balech, E., 1964. Los estudios fitoplanctónicos regionales. Estado actual en Latinoamérica y normas a seguir. Rev. Inst. Inv. Pesq. (Montevideo) 1 (3), 243–248.
- Balech, E., El-Sayed, S.Z., 1965. Microplankton of the Weddell Sea. In: Biology of the Antarctic Seas II. Antarctic Res. Ser. 5, 107–124.
- Balech, E., 1965. Nuevas contribuciones a los esquemas de circulación oceánica frente a la Argentina. An. Acad. Brasileira Cs., Supl. 37, 159–166.
- Balech, E., Oliveira Soares, L. de, 1966. Dos dinoflagelados de la Bahía de Guanabara y proximidades (Brasil). Neotropica 12 (39), 103–109.
- Lackey, J.B., Balech E., 1966. A new marine tintinnid. Trans. Am. Microsc. Soc. 85 (4), 575–578.
- Balech, E., 1966. Dos dinoflagelados de la Bahía de Guanabara y proximidades (Brasil). Neotropica 12 (39), 103–109.
- Balech, E., 1967. Dinoflagelados nuevos o interesantes del Golfo de México y Caribe. Rev. Mus. Arg. Cs. Nat. "B. Rivadavia", Hidrobiol. 2 (3), 77–144.
- Balech, E., 1967. Dinoflagellates and tintinnids in the north-eastern Gulf of Mexico. Bull. Mar. Sci. 17 (2), 280–298.
- Balech, E., 1967. Observaciones sobre dinoflagelados fósiles. Comunic. Mus. Arg. Cs. Nat. "B. Rivadavia", Paleontología 1 (2), 5–20.
- Balech, E., 1967. *Palaephalacroma* Schiller, otro miembro de la Familia Cladopyxidae (Dinoflagellata). Neotropica 13 (42), 105–112.
- Balech, E., 1968. Algunas especies nuevas o interesantes de tintinnidos del Golfo de México y Caribe. Rev. Museo Arg. Cs. Nat. "B. Rivadavia", Hidrobiol. 2 (5), 165–197 (4 lám).
- Balech, E., 1968. Dinoflagellates. In: Bushnell, V.C., El-Sayed, S.Z. (Eds.), Primary productivity and benthic marine algae of the Antarctic and Subantarctic. Am. Geogr. Soc., Antarctic Map Folio Series, Fol. 10, 8–9 (Plates 11–12).
- Balech, E., El-Sayed, S.Z., Hasle, G., Neushul, M., Zaneveld, J.S., 1968. Primary productivity and benthic marine algae of the Antarctic and SubAntarctic. Am. Geogr. Soc., Antarctic Map Folio Ser., Folio 10, 1–15.
- Hermosilla, J., Balech, E. 1969. Un interesante *Peridinium* de tabulación anormal. Neotropica 15 (46), 9–13.
- Balech, E., 1970. The distribution and endemism of some Antarctic microplankters. In: M.W. Holdgate (Ed.), Antarctic Ecology, vol. 1. Academic Press, New York, pp. 143–146.
- Balech, E., 1971. Dinoflagelados y tintinnidos del Golfo de México y Caribe: sus relaciones con el Atlántico ecuatorial. Symp. Inv. Caribbean and Adjacent Regions, UNESCO, pp. 297–301.
- Balech, E., 1971. La variedad y el Código de Nomenclatura Zoológica. Neotropica 17 (54), 105–106.
- Balech, E., 1971. Microplancton de la campaña oceanográfica Productividad III. Rev. Mus. Arg. Cs. Nat. "B. Rivadavia", Hidrobiol. 3 (1), 1–202 (39 lám).
- Balech, E., 1971. Microplancton del Atlántico Ecuatorial Oeste (Equalant I). Serv. Hidrogr. Naval (Argentina) H 654, 1–103 (12 lám).
- Balech, E., 1971. Notas históricas y críticas de la oceanografía biológica argentina. Serv. Hidrogr. Naval (Argentina) H 1027, 57.
- Balech, E., 1972. Los tintinnidos indicadores de afloramientos de aguas (Ciliata). Physis (Buenos Aires) 31 (83), 519–528.
- Balech, E., 1973. Cuarta contribución al conocimiento del género *Protoperidinium*. Rev. Mus. Arg. Cs. Nat. "B. Rivadavia", Hidrobiol. 3 (5), 347–368 (6 lám).
- Balech, E., 1973. Segunda contribución al conocimiento del microplancton del Mar de Bellingshausen. Contrib. Inst. Antártico Argentino 107, 1–63.
- Balech, E., 1974. El género *Protoperidinium* Bergh, 1881 (*Peridinium* Ehrenberg, 1831, *partim*). Rev. Mus. Arg. Cs. Nat. "B. Rivadavia", Hidrobiol. 4 (1), 1–79.
- Balech, E., 1975. Estructuras de *Protoperidinium* en microscopía electrónica de barrido (Protozoa - Dinoflagellata). Neotropica 21 (64), 20–25 (2 lám).
- Balech, E., 1976. Clave ilustrada de dinoflagelados antárticos. Publ. Inst. Antártico Argentino 11, 1–99.
- Balech, E., 1976. Fitoplancton de la Campaña Convergencia 1973. Physis (Buenos Aires), Secc. A 35 (90), 47–58.
- Balech, E., 1976. La distribución de algunos microplancteres en el Atlántico sudoeste. Bol. Serv. Hidrogr. Naval (Argentina) 12 (2/3), 15–24.
- Balech, E., 1976. Notas sobre el género *Dinophysis* (Dinoflagellata). Physis (Buenos Aires), Secc. A 35 (91), 183–193.
- Balech, E., 1976. Some norwegian *Dinophysis* species (Dinoflagellata). Sarsia 61, 75–94.
- Balech, E., 1976. Sur quelques *Protoperidinium* (Dinoflagellata) du Golfe de Lion. Vie et Milieu, Ser. B 26 (1), 27–46.
- Balech, E., Rojas de Mendiola, B., 1977. Un nuevo *Gonyaulax* productor de hemotalasia en Perú (Protozoa, Dinoflagellata). Neotropica 23 (69), 49–54.
- Balech, E., 1977. Introducción al fitoplancton marino. Manuales, EUDEBA (Buenos Aires), 211 pp.
- Balech, E., 1977. Cuatro especies de *Gonyaulax sensu lato*, y consideraciones sobre el género (Dinoflagellata). Rev. Mus. Arg. Cs. Nat. "B. Rivadavia", Hidrobiol. 5 (6), 115–143.
- Balech, E., 1977. Estructura de *Amphisolenia bidentata* Schröder (Dinoflagellata). Physis (Buenos Aires), Secc. A 37 (93), 25–32.
- Steidinger, K.A., Balech, E., 1977. *Scrippsiella subsalsa*, comb. nov. (Dinophyceae) with a discussion on *Scrippsiella*. Phycologia 16 (1), 69–73.
- Balech, E., 1978 (1979). El género *Pyrophacus* Stein (Dinoflagellata). Physis (Buenos Aires), Secc. A 38 (94), 27–38.
- Balech, E., 1978. Microplancton de la campaña Productividad IV. Rev. Mus. Arg. Cs. Nat. "B. Rivadavia", Hidrobiol. 5 (7), 137–201 (9 lám).

- Balech, E., 1978. *Protoperidinium* (*Archaeoperidinium*) *mendiolae* n. sp. *Neotropica* 24 (71), 3–7.
- Balech, E., 1978. Geocidio. La destrucción del planeta. Ediciones De La Flor SRL, Buenos Aires, 301 pp.
- Balech, E., 1979. Dinoflagelados. Campaña oceanográfica argentina Islas Orcadas 06/75. Serv. Hidrogr. Naval (Argentina) H 655, 1–76 (10 lám).
- Balech, E., 1979. El género *Goniodoma* Stein (Dinoflagellata). *Lilloa* 35 (2), 97–109.
- Balech, E., 1979. Tres dinoflagelados nuevos o interesantes de aguas brasileñas. *Bol. Inst. Ocean. S. Paulo* 28 (2), 55–64.
- Balech, E., 1980. On thecal morphology of dinoflagellates with special emphasis on cingular and sulcal plates. *Anal. Centro Cs. Mar y Limnol., Univ. Nac. Autón. Mexico* 7 (1), 57–68.
- Balech, E., Akselman, R., Benavides, H.R., Negri, R.M., 1984. Suplemento a Los Dinoflagelados del Atlántico Sudoccidental. *Rev. Invest. Desarr. Pesq.* 4, 5–20.
- Balech, E., 1985. A revision of *Pyrodinium bahamense* Plate (Dinoflagellata). *Rev. Palaeobot. Palynol.* 45, 17–34.
- Balech, E., Tangen, K., 1985. Morphology and taxonomy of toxic species in the *tamarensis* group (Dinophyceae): *Alexandrium excavatum* (Braarud) comb. nov. and *Alexandrium ostfeldii* (Paulsen) comb. nov. *Sarsia* 70, 333–343.
- Balech, E., 1985. The genus *Alexandrium* or *Gonyayulax* of the *tamarensis* group. In: Anderson, D.M., White, A.W., Baden, D.G. (Eds.), *Toxic Dinoflagellates*. Elsevier Sci. Publ. Co., New York, pp. 33–38.
- Norris, D.R., Bomber, J.W., Balech, E., 1985. Benthic dinoflagellates associated with ciguatera from the Florida keys. I. *Ostreopsis heptagona* sp. nov. In: Anderson, D.M., White, A.W., Baden, D.G. (Eds.), *Toxic Dinoflagellates*. Elsevier Sci. Publ. Co., Inc., New York, pp. 39–44.
- Balech, E., 1986. De nuevo sobre la oceanografía frente a la Argentina. *Serv. Hidrografía Naval (Argentina), Públ. H 645*, 23 pp.
- Balech, E., 1986. Moluscos tóxicos, dinoflagelados y aguas rojas. Actualización de conocimientos. *Anal. Soc. Cient. Argentina*, 213, 61–78.
- Balech, E., 1988. Los dinoflagelados del Atlántico Sudoccidental. *Publ. Espec., Inst. Español Oceanogr.* 1, 310 pp.
- Balech, E., 1988. Dinoflagelados e intoxicaciones humanas. *Anal. Acad. Nac. Cs. Ex. Fís. Nat., Buenos Aires* 40, 41–47.
- Balech, E., 1988. Una especie nueva del género *Fragilidium* (Dinoflagellata) de la bahía de Chamela, Jalisco, México. *An. Inst. Biol. Univ. México (Ser. Zool.)* 58, 479–486.
- Balech, E., Akselman, R., 1988. Un nuevo *Diplopsaliinae* (Dinoflagellatae) de Patagonia, Argentina. *Physis (Buenos Aires)*, A 46 (110), 27–30.
- Balech, E., 1989. Redescription of *Alexandrium minutum* Halim (Dinophyceae) type species of the genus *Alexandrium*. *Phycologia* 28 (2), 206–211.
- Balech, E., 1990. Four new dinoflagellates. *Helgoländer Meeresunters.* 44, 387–396.
- Balech, E., Borgese, B., 1990. *Diplopsalopsis latipeltata*, una nueva especie de Dinoflagellata. *Anal. Acad. Nac. Cs. Ex. Fís. Nat. Buenos Aires* 42, 251–255.
- Balech, E., 1990. A short diagnostic description of *Alexandrium*. In: Graneli, E. et al. (Eds.), *Toxic Marine Phytoplankton*. Elsevier Sci. Publ. Co., Inc., New York, p. 77.
- Faust, M., Balech, E., 1993. A further SEM study of marine benthic dinoflagellates from a mangrove island, Twin Cays, Belize, including *Plagiodinium belizeanum* gen. et sp. nov. *J. Phycol.* 29, 826–832.
- Balech, E., 1994. Contribución a la taxinomia y nomenclatura del género *Protoperidinium* (Dinoflagellata). *Rev. Mus. Arg. Cs. Nat. "B. Rivadavia"*, *Hidrobiol.* 7 (4), 61–80.
- Anderson, D. M., Kulis, D. M., Doucette, G. J., Gallagher, J. C., Balech, E. 1994. Biogeography of toxic dinoflagellates in the genus *Alexandrium* from the northeastern United States and Canada. *Mar. Biol.* 120, 467–78.
- Balech, E., 1994. Three new species of the genus *Alexandrium* (Dinoflagellata). *Trans. Am. Microsc. Soc.* 113 (2), 216–220.
- Balech, E., 1995. The genus *Alexandrium* Halim (Dinoflagellata). *Publ. Sherkin Is. Mar. Station, Sherkin Island, Co. Cork, Ireland*, 151 pp.
- Balech, E., 1996. Porvenir de las pesquerías argentinas visto a través de experiencias mundiales. *Bol. Centro Naval (Argentina)* 114 (783), 579–584.
- Balech, E., 1999. *Protoperidinium* (Dinoflagellata) nuevos o interesantes de la Bahía de Manila (Filipinas). *Rev. Mus. Arg. Cs. Nat. n.s.* 1 (2), 165–171.
- Balech, E., 2002. Dinoflagelados tóxicos en el Cono Sur Americano. In: Sar, E.A., Ferrario, M.E., Reguera, B. (Eds.), *Floraciones Algales Nocivas en el Cono Sur Americano*. Instituto Español de Oceanografía, pp. 123–144.
- Balech, E., 2002. The race to the destruction of the marine fisheries. The Argentine case. *Sherkin comment* 33, 12–13.

Posthumous

Balech, E., Ehrlich, M.D., in press. Esquema biogeográfico del Mar Argentino. *Rev. Invest. Desarr. Pesq.* 19.

[SS]

Rut Akselman
INIDEP, Mar del Plata, Argentina

Santiago Fraga
IEO, Vigo, Spain

Karen Steidinger*
FIO/FWC, St. Petersburg, FL, USA

*Corresponding author

E-mail address: Karen.Steidinger@MyFWC.com
(K. Steidinger)