



Professor CREU CASAS I SICART (1913–2007)*

Creu Casas i Sicart, Professor Emeritus at the Autonomous University of Barcelona, Catalonia, and a member of the Institute of Catalan Studies (IEC) since 1978, died at the advanced yet still active age of 94 in Bellaterra on 20 May 2007, after a brief illness. She was unquestionably the most prominent botanist in the field of bryological research (mosses, liverworts, and hornworts) covering the entire Iberian Peninsula and Balearic Islands in the past 50 years. She also served as the president (1980–1982) of one of the most prestigious affiliates of our institute, the Catalan Institution of Natural History.

Creu Casas was born in Barcelona on 5 May 1913 to a modest family. Her father was a gardener, and around 1917 he began to work for the benefactor and bibliophile Rafael Patxot, in an annex of the house where the family eventually lived. Her father was in charge of caring for Patxot's gardens and other properties, one of them on Montseny mountain. The young Creu's interest in the plant world began to take shape in this atmosphere of gardens, gardeners, and visitors from the world of culture.

Her training was ambitious for the time thanks to her father, the economic support of the Patxot family, and her work as a private tutor in the summer (in the Maresme region and Mallorca). She was educated at the *Institut Tècnic Eulàlia* (Eulàlia Technical Institute) and then went on to study pharmacy

(1931–1936) at the University of Barcelona. The latter included sound theoretical and practical training in botany and seemed like a good way to earn a living. Starting in 1933, she briefly benefited from the atmosphere of renewal at the first Autonomous University, particularly as represented by the teachings of Pius Font i Quer (Lleida 1888–Barcelona 1964), then a temporary lecturer and the first botanist to be a member of the IEC. The classes taught by this great botanist, which were both modern and active and included field outings, encouraged Creu Casas' interest in botany. A group of young naturalists, among them, Ramon Margalef, Pere Montserrat, Josep Vives, Guy Lapraz, and Creu Casas herself, began to gather around Font i Quer and the Botanical Institute, which he founded in 1935 and later, after the Spanish Civil War, was continued by Antoni de Bolòs. Font had plans to develop studies in geobotany and cryptogamy in Catalonia. He was in touch with the Faculty of Sciences professors Benito Fernández Riofrío (1896–1942) and Prudenci Seró (1883–1963), and even the great mycologist Rolf Singer joined his team. Seró, a physician who in 1930 had earned a degree in the natural sciences, was the first Adjunct Professor at the Faculty of Sciences and became the professor in charge of botany, from 1942 to 1952. He was the nephew of another botanist, Longí Navàs (1858–1938) and had been influenced by this active lichenologist and entomologist. He also collaborated with the pioneer in Iberian bryology, Antonio Casares Gil (1871–1929). Seró introduced Creu Casas to the world of bryology but, given his disinclination to publish, their joint work was limited to two studies (1956, 1962). Instead, the person who finally exerted a decisive influence on Casas' scientific education was Valia Allorge (1888–1977).

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During the Spanish Civil War, Creu Casas worked in a pharmacy and helped Font i Quer at the Botanical Institute. In the post-war years, she was the manager of a pharmacy in the Clínica de l'Aliança hospital, a job she held for 27 years. With her responsibilities at the pharmacy concentrated to the mornings, her afternoons were free and allowed her to pursue her interests. She had never broken off her ties with either Font i Quer or Antoni de Bolòs. On one of her field outings, on the occasion of a visit by the geobotanist Josias Braun-Blanquet (1947) to Barcelona, she met the Chair of the Department of the Botany of Pharmacy, T. Mariano Losa, who invited her to work with him in identifying the specimens of gramineae of Andorra that he had gathered. She began to do so, without pay, in her free afternoons. Just a few months later, Losa informed her that an Adjunct Professorship in Phanerogamy would soon be available. She prepared for her Bachelor's degree (1949) and passed the civil servant tests to land the job. She remained in this academic position until she moved to the Faculty of Biology at her university as Assistant Professor in Phytogeography, through civil service testing as well. At that time, an Assistant Professor was virtually equivalent to a department Chair. Thus, the year 1967 was pivotal, as Creu Casas was the first woman to reach the top level of university teaching in botany. She was later named to the Chair in Botany (1971), after winning a merit-based competition for the job at the new Autonomous University of Barcelona. Creu Casas was essentially alone on the frontline of what one or two decades later would become a massive influx of women into university teaching and research.

Her choice of research topic was motivated by the lack of knowledge on bryophytes in both Catalonia and in most of the Iberian Peninsula and Balearic Islands, and by her desire to complement her botanical study of Montseny. This mountain had been the subject of the doctoral thesis of Oriol de Bolòs (1924–2007), defended in 1950, which focused on the flora and vegetation of vascular plants. On the recommendation of Font i Quer, she also enlisted the aid of the aforementioned Prudenci Seró, who had brought the field of bryology to Catalonia and was the first Catalan botanist at the university to specialize in a group of plants other than the traditional flowering plants. Casas' thesis was impressive for its quality, especially considering the fact that it was undertaken with few means in terms of books and reference collections. She defended it in Madrid, as required at that time, in 1953; but she had begun to publish bryology studies already in 1951. This was the beginning of a steady flow of output that would total 236 references, including articles and books (93 of them in which she was the sole author). This output was not interrupted but enhanced by her shift to Emeritus Professor status in 1983, as she continued going to her laboratory every morning, brimming with energy and projects and only stopping just a few days before her death.

Just after she joined the Faculty of Biology (UB) in 1967, her first full-time position, she began an intensive career as a teacher, which enabled her to attract valuable students and future research partners. With their help, she planned an extensive study on bryophytes, many of them not well-characterized or virtually unknown, found in the Barcelona urban area. In the new Botany Department, she also pursued her other, ongoing

studies, using already collected material, mainly from the Pyrenees, supplemented with the products of her explorations of the Ebro River basin, especially in the arid semi-steppes of the Monegros region. During the same period, she gathered and categorized all the bibliographic references on Iberian bryophytes. These efforts would serve as the nucleus of future catalogues, bibliographic thesauri, and comprehensive works on the distribution of these species.

In 1971, she moved to the recently founded Autonomous University in Bellaterra as Chair, where she launched and organized the botany program in the Department of Animal Biology, Plant Biology and Ecology. She devoted a great deal of effort to organizing the program as well as to teaching and to establishing a smoothly functioning and productive research team. As mentioned above, as an Emeritus Professor (1983), granted to her when she reached the age of 70, she did not reduce her research efforts; rather the position served as a stimulus for her research and that of her team.

Her contributions to the specialized field of bryology reflect a rigorous research agenda, which included detailed surveys of the Iberian Peninsula and Balearic Islands. In these field studies, she was initially accompanied by her husband, Ramon Puig, or by Prudenci Seró, later by Valia Allorge (Paris) or Cecilia Sérgio (Lisbon), and then by her students and research collaborators. The latter included Montserrat Brugués and Rosa Maria Cros, who worked closely with her and, after her death, have continued her avenue of study. On the Iberian Peninsula, her leadership was solicited and widely appreciated, especially after her *Curset de Briologia* (Short Course on Bryology, UB, 1968), which brought together the majority of botany teachers in training, who were able to fill in the gaps in their limited knowledge of cryptogamy.

This initial core gradually came to specialize in bryology, as reflected in the successive biannual editions of *Reunió de Briòlegs* (Bryologists' Gathering). This series always included the exploration of a seldom studied area of the Iberian Peninsula, in an attempt to complete the bryological knowledge of little-known or totally unexplored regions based on the collections assembled by Casas and her assistants. The first gathering was held in 1972, in the Cabo de Gata Mountains in Almería. Subsequent gatherings were held there and in various areas of interest, such as the Titaguas and the Albarracín mountains, the Gúdar and Javalambre mountains, and the Demanda and Moncayo mountains. Casas faithfully attended the gatherings until 1994, when the 14th meeting was held in the mountains of Cantabria. These explorations have continued, on the initiative of the Spanish Society for Bryology, which Casas co-founded in 1989, serving as its first President (1991–1993) and later as an Honorary Member.

Her students and occasional research partners included researchers from the Catalan-speaking lands such as Víctor Canals, Isabel Alvaro, Josep Peñuelas, Ramon Pérez-Obiol, Francesc Lloret, Llorenç Sáez, and Anna Barrón, along with Felisa Puche (Valencia) and Josep A. Rosselló (Mallorca and Valencia). Others came from the rest of the Iberian Peninsula, including Rosa María Simó (Oviedo), Juan Varo and María Luisa Zafra (Granada), Ester Fuertes (Pamplona and Madrid), Juan

Guerra (Granada and Murcia), Rosa Ros (Murcia), J.A. Gil (Granada), Alicia Ederra and J.C. Báscones (Pamplona), Juan Reinoso (Santiago de Compostela), Manuela Sim-Sim (Lisbon), María Jesús Elías (Salamanca), Patxi Heras and Marta Infante (Vitoria-Gasteiz), Jesús Muñoz (Madrid), Ana Losada and Juana M. González-Mancebo (La Laguna). Indeed, her influence extended to almost all active Iberian bryologists.

Two bryologists who were particularly important to Creu Casas at different times in her career deserve mention of their own. The first is Valentina (Valia) Allorge, née Valentina Sélitzky (1888–1977). She was Russian-born with French nationality and was married to the French bryologist Pierre Allorge (1891–1944), with whom she explored the Iberian Peninsula in 1925, 1927, and 1941. In 1952, Valia Allorge had been invited by Antoni de Bolòs to teach a course at the Botanical Institute, which included outings to Núria, Prades, and the environs of Olot. That course was definitive in Casas' decision to direct her scientific career towards bryophytes. Allorge likely encouraged Casas to present a paper on bryophytes in Catalonia at the International Botany Conference held in Paris in 1954; at that time, it was quite rare for Iberian botanists to attend international forums. Casas' friendship and professional partnership with Valia Allorge was decisive at this early stage in her career, and it allowed her to travel to the Musée de Sciences Naturelles in Paris several times. Valia Allorge was known for her kindness but also for her tenacity and scientific rigor, qualities she shared with Creu Casas.

The second bryologist who strongly influenced Creu Casas was Cecilia Sérgio, a researcher at the Botanical Garden of Lisbon. She supervised the Portuguese sites within the successive projects of the "*Cartografia de Briòfits: Península Ibèrica i les Illes Balears, Canàries, Açores i Madeira*" (Cartography of Bryophytes: Iberian Peninsula and Balearic Islands, Canary Islands, Azores and Madeira). These studies were undertaken with several grants from the IEC (from 1983 until today), whose actions were integrated with those of the University of Lisbon (1982 and 1994). This also allowed Portuguese bryologists to attend the Symposia on Cryptogamy and the aforementioned Bryologists' Gatherings and to publish articles jointly. Sérgio contributed to comprehensive works, such as those on cartography, the red lists, and the floristic surveys published between 2001 and 2009, in addition to her authorship of many articles, starting in 1984.

Also decisive was Creu Casas' intervention in the organization of the Symposia on Cryptogamy, the first of which was held in Pamplona in 1972. These forums promoted interactions among botanists who worked in or had joined the field of cryptogamy. There were soon parallel sessions on mycology, lichenology, phycology, bryology, and pteridology. The symposia, which shortly thereafter became a biannual event (with a few exceptions), exerted a significant influence on the creativity, initiatives, and collaborations among the scientists, almost all of them young, who worked in these fields. In fact, the meetings had such a stimulating effect on their activities that, thanks to the studies published and the experience acquired, in just a few years the number of cryptogamists teaching at universities was almost equal to the number of fanerogamists. Later on,

several of these scientists would also join research organizations, some of which were part of the Spanish National Research Council (CSIC), as well as the staff of museums, nature parks and the Royal Botanic Garden, Madrid. Creu Casas attended the symposia and the Bryologists' Gatherings until quite late in her life (she was 84 and 81 years old, respectively).

Among the initiatives targeted at promoting the study of bryophytes was Casas' sponsorship of the creation of the collective *exsiccata* entitled *Brioteca Hispànica* (in 1969), for which she was the director and the reviewer of the identifications. This collection of samples of prepared and identified bryophytes was published in several volumes and enabled more than 20,000 accurately identified bryophyte specimens to be distributed in different reference herbaria on the Iberian Peninsula, thus boosting the potential for their accurate identification and taxonomic revision. Between 1969 and 2006, Casas periodically published the labels of the distributed species in scientific journals.

In 1989, Casas participated in the founding of the Spanish Bryology Society (SEB), serving as its first President. With around 100 members, most of them very active and their efforts well coordinated, since 1992 the SEB has published a twice-yearly newsletter containing articles on local topics. The actions of Creu Casas and the SEB members have earned significant international attention and have considerably diversified the fields of research. As part of the IEC's Plant Biodiversity project, the ongoing series *Cartografia dels Briòfits* (Cartography of Bryophytes) offers a detailed outline of the distribution of bryophytes on the Iberian Peninsula, Balearic Islands, Canary Islands, Azores, and Madeira. The maps of the first 50 species appeared in 1985, and their presentation is very accurate. Four volumes were published during Casas' lifetime and others are currently in preparation. Reference collections and comprehensive works are essential in studies on biodiversity. These scientific products entail an investment of many hours of work but are often improperly evaluated by the usual standards, designed to fit the experimental and exact sciences. Creu Casas and her team devoted a great deal of effort to the bryophyte reference collection, which contains more than 55,000 samples (Herbari BCB) and is constantly expanding.

She also soon noticed the need for an up-to-date analytic list of the bryology bibliography on the Iberian Peninsula and Balearic Islands, as well as for an annotated catalogue or checklist of the known species that would derive from it. Accordingly, she published *Referències bibliogràfiques sobre la flora briològica hispànica* (Bibliographic References of Hispanic Bryological Flora), again in conjunction with Brugués and Cros, which geographically analyzes the context of each of the above-mentioned studies. This reference work was updated in 1984. Based on its bibliographic sources, the first *Checklist of the Mosses of Spain: An Annotated Checklist* (1981) was developed, followed by several updates (five of them, between 1991 and 2006). In 1998, a complementary volume was added containing the liverworts and hornworts. The comprehensive volume reflected the urgent interest in conserving endangered species, which was a constant fixture in Casas' work. A good example is the first *Lista vermelha dos Briòfitos da Península*

Ibérica (Red List of Bryophytes of the Iberian Peninsula), written in conjunction with Sérgio, Brugués, and Cros and updated in 2006.

The culmination of this service effort was the IEC's publication of the two volumes of the *Flora dels Briòfits dels Països Catalans* (Flora of the Bryophytes of the Catalan Countries) in conjunction with Brugués and Cros, which featured the painstakingly meticulous drawings by Anna Barrón and Iolanda Filella. The first volume, *Mosses* (Mosses, 2001, sold out shortly after its introduction and was subsequently reissued; it received the Serra d'Or Critics' Prize in 2001. The second was devoted to *Hepàtiques i Antocerotes* (Liverworts and Hornworts, 2004). In our opinion, the two volumes comprise a paragon of excellence, not to mention their extraordinary usefulness.

The known bryophytes in the Catalan-speaking lands account for 85 % of all bryophytes on the Iberian Peninsula. Casas and Cecilia Sérgio decided to publish a *Handbook of Mosses of the Iberian Peninsula and Balearic Islands*, also with the IEC but in English. The volume *Mosses* was issued in 2006 and *The Handbook of Liverworts and Hornworts of the Iberian Peninsula and Balearic Islands* in 2009. These comprehensive volumes represent the legacy of a lifetime devoted to bryophytes and have proven to be extremely useful for a diverse group of international naturalists.

Creu Casas' work has been recognized in numerous ways. Early on, she was a member of the *Bryophytes Commission* of OPTIMA (Organization for the Pytotaxonomic Investigation of the Mediterranean Area). In 1980, she became the Spanish representative in the Workgroup for Mapping the Bryophytes of Europe and the *Société d'Échange de Muscinées*. In 1983, she won the Narcís Monturiol Medal for Scientific Merit, and in 2002 she was awarded the 13th Prize from the Catalan Research Foundation.

Particularly worth noting is Creu Casas' role in the gradual process of gender equilibrium in academia and research. She skillfully combined a career as a pharmacist, scientist, teacher, and manager with the roles of a wife, homemaker, mother, and, later, grandmother. She was the first woman in the history of Spain to sit for the civil service tests for a professorship in Pharmacy (1967), and later the first to secure a Chair in Botany (1971). Likewise, she was also the first female member of the IEC (1978); there would not be another until 1989, when Mercè Durfort was granted membership. In 1981, Casas was appointed a full member of the Royal Academy of Pharmacy of Catalonia, of which she had been a corresponding member since 1958. She served as the President of the Catalan Natural History Institution (1980–1982), which named her an Honorary Member in 2002, and of the Spanish Bryology Association (1991–1992).

A glance at the list of her publications (see below) reveals the breadth of her life's work (236 entries, including articles, book chapters, and books). Many of these works focus on the bryology of the Iberian Peninsula and Balearic Islands, with studies on corology, systematics, taxonomy, and autoecology. There are also numerous comprehensive volumes, including those mentioned above, all written with a sense of deep commitment to her chosen field. From a geographic standpoint, the contri-

butions of Creu Casas revolve around the Pyrenees, Montseny, the Cap de Creus and Albera Nature Parks, the islands, the Monegros region, the city of Barcelona and the Collserola Park, the Cabo de Gata Nature Park and other areas of Andalusia, and also Montserrat, Titaguas, the Albarracín Mountains and other mountain chains on the Iberian Peninsula.

In addition to her body of work, we are left with her example as a tireless, tenacious scientist, convinced of the importance of her efforts, as well as a valued teacher and an inspiring mentor for new scientists. Her apparent fragility and delicate manners belied her strength, further evidenced by activities in her field of research until just a few days before her death.

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