

Daniel H. Burckhardt at 70—an appreciation

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PD Dr Daniel H. Burckhardt (Figs 1–4) turned 70 on 26 July 2023.

His extensive body of work on the taxonomy of insects, initiated even before his doctoral thesis on Western Palaearctic Aphalaridae in 1983, has since expanded to encompass all major psyllid groups (Hemiptera:

Sternorrhyncha: Psylloidea), both extant and extinct, but also moss bugs (Hemiptera: Coleorrhyncha) and several families of beetles (Coleoptera, mainly Passandridae, but also Jacobsoniidae, Pterogeniidae and Staphylinidae). These contributions have had a profound and lasting impact on our global understanding of these relatively small and often overlooked groups of insects.

The biographical details of Daniel Burckhardt's career and life will not be revisited here, as they have already been thoroughly documented elsewhere. In terms of his tireless dedication and remarkable productivity, the comprehensive list of his publications at the end of this article speaks for itself.

Another telling measure of his influence within entomology is the number of PhD students he has mentored, formally or informally, many of whom have gone on to establish successful careers in leading research institutions and natural history museums across Europe and beyond. At a time when taxonomic expertise is rapidly declining, with serious implications for biodiversity research, agriculture and conservation, his intellectual legacy, marked by rigour, precision, and clarity, has been effectively passed on to the next generation.

This tribute aims above all to highlight the personal and professional impact Daniel Burckhardt has had on so many colleagues and collaborators. Rather than a conventional biography, it offers a space for those who have worked with him to share their experiences and anecdotes, and to reflect on the influence he has had on their scientific journeys.

Life and professional activities: an update from 2003

Lauterer & Mühlethaler (2003) published a biographical overview on the occasion of Daniel Burckhardt's 50th birthday. Readers interested in his early life, background, and personal and professional development are encouraged to consult that publication.



FIGURE 1. Daniel Burckhardt (right) and Dalva L. Queiroz (left) collecting psyllids at the 9th European Hemiptera Congress, Kurdějov, Czech Republic, 2023.

Since 2003, Daniel Burckhardt has continued to contribute prolifically to entomological research, publishing dozens of scientific papers. He retired from his position as curator of entomology in the Department of Biosciences at the Natural History Museum Basel (NHMB), as well as from his role as *Privatdozent* at the University of Basel, at the end of 2015. Since 2016, he holds the title of emeritus curator of entomology at the NHMB. He is also Editor of *Fauna Helvetica*, Honorary Member of the Swiss Entomological Society and the Argentinian Entomological Society and President of the Entomological Society of Basel (that he joined in 1969).

Over the past two decades, his research has shown a renewed and growing interest in the Brazilian fauna (Fig. 2), effectively creating a temporal bridge to his early, seminal studies on the temperate Neotropical region conducted during his postdoctoral fellowship at Liverpool Polytechnic (Liverpool, UK), under the Royal Society's European Science Exchange Programme (Burckhardt 1987a, 1987b, 1988).



FIGURE 2. Daniel Burckhardt in the Parque Estadual do Biribiri, Brazil, 2019.

Among his most cited works since 2003 are the two successive classifications of the superfamily Psylloidea, which include comprehensive lists of all genera and their synonyms (Burckhardt & Ouvrard 2012; Burckhardt *et al.* 2021), and a widely referenced clarification of the term “host plant,” which has found application well beyond psyllid research (Burckhardt *et al.* 2014).

In addition, Daniel Burckhardt has authored several substantial faunistic checklists and taxonomic revisions, often exceeding 70 pages, and describing numerous new taxa. These include recent collaborations and publications such as Bastin *et al.* (2023), Burckhardt (2009), Burckhardt & Queiroz (2020), Cho *et al.* (2022), Halbert & Burckhardt (2020), Malenovsky & Burckhardt (2009), Serbina & Burckhardt (2017) and Serbina *et al.* (2025).

Testimonies and personal anecdotes

DO. I first met Daniel Burckhardt at the NHMB in the late 1990s, at the very beginning of my PhD. At the time, David Mifsud was completing his doctorate there under Daniel’s supervision. Like many psyllid researchers, my “pilgrimage” to Basel had a profound impact on me. Warmly hosted at Daniel’s parents (needless to say, Swiss hotel prices were far from student-friendly, at least for a French one), I quickly realized the immense depth of Daniel’s knowledge about the obscure group of insects I was about to study for the next three years (a group I’m still working on, 25 years later!). It became immediately clear that he would be the most competent referee of my work.

Three years later, Daniel was part of my thesis defence jury, and our collaboration has continued ever since. I later had the privilege of spending two years at the NHMB as a Marie Curie EU post-doctoral fellow, sharing the “Mammutzimmer” with Roland Mühlethaler and Angelo Bolzern, and often meeting Daniel in the legendary “Burckhardtorium” (see Lauterer & Mühlethaler 2003).

Every time I speak with Daniel, I feel as though I’m saving an enormous amount of time, solving problems in minutes that might otherwise have taken me weeks. However, it is in my role as subject editor for the journal *Zootaxa* that I would particularly like to share my experience. It won’t offend anyone to say that the quality of manuscripts submitted in the three groups I cover (Aphidomorpha, Psylloidea, Aleyrodidae) can vary widely. Yet one thing remains consistent: the manuscripts submitted by Daniel always stand out, for their impeccable formatting and scientific clarity alike.

Over the years, this rare combination of rigour and lucidity has become my benchmark. I must confess: very few manuscripts manage to meet what I now call the “Burckhardt standard.” But then again: nobody’s perfect...

LŠS. I met Daniel for the first time in 2011, while I was still doing my Master's in Sweden. I came to visit him in Basel for several days with my very modest and mostly misidentified collection of psyllids, hoping to persuade him to become my PhD supervisor. I was astonished by his hospitality: he kindly invited me to stay at his home (which resembled a castle more than a house), where we spent the evenings sharing wine and conversation. I was also incredibly lucky to be invited to a rehearsal of the band where Daniel played guitar. Our time at the museum was intense, as I slowly realized that very few of my specimens were identified correctly. I eventually stopped asking whether he would consider supervising me, because I was convinced I had completely failed. But then, unexpectedly, Daniel asked something I'll never forget: "So, Liliya, do you think you would survive a PhD with me?" I could hardly believe my ears. Needless to say, I was heartbroken to return to Sweden as I was already looking forward to coming back to Basel, and to Daniel.

From 2013 to 2016, I had the privilege of working under Daniel's supervision during my Ph.D, a time that shaped not only my scientific path but also my personal growth as a taxonomist and researcher. Daniel's support continues to be unwavering: in science, in research and in life. His deep knowledge of psyllid taxonomy, and of life in general, never ceases to amaze and inspire me.

But what makes Daniel truly unforgettable is his unique charisma, rooted in a sharp intellect and a brilliant sense of humour. Anyone who has worked closely with him will recall the countless funny and warm moments we shared, the moments that reveal just how human and approachable he is, even in the most serious scientific settings.

A few of these anecdotes remain engraved in my memory. Once, in a rush to share my results, I emailed Daniel an Excel table of psyllid records and accidentally wrote: "I am sending you this shit", instead of "sheet". His reply came without missing a beat: "Liliya, it's not as bad as you describe". Another time, I nervously presented him with a gift from Belarus, my home country. It was carefully packed in decorative paper, and I wanted to say that I had wrapped it for him, but my English was still a work in progress, and instead I told him, "I raped it for you". With a twinkle in his eye, he said, "You really shouldn't have". And during the Hemiptera Congress in 2023 in Kurdějov (Fig. 1), while I was passionately sharing stories with younger colleagues, I meant to say I was acting as their "coach", but said "couch" instead. Daniel, witty as always, looked at me and commented: "Liliya, you are not there yet".

These memories, and so many more, make working with Daniel not only a professional honour, but a joyful experience. I remain deeply grateful for his mentorship, his kindness and his humour.

AA. Although I never met Daniel in person, his deep scientific knowledge and friendliness left an impression on me early on my career. I am by no means an expert on psyllids. Living and working on Madeira Island in the early 1990s (still am), I was the only entomologist working for the local government. As I had to deal with all the groups of insects that passed through my hands, sometimes some really interesting ones would appear. In one of these cases, a botanical colleague brought me branches of a very rare tree from the native laurel forest, *Pittosporum coriaceum*, on whose leaves very evident galls could be seen. After a detailed analysis I verified the presence of two different species of psyllids, which I was unable to identify with the bibliography available to me. Contacts I had at the time at the Natural History Museum in London confirmed to me that both species were unknown, new to science. I decided to describe them myself and when the manuscript was ready I suggested Daniel to the Editor of the chosen journal, as one of the possible reviewers. Daniel's corrections and suggestions ended up improving the manuscript a lot, with the addition of another undescribed species from the Canary Islands that apparently belonged to the same group from material deposited in the collection he curated (Aguiar, 2001). This episode was very important for me, as I met a top specialist, extremely competent and friendly at the same time, and it gave me the confidence to continue until today.

JD. In 2011, I received an email from Daniel inviting me to collaborate on a psyllid project. I was very surprised but also honoured by this proposal, and of course, I said yes. I knew Daniel from his publications and a few earlier emails, but not personally. I came to Basel for a week and stayed at Daniel's house. Then, I visited Basel again in 2013 and stayed with Daniel for another week. Those were the most scientifically fruitful two weeks of my life. We started work very early, arriving at the museum at 7:00 a.m. Daniel had the key and opened the museum, and we finished our conversation about jumping plant-lice late in the evening, long after dinner, around 11:00 p.m. I had the impression that my dreams were also about psyllids. Everything revolved around psyllids. My time in Basel confirmed my belief that Daniel knows everything about psyllids, plays the guitar very well (Fig. 3), and makes

delicious potato pancakes (I have been making them exactly the same way ever since). He's a great guy with a great sense of humour (specific but excellent for me), which made my time in Basel really memorable. Our subsequent collaboration, although at a distance, was also fruitful and just as enjoyable as the previous one. Every time Daniel and I have a project to work on, I look forward to it, knowing that it will be successful, that it will be enjoyable, and that I will learn something new in the process. So, I am looking forward to the following projects we will work on, Daniel.



FIGURE 3. Daniel Burckhardt playing the guitar.

SEH. In 1998, Florida acquired *Diaphorina citri* Kuwayama. Although we think the insects arrived here free of pathogens, *Candidatus Liberibacter asiaticus* (CLAs) soon followed by separate introductions. By 2005, huanglongbing (citrus greening disease) was found to be widespread in the southern part of Florida, with devastating consequences. As the Florida state identifier assigned to psyllids, I realized shortly after *D. citri* arrived that I needed to learn Florida psyllids. Soon after huanglongbing was found in Florida, more pathosystems with psyllid vectors were reported around the world, increasing my motivation to know which psyllids were in Florida and which exotic psyllids and accompanying plant pathogens should be on my radar. Thus began my collaboration with Daniel Burckhardt.

As chance would have it, the early 2000s saw an influx of new psyllids. Seven adventive species were found for the first time, and four undescribed native ones also were found. Daniel helped us out in each case, identifying and/or confirming each new arrival and ultimately (2020) describing the new ones. We began to make lists of the species in Florida, and I began to learn to recognize them, with Daniel's help.

In 2004, Daniel was able to come to Florida to do some collecting and to work in the Florida State Collection of Arthropods (FSCA) to identify our unknown specimens from around the world. We collected in Miami, especially in Florida's famous botanical gardens. Florida Department of Agriculture and Consumer Services, Division of Plant Industry (DPI) Inspector Gwen Myres was an amazing hostess while we were in Miami, arranging our itinerary to see many different species of psyllids and helping us find food and lodging. Daniel was able to see a living infestation of *Leuronota fagariae*, a species he described from museum specimens in Paraguay in 1988. It was found for the first time since its description making a pest of itself in a nursery in Sarasota, Florida in 2001. By 2004, it was widespread in southern Florida.

Huanglongbing showed up in Miami-Dade County in 2005, and for the next 5–10 years, most my energy was spent trying to understand the disease and figure out viable management. Nonetheless, there were five more newly established psyllids found in Florida during that time period. Daniel was able to help us solve them. One was a species of *Acizzia*. Daniel told us to look on mimusoid legumes, and DPI Inspector Scott Krueger (Naples, FL) found them on their host, *Acacia auriculiformis*, an invasive Australian weed tree. Gary Taylor, University of Adelaide, was contacted, and he had an undescribed species from *Acacia auriculiformis* that matched our “Miami *Acizzia*.” Daniel and Gary described it, *A. convector*, in 2023. (Daniel admonished me that we could not name it after Miami!)

In 2017, Daniel again was able to visit Florida, along with Dalva Queiroz of Brazil. I had acquired a large number of psyllids from a suction trapping project in Brazil that was designed to look at *D. citri* and CLas there. Daniel and Dalva looked through the trap collections, leaving identified reference specimens for the FSCA. Our trapping project probably has the first record of *Russelliana solanicola* in Brazil. It is native to Peru and adventive in Brazil and is a serious potential threat to several crops.

Daniel was able to spend more time in 2017 looking at the FSCA. We found more specimens of several Florida species and further organized the FSCA collections and our lists of Florida species. The result was a monograph published in 2020 on the psyllids of Florida. Besides the species known to occur in Florida, it includes several potential pests that we at DPI, a regulatory agency, are watching for.

Quite frequently, we intercept psyllids from Western states and elsewhere. Identifications are needed quickly, because cargo may be on hold, pending results, which determine whether the shipment is allowed into the state. In many cases, Daniel was able to identify hitchhikers from photographs. In other cases, the FSCA specimens Daniel identified allowed me to make timely determinations.

I am very grateful to Daniel for all his help over the past 2+ decades. I am thankful that he was able to come to Florida and help us solve many taxonomic issues with our psyllids, both native and adventive. I treasure his friendship and collaboration.

AR. A letter to Daniel... Dear Daniel, with great pleasure and personal joy I offer my hearty felicitations and greetings to you on reaching 70.

I well remember the pleasant days I first got to know you, on my just completion of my PhD thesis on gall-inducing Tubulifera (Thysanoptera). When I later shifted to studying the Indian Psylloidea, in the 1980s, I first got to know Ian Hodkinson (Liverpool), and later got to know you. You will remember Daniel, that our camaraderie and friendship got strongly cemented. When I travelled to the Universität Heidelberg in 1990 to execute my post-doc assignment with Rolf Beiderbeck, you will recall that you travelled to Heidelberg visiting us for a day. I cannot forget the pleasant conversations we then had sharing many a cultural detail of India and Switzerland. A splendid time. Our friendship grew strongly and when I launched the book project *Biology, Ecology, and Evolution of Gall-inducing Arthropods* in 2003 and published in 2005, you graciously wrote the chapter on gall-inducing Psylloidea, obliging my request.

When Man-Miao (Yang) came to work with you to complete the Psylloidea of Taiwan monograph with you, I could speak to my graduate-study supervisor Odette Rohfritsch (*Laboratoire de Cécidologie, Institut de Botanique, Université Louis Pasteur, Strasbourg*) to visit your laboratory at the *Muséum d'Histoire Naturelle*, Geneva to meet you and Man-Miao. Odette later wrote to me that she enjoyed visiting you and incidentally meeting Man-Miao.

At the University of Sydney (later, Charles Sturt University, CSU), Orange, New South Wales (NSW), Australia, I gained immense knowledge interacting with you since at that time, my research group and I were intently looking at the ecology and physiology of the free-living, lerp-forming, and gall-inducing Aphalaridae of Central-Western Tablelands, NSW. I was so honoured to receive you at CSU—Orange in late 2000s, when you spoke to me about your new entomological interest, the Coleorrhyncha. This sharing excited me intensely because of their relationships with the Bryophyta and lichens. All of that included a wonderful time of sharing knowledge.

Dear Daniel, I will earnestly hope and wish that you a wonderfully productive future contributing further to the understanding of global Psylloidea and Coleorrhyncha. I will always admire your sobriety and genteelness to everyone around you and needless to say I am one of the beneficiaries of your great human qualities.

My wife Latha and our daughter Ramya—who know you well and remember you well—join me in wishing you a healthy and productive life. With warm greetings and good wishes.

AS. I met Daniel during my PhD with A. Raman at Charles Sturt University, Orange, New South Wales (NSW), in Australia, though I was already familiar with his work through several of his publications, which helped me better understand the world of Psylloidea. During his visit to Orange, NSW, I had the opportunity to accompany him on specimen-collecting trips in and around the area. I was struck by Daniel's humility and sense of humor, and it was truly a privilege to spend time in the field with him.

On one such trip, after finishing our collection, I realized I had lost the car key. I began to panic, as we had swept multiple *Eucalyptus* trees in a park with thick grass, making the search daunting. Calmly, Daniel advised me to check beneath the canopies of three specific trees, explaining that researchers often develop habitual patterns—and he personally tends to sit under the canopy while examining specimens from his net. Sure enough, I found the key beneath one of those trees within minutes. It was a simple but memorable lesson in mindfulness and observation. That brief visit left a lasting impression and shaped my early development as a researcher.

Later, as I collaborated with Daniel on various publications, I continued to be inspired by his meticulous and disciplined approach to research.

ZM. At the beginning of 2022, I found myself at the South African National Collection of Insects (SANC), and my new role was to be curator of a magnificent Sternorrhyncha collection. The only problem was that this was a new group to me, and no one could point me to any mentors as my predecessor had retired before my start and was understandably tired after 42 years of work. After many months of fumbling around with the Aphidoidea and Coccoidea, I had the daunting task of starting with Psylloidea, and I had no clue where to begin. Often, I saw Daniel's name on the curated specimens of the collection and the accession books, but I had never met him. This is where I got introduced to Daniel by a close collaborator and friend, Evans Mauda. In October 2022, Daniel was visiting South Africa and working with Evans, when they came to visit what I now call “my” collection at the SANC. This two-week visit turned out to be a saving grace to get me started on this unique group of insects. Daniel generously shared with me the material he used to train those interested in psyllid work and also provided valuable keys to get this “greenhorn” started on the exciting journey into the world of psyllids. That initial visit, although short, proved very helpful, and this was not his last visit.

Daniel again visited the SANC for six weeks in 2024, where we worked on the collection during that time, tackling the *Diaphorina* group. I got some time to pick his brain as much as I could, and this accelerated me in my work. Often, we would be seen in the morning making a beeline for the bush surrounding the SANC, the master and his young apprentice, nets in hand, bashing away at the bushes, gleaned the psyllid stragglers late into the season. We got used to the awkward stares of people driving in for work, as they wondered in what I hope was “amazement and awe” of our nets on long poles reaching well into the tree canopy.

Many moments of humour were often uttered with his hushed voice and punctuated by an occasional “Excellent!!” as we carried on with our work, some of the greatest field moments I have had. His humour often enthralled the ladies in my team, as they absolutely enjoyed his company, and to date, often ask about him, I can say, he is popular with the ladies. I heard many a story of how Daniel was always eager to tell curious passersby about how wonderful psyllids were (after emerging from his collecting net) and how he would bore them to death with all the amazing stories. I will be forever grateful to Daniel for his mentorship and patience that has helped me find my feet in the world of psyllids.

EM. I first met Daniel Burckhardt at Citrus Research International (CRI) in South Africa in 2021, at the very beginning of my work on psyllids under the Biosecurity Division. At the time, Aruna Manrakhan was in contact with Daniel, and we had sent him *Diaphorina* specimens from various southern African regions. These had been caught using yellow sticky traps during monitoring efforts for the Asian citrus psyllid, *Diaphorina citri*.

Soon after, Daniel and I embarked on fieldwork together, collecting psyllids across different parts of South Africa. We also spent a few days at the National Collection of Insects (NCI). It was during this time that I realised Daniel was the ideal person to guide me in my newfound fascination with psyllids. His deep knowledge, patience, and storytelling made every interaction not only educational but a true pleasure. Since that first meeting, it has been nothing short of *pure joy* to work alongside him and hear about his many past and ongoing survey adventures.

I consider myself incredibly fortunate to have met Daniel and to continue learning from him through our ongoing collaboration. One such collaboration is the South African *Diaphorina* Taxonomic Initiative (SADITI)—a name that was born during a brainstorming session at NCI in 2024, while discussing future partnerships with another outstanding collaborator, Liliya Serbina.

Every time I speak of Daniel, I am filled with joy and pride at having met a legend in my time. His wisdom continues to guide me, and I often find myself drawing on his advice in my work. Daniel has a rare kind of humour—sharp, dry, and unforgettable—the kind that has you chuckling to yourself long after the moment has passed.

One of my fondest memories with Daniel was during a survey we conducted in 2021. We decided to spend the weekend on a safari in South Africa's iconic Kruger National Park. Now, when hosting an international guest of Daniel's calibre, the last thing you want is to have *car problems* in the middle of one of the largest wildlife reserves in the world—especially with the Big Five (lion, buffalo, elephant, rhino, and leopard) potentially nearby.

Stranded in our vehicle (you're not allowed to step outside except in designated areas), we did what any two field scientists with a sense of humour would do: we invented a game. As tourists drove by and looked at us curiously—though without stopping to ask if we were okay—we'd start dramatically pointing to the trees around us. If anyone asked what we were looking at, we'd say we were "searching for psyllids." The confused looks were priceless—no one knew what psyllids were, so they'd just nod and drive on. Somehow, this strange little game brought us a lot of joy and helped pass the time until help arrived.

That's Daniel for you: able to turn even a breakdown in the bush into a moment of shared laughter and learning. His presence makes any situation lighter, richer, and far more memorable.

BZD. I met Daniel in 2023 through DO when I was trying to publish my master's degree results. Despite being very inexperienced in publications and having practically no grounding in entomology, the next thing I knew Daniel offered to host me in Basel to identify the psyllid samples (he never says no to looking into a beautiful psyllid!) and work on the manuscript. When arriving I already knew he was a colossus of knowledge, but it quickly became clear that Daniel is not only a gentleman and a scholar but also a very kind, motivated and motivating person, who never leaves home without his sense of humour.

Even though he is one of the busiest people I know, he is always ready to help, and he always shows me enormous patience and understanding. Thank you so much for everything, Daniel!

GC. I began studying psyllids in late 2013, when I joined the laboratory of Insect Biosystematics at Seoul National University, under the supervision of Dr. Seunghwan Lee. Though Dr. Lee is an aphidologist, he recognized the economic significance of psyllids, which had not been thoroughly studied in Korea since 1983. At that time, I was the only researcher in Korea focusing on psyllids, and it was a real challenge to establish myself in the field. In 2014, Dr. Lee and Daniel met in Europe, where Daniel generously supported my study, marking the beginning of our collaboration.

I first met Daniel in 2015 during his visit to Seoul National University, and we embarked on several field trips across the country (Fig. 4). He visited again in 2016, and as an inexperienced psyllidologist, I gained invaluable knowledge from him. Later in 2015, I visited the Naturhistorisches Museum in Basel, where Daniel graciously hosted me at his home. Around that time, Liliya Serbina was almost completing her doctorate under his supervision. Every weekday in Basel, Daniel and I met in his kitchen before walking to the museum. I recall him writing something in the kitchen every early in the morning. His sincerity and dedication as a scientist had an indelible impact on me. Overtime, I began to appreciate his extensive knowledge on psyllids. I co-authored nine early research papers (see Appendix 1) with Daniel, which was an enriching experience.

I have always enjoyed speaking to him and greatly admire his personal and professional qualities. I am truly grateful to Daniel for his exceptional advice, insightful comments, and unwavering support along my journey.

DIRM. I first heard of Daniel Burckhardt during my bachelor's, as soon as I developed an interest in psyllids. He was *the* reference in the field, and his papers were always a joy to read. I was genuinely disappointed to learn he had retired; my dream of working with him felt gone.

A couple of years later, Daniel messaged me on ResearchGate asking about the species of *Mastigimas* in my profile picture. I remember running to the lab to identify it. That small moment led to an invitation to a psyllid course in Brazil. Of course, I couldn't say no.

I was completely starstruck when I met him. I bombarded him with questions, and he answered every one with the patience and passion of a true teacher. By the end of the course, when they asked who might want to do a master's with him and Dalva Queiroz, the whole room looked at me. I raised my hand immediately.



FIGURE 4. Daniel Burckhardt in the Gwangyang region, South Korea, 2015.

During my master's, I spent a month in Basel working with him: one of the most meaningful experiences of my life. I learned how to properly do taxonomy, and I also discovered that Daniel is not just an incredible scientist, but also a great tour guide and a talented guitarist (Fig. 3). Turns out my academic hero has excellent taste in music.

At the end of my master's, he asked if I wanted to do my PhD with him in Basel. I nearly shouted yes. This time, though, the path wasn't as smooth. I faced difficult moments, and I learned, sometimes the hard way, that I could go to him not just for psyllid-related questions, but for life advice too. Daniel supported me with (lots of) patience and empathy.

It's safe to say I wouldn't be where I am without him. He taught me everything I know about taxonomy and, maybe more importantly, he taught me the "Daniel Burckhardt standard". I'll never stop being his student, and I'm deeply grateful to have him in my life.

MMY. I began working with Daniel when I was a PhD student at the Maryland Center for Systematic Entomology, University of Maryland in the 1990s. At the time, I was serving as a curatorial fellow at the Smithsonian Institution, working on the Psylloidea (Insecta: Homoptera) collection at the United States National Museum of Natural History. I first met Daniel during his visit to examine psyllid specimens, and that encounter marked the beginning of a long and fruitful collaboration.

Over the years, I have had the privilege of working closely with Daniel. Together, we published several journal articles and co-authored two volumes on the Psylloidea of Taiwan. His exceptional scholarship, generosity, and integrity have always been an inspiration. Daniel's clarity of thought and precision in taxonomy have not only deepened my own understanding of psyllids but also set a standard I continually look up to.

Between 1998 and 2000, we were invited by the Systematic Entomology Laboratory, USDA, to work together for one month each year on the curation and study of psyllid specimens in the US National Collection. In 2008, I had the pleasure of visiting Daniel in Basel, Switzerland, and more recently, in the autumn of 2023, I hosted him in Taiwan. Although he had officially retired, his enthusiasm for Psylloidea was clearly undiminished. During his visit, he helped curate museum specimens, delivered a seminar, led a student workshop, and actively engaged with young psyllid researchers, including my former PhD student Yi-Chang Liao, who also co-hosted the visit and had previously co-authored papers with Daniel. I was especially impressed by how sincerely Daniel shared his insights and encouragement with Yi-Chang and other junior colleagues.

What struck me most during that visit was not only his scientific rigor but also his remarkable field skills and unflagging passion for collecting. When indoor tasks allowed, he enthusiastically proposed additional field trips and demonstrated extraordinary effectiveness in finding psyllids in the wild—a talent that left us all in admiration.

It is a true honour to celebrate Daniel's 70th birthday through this special volume. I am deeply grateful for our collaboration and, even more so, for the enduring friendship we have built over the years.

DMP. Although I have not, like many people studying psyllids, studied directly under Daniel, he has nevertheless influenced my research trajectory in more subtle ways through his detailed reviews and comments on submitted manuscripts and grant proposals, and in a much larger capacity through recent collaborations. He is an inciteful critic and can immediately spot a nomenclatural “faux pas”, always taking time to explain why “it cannot be done that way”—with extreme politeness, but never condescending, despite the “correct way” being overwhelmingly obvious (but somehow not until he points it out). As well as being your best critic, he is also a generous collaborator and colleague, genuinely enthusiastic to see fellow researchers progress, even when he could have achieved the same goals in half the time! His inimitable style and attention to detail are unmistakable, and most of us can only hope to aspire to the same qualities in our own work. Daniel is effectively a “giant” of psyllid research and having him in our field has improved not only the knowledge of psyllids through his tremendous output (as outlined above by DO), but has directly or indirectly impacted the standard of all psyllid research. I will always be grateful to Daniel for setting such a high bar in our research field and for generously supplying guidance to those of us who attempt to follow in his wake. All this, and still he makes us laugh with only a drop of his famously dry wit!

IZP. Daniel Burckhardt was Curator of Entomology at the Natural History Museum in Geneva from 1985 to 1997. He then returned to his hometown of Basel and became Curator of Entomology at the Natural History Museum in Basel from 1997 to 2016.

I first met Daniel Burckhardt in 2005 while organising a GBiF conference in Basel, for which he was the patron. When I started working as the Collection Manager for Entomology at the Natural History Museum in 2006, Daniel introduced me to the world of Entomology.

Throughout his career, Daniel supervised numerous students, doctoral candidates and postdocs. I had the privilege of participating in his scientific seminars, university lectures, preparation courses and excursions. Daniel is also an excellent collector—I still benefit from his many years of field experience today. He has always been a valuable source of information and inspiration for my work as a Collection Manager. He not only taught me about scientific collections, but also their importance for research.

But it is not only Daniel Burckhardt's professional expertise that I greatly admire. His passion and dedication to science are admirable. His tireless work ethic, perseverance and curiosity impress me deeply. He is always striving to expand his knowledge—and, above all, to pass it on. He has succeeded in inspiring young scientists to take an interest in his research on Psylloidea and, together with them, has gained new insights.

I would like to express my heartfelt thanks to Daniel Burckhardt for his continuous support and valuable assistance throughout my professional career. I wish him many fulfilling and inspiring hours in his future scientific work.

IM. I was introduced to Daniel Burckhardt by Pavel Lauterer, my mentor in entomology since my teenage years. When I was about to complete my Master's degree at Masaryk University in Brno in 2001 under Pavel's kind and excellent supervision, he wisely advised me to look for my next supervisor abroad and suggested Daniel, a good friend and close collaborator of his. At that time, Daniel was a legendary figure known to me through his outstanding publications on psyllids and especially through Pavel's stories of his repeated visits to Daniel, first in Geneva and later in Basel, where he himself experienced many moments of professional fulfilment and happiness. My very first personal contacts with Daniel took place on the phone—it was still at a time when the internet could not be used for communication as easily as today and international phone calls were quite expensive—it was usually Daniel who called me in Brno and spoke to me with great empathy, generously tolerating my imperfect communication both professionally and linguistically, and offering me an attractive project for a doctoral thesis. Thanks to this great generosity and support from Daniel and a scholarship from the Swiss Federal Commission for Scholarships for Foreign Students, I soon had the great privilege of spending a whole year of my doctoral studies at the Natural History Museum in Basel. This was extremely important for me to develop as a student

and scientist. Daniel always realised that expertise in the systematics and taxonomy of insects cannot be acquired simply by studying literature or museum collections (although these are also indispensable), but that the essence of this art must be passed on from master to apprentice through direct contact and collaboration, as in most other intricate arts and crafts since ancient times. Thus I began to learn from Daniel the art of systematics and taxonomy, which was very much focused on psyllids and included some specialised techniques such as dissection of psyllids, slide preparation and specific morphological terminology, but whose general essence can be applied to any group of organisms, as it lies in properly documented scientific collections, in the careful and detailed observation of specimens, repeated comparisons between closely and more distantly related taxa, the thorough evaluation of characters using the concept of homology, the definition of taxa based on synapomorphies, and the description of the results of the study for publication in a clear, unambiguous but concise style suitable and adapted to the target journal or book, complemented by illustrations that are not only beautiful for their aesthetic qualities, but above all diagnostic. Like many of Daniel's other students and colleagues, I was impressed by his gracious and respectful behaviour, characterised by generosity, kindness and a sense of honour also towards students, by his tireless enthusiasm and willingness to selflessly pass on his lifelong experience and knowledge, by his intelligent dry humour and friendly attitude, which created an almost family atmosphere and made the German word for a doctoral supervisor ("Doktorvater") very meaningful. This made my stay in Switzerland, far away from my real family, a very pleasant experience and I will always remember the good times I often spent with my "doctoral sister and brother" Denise Wyniger and Roland Mühlethaler and our joint "doctoral father" Daniel in the evenings after full days of work at the museum, occasionally ending with our "one more beer for the road".

In the years that followed, I realised again and again that I could still learn so much from Daniel. Mostly this was the case when I went through collected psyllid material with him and he willingly helped me with the identification or found an important morphological character that I had overlooked myself, or when we prepared publications on psyllids, often also in collaboration with other close colleagues. In 2017, I had the privilege of spending two weeks collecting psyllids with Daniel, Dalva Queiroz and Liliya Serbina in Paraná, Brazil. Shortly after arriving at Dalva's flat in Curitiba and starting to prepare the luggage for my first excursion the next day, I realised from Daniel's face that I had been missing something very important—although I had previously worked on the systematics of some tropical psyllids under Daniel's guidance, I had lacked the experience of collecting psyllids in tropical forests. My usual sweeping net, which I had used successfully for psyllids in Europe and the Middle East, proved to be completely useless for the tall trees in the Atlantic Forest in Brazil. Fortunately, Dalva and Daniel were able to lend me one of their specially designed nets for this purpose and over the next few weeks I received an excellent training and introduction to the vast Neotropical biodiversity from them. The time I spent in their company was once again an unforgettable and irreplaceable experience for which I am very grateful.

SB. I first met Daniel during my PhD, thanks to DO. I must admit I was a little nervous, after all, meeting the top specialist on psyllids doesn't happen every day! I was expecting someone a bit intimidating... but instead, I discovered someone approachable, humble, and always happy to share his knowledge.

He even invited me to Basel, where I spent two fruitful weeks. During that time, Daniel was unfortunately unwell. He even told me one day that he had taken an ice bath to bring down his fever! Normally working from 7 a.m. to 7 p.m. every day, even on weekends, he couldn't keep up his usual hours, yet he still made the effort to work with me. It really showed me how dedicated and hardworking he is. Even so, I learned in those two short weeks what would have otherwise taken me months, if not years.

During our collaboration, he often thanked me for including him, while in truth, I kept thinking, "*How lucky I am to work with him.*" His guidance, knowledge, and thoughtful advice made a huge difference, and I try to apply what I learned from him every day in my work.

For me, Daniel is like a living encyclopedia of psyllids, but even better, because he is full of humor, passion, curiosity, and real-life stories.

DQ. My first contact with Daniel Burckhardt, internationally recognized as the leading authority in psyllid taxonomy (and, let's be honest, probably one of the few people on Earth who can say that without irony), took place back in 1998. I had collected some psyllids from eucalyptus and sent them to him for identification, thinking, "Well, let's see what the Swiss precision can do." That small gesture kicked off what would become a long, fruitful, and sometimes delightfully obsessive collaboration in the arcane world of tiny jumping plant lice.

What started as a simple specimen exchange evolved into a relentless, decades-long effort to untangle the hairy details (sometimes literally) of psyllid diversity—one genitalia dissection at a time. Since then, Daniel and I have been in continuous collaboration, publishing paper after paper, describing species that no one asked for (except biodiversity, which is always grateful), and reviewing taxonomic puzzles that only people like us lose sleep over.

Over the years, we've worked with a variety of international institutions, strengthening not only our research but also our tolerance for email chains in five different time zones. And the results have been substantial: we've more than doubled the known diversity of Brazilian psyllids. Yes, doubled. Which basically means that before we started, the known fauna was... modest. Let's just say Brazil had more species undescribed than psyllids in the literature. Not anymore.

Daniel, in addition to being a world-class taxonomist with the uncanny ability to spot the differences between two nearly identical insects while blindfolded (okay, maybe not blindfolded), is also a meticulous reviewer for various scientific journals. His reviews are so thorough, some authors are still recovering. But hey, quality control is a lonely job—and someone has to do it right.

And just when you think he's all microscopes and morphological keys, here comes the twist: Daniel is also an excellent guitarist (Fig. 3). Yes, the man who can write a six-page description of a new *Calinda* species can also shred a mean Chuck Berry solo. His rendition of Johnny B. Goode is so good that it nearly makes you forget the pain of revising the fifth version of a manuscript. (Keyword: nearly.)

After more than two decades working together, I still collaborate with Daniel with the same enthusiasm—and sarcasm—as I did at the beginning. Our partnership is built on mutual respect, shared nerdiness, and a commitment to making the psyllid world a little less mysterious (and a lot more crowded with species names). Together, we've produced real contributions to science—and a treasure trove of stories, laughs, and a few groans from overworked reviewers and editors.

Science may be serious business, but working with Daniel has proven that you can chase one of the tiniest insects on the planet and still have a big, well-tuned guitar riff echoing in the background.

Additional information

A complete list of Daniel Burckhardt's publications is given in Appendix 1, and the taxon names formed from Daniel Burckhardt's name are listed in Appendix 2.

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APPENDIX 1. Publications by Daniel Burckhardt, grouped in seven categories (successively publications in scientific journals, book chapters and books, internet resources, abstracts of oral or poster presentations at congresses, popular articles, obituaries, etc., unpublished theses and reports, and book reviews) and chronologically listed inside each category.

Publications in scientific journals

2025

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APPENDIX 2. List of taxon names formed from Daniel Burckhardt's name. In bold, the patronyms published in this special volume.

- Aacanthocnema burckhardti* Taylor, 2011 (Hemiptera: Triozidae)
Acrotocepheus burckhardti Mahunka, 1987 (Sarcoptiformes: Otocephelidae); now *Otocepheus (Acrotocepheus) burckhardti* (Mahunka, 1987)
Adelarthra burckhardti Pace 2003 (Coleoptera: Staphylinidae)
Agathidium burckhardti Angelini, 1989 (Coleoptera: Leiodidae)
Agatyrus burckhardti Chandler, 2001 (Coleoptera: Staphylinidae)
Amarygmus burckhardti Bremer, 2001 (Coleoptera: Tenebrionidae)
Anthelephila burckhardti Telnov, 2003 (Coleoptera: Anthicidae)
Apatelomixidota burckhardti Pace, 2002 (Coleoptera: Staphylinidae)
Aphthonoides burckhardti Doeberl, 2005 (Coleoptera: Chrysomelidae)
Argiloborus burckhardti Giachino, 2003 (Coleoptera: Carabidae)
Axiocerylon burckhardti Besuchet & Ślipiński, 1988 (Coleoptera: Cerylonidae)
Baeocera danieli Löbl, 2018 (Coleoptera: Staphylinidae)
Biroina burckhardti Papp, 1995 (Diptera: Sphaeroceridae)
Burckhardtia Brown & Hodkinson, 1988 (Hemiptera: Aphalaridae); junior homonym of *Burckhardtia* Frech, 1907; replacement name *Hodkinsonia* Burckhardt, Espírito-Santo, Fernandes & Malenovský, 2004
Burckhardtia Straube & Miretzki, 1999 (Hemiptera: Psyllidae); junior homonym of *Burckhardtia* Frech, 1907; replacement name *Baccharopelma* Burckhardt, Espírito-Santo, Fernandes & Malenovský, 2004
***Burckhardtiana* Queiroz (Hemiptera: Liviidae)**
Cacopsylla burckhardti Luo, Li, Ma & Cai, 2012 (Hemiptera: Psyllidae)
Carpelimus burckhardti Gildenkova, 2013 (Coleoptera: Staphylinidae)
Chaetosogonocephus burckhardti Pace, 2008 (Coleoptera: Staphylinidae); = now *Peltodonia burckhardti* (Pace 2008)
Chimaeridris burckhardti Wilson, 1989 (Hymenoptera: Formicidae)
Ciriactremum burckhardti Yana, Ndankeu, Dzokou & Tamesse, 2021 (Hemiptera: Psyllidae)
Clambus burckhardti Endrödy-Younga, 1990 (Coleoptera: Clambidae)
Coenonica burckhardti Pace, 2003 (Coleoptera: Staphylinidae)
Colasidia burckhardti Baehr, 1997 (Coleoptera: Carabidae)
Coleotroctellus burckhardti Lienhard, 1988 (Psocodea: Troctopsocidae)
Colydiopeltis burckhardti Ślipiński, 1992 (Coleoptera: Trogossitidae)
***Cyamophila burckhardti* Inoue (Hemiptera: Psyllidae)**
***Danieliana* Percy (Hemiptera: Psyllidae)**
Derarimus burckhardti Uhmman, 1994 (Coleoptera: Anthicidae)
Dianous burckhardti Puthz, 1988 (Coleoptera: Staphylinidae)
Euconnus burckhardtianus Franz, 1989 (Coleoptera: Staphylinidae)
Euconnus (Euconnus) burckhardti Franz, 1989 (Coleoptera: Staphylinidae)
Euconnus (Euconnus) paraburckhardti Franz, 1989 (Coleoptera: Staphylinidae)
Euconnus (Napochus) burckhardtianus Franz, 1992 (Coleoptera: Staphylinidae); junior homonym of *Euconnus (Euconnus) burckhardti* Franz, 1989; replacement name *Euconnus daburckhardtianus* Jałoszyński, 2011
Eusteniamorpha burckhardti Pace, 2002 (Coleoptera: Staphylinidae)
Formicococcus burckhardti Williams, 2004: 276 (Hemiptera: Pseudococcidae)
Gabrius burckhardti Schillhammer, 1997 (Coleoptera: Staphylinidae)
Gyrophana (Gyrophana) burckhardti Pace, 2001 (Coleoptera: Staphylinidae)
Horniella burckhardti Yin & Li in Yin *et al.*, 2014 (Coleoptera: Staphylinidae)
Imparipes burckhardti Mahunka & Mahunka-Papp, 1988 (Trombidiformes: Scutacaridae)
Laena burckhardti Schawaller, 1998 (Coleoptera: Tenebrionidae)
Livilla burckhardti Hodkinson & Hollis, 1987 (Hemiptera: Psyllidae)
Loebliorylon burckhardti Ślipiński, 2003 (Coleoptera: Cerylonidae)
Loebliquasis burckhardti Dolin, 1997 (Coleoptera: Elateridae)

Madrasostes burckhardti Paulian, 1989 (Coleoptera: Hybosoridae)
Mapuchea burckhardti Szwedo, 2004 (Hemiptera: Myerslopiidae)
Megalopinus burckhardti Puthz, 2012 (Coleoptera: Staphylinidae)
Melanotus (Melanotus) burckhardti Platia & Schimmel, 2001 (Coleoptera: Elateridae)
Metopidiotrix burckhardti Shear, 2002 (Diplopoda: Chordeumatida: Metopidiotrichidae)
Mimacrotona burckhardti Pace, 2008 (Coleoptera: Staphylinidae)
Mitrapsylla burckhardti Brown & Hodkinson, 1988 (Hemiptera: Psyllidae)
***Mitrapsylla burckhardtiella* Malenovský, Serbina & Queiroz (Hemiptera: Psyllidae)**
***Mitrapsylla danieli* Malenovský, Serbina & Queiroz (Hemiptera: Psyllidae)**
Morana burckhardti Kurbatov, Coccodoro & Löbl, 2007 (Coleoptera: Staphylinidae)
Myrmoterus danieli Agosti, 1992 (Hymenoptera: Formicidae)
Nargus (Demochrus) burckhardti Giachino & Vailati, 2000 (Coleoptera: Leiodidae)
Olophrinus burckhardti Schuelke, 2006 (Coleoptera: Staphylinidae)
Orthogonius burckhardti Tian & Deuve, 2006 (Coleoptera: Staphylinidae)
***Patsenga danielburckhardti* Drohojowska & Szwedo (Hemiptera: Aleyrodidae)**
Peliopoda (Peliopoda) burckhardti Pace, 2004 (Coleoptera: Staphylinidae)
Protopselaphus burckhardti Newton & Thayer, 1995 (Coleoptera: Staphylinidae)
Pseudindalmus burckhardti Tomaszewska, 2001 (Coleoptera: Endomychidae)
Pseudoligota burckhardti Pace, 2003 (Coleoptera: Staphylinidae)
Pseudophacopteron burckhardti Tamesse, Mapon & Yana, 2014 (Hemiptera: Aphalaridae)
Psyllipsocus burckhardti Lienhard, 2024 (Psocodea: Psyllipsocidae)
Ptomaphagus burckhardti Schilthuizen & Perreau, 2008 (Coleoptera: Leiodidae)
Pulchroppia burckhardti Mahunka, 1987 (Sarcoptiformes: Oppiidae)
Rhyarus burckhardti Paulian, 1989 (Coleoptera: Scarabaeidae)
Rimaderus burckhardti Uhmman, 1989 (Coleoptera: Anthicidae)
Rotundabaloghia (Circobaloghia) burckhardti Kontschán & Ermilov, 2022 (Mesostigmata: Uropodidae)
Sabahdima burckhardti Schimmel & Platia, 1993 (Coleoptera: Elateridae)
Scaphobaecocera burckhardti Löbl, 1990 (Coleoptera: Staphylinidae)
Scaphisoma burckhardti Löbl, 2023 (Coleoptera: Staphylinidae)
Scydmaenus (Eustemmoides) burckhardtloebli Franz, 1992 (Coleoptera: Staphylinidae)
Scydmaenus (Mimoscydmaenus) burckhardti Franz, 1986 (Coleoptera: Staphylinidae)
Siamanura burckhardti Deharveng, 1987 (Collembola: Neanuridae)
Similosodus burckhardti Hüdepohl, 1996 (Coleoptera: Cerambycidae)
Stenus (Hypostenus) burckhardti de Rougemont, 1987 (Coleoptera: Staphylinidae)
Strongylium burckhardti Masumoto, 2003 (Coleoptera: Tenebrionidae)
Systates burckhardti Rheinheimer, 2003 (Coleoptera: Curculionidae); now *Nematocerus burckhardti* (Rheinheimer, 2003)
Thaicader burckhardti Péricart, 1991 (Hemiptera: Tingidae)
Thyreoscephalus burckhardti Bordoni, 2002 (Coleoptera: Staphylinidae)
Trichadenotecnum danieli Yoshizawa & Lienhard, 2007 (Psocodea: Psocidae)
***Trioza burckhardti* Liao & Yang (Hemiptera: Triozidae)**
***Triozidus burckhardti* Liao & Percy (Hemiptera: Triozidae)**
Tuthillia danielburckhardti Drohojowska, 2016 (Hemiptera: Psyllidae)
Uloma burckhardti Schawaller, 2000 (Coleoptera: Tenebrionidae)
Ulonemia burckhardti Péricart, 1992 (Hemiptera: Tingidae); now *Proteatingis burckhardti* (Péricart, 1992)
Xantholinus burckhardti Bordoni, 2002 (Coleoptera: Staphylinidae)
***Yangus burckhardti* Cho (Hemiptera: Psyllidae)**