**BIBLIOGRAPHY ANNEX**

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| **SECTION 1. TEMPORAL EVOLUTION, GROWING INTEREST** |
| **A. First publications from Australian Project** | I. Introduced Species | Ferrar, 1975; Macqueen et al., 1986; Matthiessen et al., 1986; Ridsdill Smith, 1986; Waterhouse, 1974 |
| II. Biological Control | Bornemissza, 1970; Bryan, 1973; Bryan and Kerr, 1989; Macqueen and Beirne, 1975a; Ridsdill-Smith, 1981; Ridsdill-Smith et al., 1987; Ridsdill-Smith and Matthiessen, 1984; Ridsdill Smith and Matthiessen, 1988; Tyndale-Biscoe et al., 1981; Whartom and Norris, 1980 |
| **B. Publication from the 1990’s** | I. Australian articles | Dadour et al., 1999, 2000; Dadour and Cook, 1996; Doherty et al., 1994; Doube and Macqueen, 1991; Hulding et al., 1991; Ridsdill-smith, 1993a, 1993b; Ridsdill-Smith and Hayles, 1990; Roth et al., 1991; Tyndale-Biscoe, 1994; Tyndale-Biscoe and Vogt, 1991; Waller and Faedo, 1996; Wardhaugh et al., 1993, 1998; Wardhaugh and Mahon, 1991; Wardhaugh and Ridsdill-smith, 1998 |
| II. South African articles | King 1993; Davis 1994, 1996; Krüger and Scholtz 1995, 1997, 1998; Krüger et al. 1998, 1999 |
| **C. Later publications** | 2007 articles | Cabrero-Sañudo et al. 2007; Dormont et al. 2007; Escobar et al. 2007; Halffter et al. 2007; Holter and Scholtz 2007; Horgan 2007; House and Simmons 2007; Iwasa et al. 2007; Kryger et al. 2007; Lumaret et al. 2007; Nichols et al. 2007; Paraud et al. 2007; Römbke et al. 2007; Son Bang et al. 2007; Verdú et al. 2007; Zamora et al. 2007 |
| **D. Reviews** |  | Whartom and Norris, 1980; Stevenson and Dindal, 1987; Strong, 1992; Dymock, 1993; King, 1993; Wratten and Forbes, 1996; Waller and Faedo, 1996; Wardhaugh and Ridsdill-Smith, 1998; Martin-Piera, 2001; Lumaret and Errouissi, 2002; Whitehouse and Smith, 2004; Davis et al, 2004; Wardhaugh, 2005; Nichols et al, 2007; Rivera and Wolff, 2007; Carpaneto et al, 2007; Miraldo et al, 2011; Beynon, 2012a; Hejcman et al, 2013; Jacobs and Scholtz, 2015; Iqbal et al, 2017; Alvarado et al, 2018a; Whitehead et al, 2018; Pulido et al, 2018; Pérez-Cogollo et al, 2018; Doube, 2018; Bezanson and Floate, 2019; Tiainen et al, 2020; Finch et al, 2020; Pokhrel et al, 2020; Szewc, De Waal and Zintl, 2021; Rodriguez-Vivas et al, 2021; Pokhrel et al, 2021; de Souza and Guimarães, 2022 |
| **SECTION 2. MAIN CATEGORIES: BIOLOGY** |  |
| **A. Fauna attributes** | I. Vital Cycles, Reproduction, genetic patterns | Teskey 1969; Holter 1979; Ridsdill-Smith et al, 1982; Macqueen et al. 1986; Edwards, 1986; Ridsdill Smith 1986; Aschenborn et al. 1989; Dadour and Cook 1996; House and Simmons 2007; Paraud et al. 2007; Hanski et al. 2008; Forgie, 2009; Iwasa and Sugitani 2014; Kang et al. 2018; Shymanovich et al. 2020 |
| II. Ecological Traits | Holt and Coventry 1982; Holter 1982; Ridsdill-smith 1993a; Davis 1996; Menéndez and Gutiérrez 1996; Hu and Frank 1997; Roslin 2001; Marchiori et al. 2003; Lee and Wall 2006; Wood and Kaufman 2008; Blanco et al. 2013; González-Bernal et al. 2013; Medina and Lopes 2014; Feit et al. 2015; Campos et al. 2018; Sladecek et al. 2021 |
| **B. Habitat preferences** | I. Distribution | Blank et al. 1983; Verdú and Galante 2002; Cabrero-Sañudo and Lobo 2006; Dortel et al. 2013; Floate et al. 2014 |
| II. Paleo/antropology pasture Biome Indicators | Schwert 1996; Andrieu-Ponel et al. 2000; Wirta et al. 2008; Elias et al. 2009; Whitehouse and Smith, 2010; Ottó and Gábor 2012; Sandom et al., 2014; Smith et al. 2014; Kohlmann et al., 2018 |
| **C. Food preferences** | I. Choosing Mechanisms | Mulla and Ridsdill-smith 1986; Dormont et al. 2004, 2007, 2010; Errouissi et al. 2004; Holter and Scholtz 2007; Flechtmann et al. 2009; Perera et al. 2022 |
| II. Assemblage Preferences | Kabir et al. 1990; Barbero et al. 1999; Galante and Cartagena 1999; Tshikae et al. 2008; Davis et al. 2010; Shahabuddin et al. 2010; Enari et al. 2012; Correa et al. 2013; Tshikae et al. 2013; Mroczyński and Komosiński 2014; Bourg et al. 2016; Correa et al. 2016b, 2017, 2020b; Laux et al. 2019; Sands et al. 2022 |
| **SECTION 3. MAIN CATEGORIES: DIVERSITY** |
| **A. Description surveys** | I. Taxonomic Diversity | Zahn and Hirschberger 2001; Morelli et al. 2002; Mendes and Linares, 2006; Simelane 2009; Elder and Pétillon 2010; Fiene et al. 2011; Abot et al. 2012; Arriaga et al. 2012; Basto-Estrella et al. 2012; Kaufman and Wood 2012; von Reike and Enge 2012; Floate and Kadiri 2013; Anderson et al. 2020; Wagner et al. 2021 |
| II. Assemblages Diversity | Nibaruta 1981; Matthiessen et al. 1986; Psarev 2002; Jiang and Zhou 2005; Louzada and Carvalho e Silva 2009; Negro et al. 2011; Imura et al. 2014; Buse et al. 2015; Abdel-Dayem et al. 2016; Sullivan et al. 2016; Sands and Wall 2018; Pecenka and Lundgren 2019; Correa et al. 2020a; Hussain et al. 2020 |
| III. Phylogenetic Diversity | Alvarado et al. 2018a; Cao et al. 2021a |
| **B. Ecological Traits** | I. Biomass | Kirk and Wallace 1990; Galante et al. 1991, 1995; Lumaret et al. 1992; Hutton and Giller 2003; Filgueiras et al. 2015; Alvarado et al. 2020; Hernández et al. 2021 |
| II. Body size | Scheffler 2005; Tonelli et al. 2018 |
| III. Temporal diversity | Floate and Gill 1998; Bertone et al. 2005; Cabrero-Sañudo et al. 2007; Wassmer 2014 |
| IV. Environmental descriptions | Doube and Macqueen 1991; Roth et al. 1991; Lobo et al. 1998; Tocco et al. 2013a; Rangel-Acosta and Martínez-Hernández 2017; Shabalin 2021 |
| **C. Biomes Comparison** | I. Woody and grassland habitats | Kadiri et al. 1997; Anduaga 2004; Escobar et al. 2007; Horgan 2007; Zamora et al. 2007; Navarrete and Halffter 2008; Blaum et al. 2009; Numa et al. 2009; Jugovic et al. 2018; Conover et al. 2019; Guerra Alonso et al. 2019; Díaz-García et al. 2020; Ortega-Martínez et al. 2020; Tocco et al. 2020; Correa et al. 2021. |
| II. Altitudinal gradients | Davies et al. 2020; Perrin et al. 2020 |
| III. Precipitation gradients | Tshikae et al. 2013 |
| **SECTION 4. MAIN CATEGORIES: ECOLOGICAL FUNCTION** |
| **A. Dung Removal Rate** | I. Different assemblages | Ferrar 1975; Hughes 1975; Horgan 2001; Amézquita and Favila 2010; Ortega-Martínez et al. 2016; González-Tokman et al. 2018; Huerta et al. 2018; Alvarado et al. 2019; Correa et al. 2019a; Jones et al. 2019; Bastos Lopes et al. 2020; Sa’roni et al. 2020; Sarmiento-Garcés and Hernández 2021; Stanbrook and King 2022 |
| II. Biomass + Behavioral or Seasonal Patterns | Macqueen and Beirne 1975b; Gittings et al. 1994; Tyndale-Biscoe 1994; Lumaret and Kadiri 1995; Herrick and Lal 1996; Borghesio et al. 1999; Gould et al. 2001; Giraldo et al. 2011; Cruz Rosales et al. 2012a; Kaartinen et al. 2013; Ortega-Martínez et al. 2014; Tixier et al. 2015; Basto-Estrella et al. 2016; Frank et al. 2017; Martínez et al. 2018a; Pecenka and Lundgren 2018; Miranda-Flores et al. 2020; Ramírez-Espinosa et al. 2020; Ortega Martínez et al. 2021  |
| III. Heterotrophic succession + abiotic decomposition | Barth et al. 1994; Horgan 2002; Lee and Wall 2006; Wu and Sun 2010; Wu et al. 2011; Wassmer 2020 |
| IV. Modelling and Economic Value | Lopez-Collado et al. 2017 |
| **B. Soil Modification** | I. Bioturbation | Arias-Álvarez et al. 2022; Leiva and Sobrino-Mengual 2022; Braga et al. 2019; Brown et al. 2010 |
| II. Nutrient Cycling | Joseph et al. 2015; Yoshihara and Sato 2015; Maldonado et al. 2019; Gómez-Cifuentes et al. 2020; Guo et al. 2021; Barragán et al. 2022; Cheng et al. 2022 |
| **C. Seed Dispersal** |  | D’hondt et al. 2008; Mancilla-Leytón et al. 2012; Milotić et al. 2018; Cao et al. 2021b |
| **SECTION 5. MAIN CATEGORIES: ECOSYSTEM SERVICES** |
| **A. Biological Control** | I. Pest flies’ control | Hughes et al. 1978; Ridsdill-Smith 1981; Tyndale-Biscoe et al. 1981; Ridsdill-Smith and Matthiessen 1984, 1988; Ridsdill-Smith et al. 1987; Doube and Moola 1988; Ridsdill-Smith and Hayles 1990; Tyndale-Biscoe and Vogt 1991; Davis 1994; Ripa et al. 1995; Cabrera Walsh and Cordo 1997; Koller et al. 2002; Bishop et al. 2005 |
| II. Gastrointestinal parasites control | Bryan 1973; Fincher 1973, 1975; Bergstrom et al. 1976; Bryan and Kerr 1989; Gronvold et al. 1992; Gormally 1993a,b; Biggane and Gormally 1994; Mathison and Ditrich 1999; Chirico et al. 2003; Ryan et al. 2011; Beynon et al. 2015; Sands and Wall 2017 |
| **B. Other Services** | I. Diversity and ecosystem services | Manning et al. 2016 |
| II. Carbon Sequestration | Gilroy et al. 2014c, Williams et al. 2017 |
| III. Effects on Greenhouse Gas Emission | Penttilä et al. 2013; Iwasa et al. 2015; Slade et al. 2016; Piccini et al. 2017a,b; Evans et al. 2019; Fowler et al. 2020; Verdú et al. 2020; Takahashi and Iwasa 2021; Wang et al. 2021 |
| **C. Disservices** | I. Endoparasite Vector | Lonc 1980 |
| **SECTION 6. MAIN CATEGORIES: PRODUCTION PRACTICES IMPACTS** |
| **A. Antiparasitic effect** | I. First field articles | Wardhaugh and Mahon 1991; Sommer et al., 1992; Holter et al. 1993a,b; Lumaret et al. 1993; Ridsdill-smith 1993b; Sommer et al. 1993; Barth et al. 1994; Strong and Wall 1994; Strong et al. 1996; Floate 1998a,b; Krüger and Scholtz 1998; Krüger et al. 1998; Dadour et al. 1999; Wardhaugh et al. 2001; Svendsen et al. 2003; Kryger et al. 2005 |
| II. First laboratory articles | Ridsdill-smith 1988; Fincher 1991, 1992, 1996; Hulding et al. 1991; Wardhaugh et al. 1993, 1998, 2001b; Doherty et al. 1994; Krüger and Scholtz 1995, 1997; Finnegan et al. 1997; Krüger et al. 1999; Errouissi et al. 2001; Vale et al. 2004; Iwasa et al. 2005; Kryger et al. 2006; Floate, 2007; Lumaret et al. 2007; Römbke et al. 2007 |
| III. Reproductive physiology and vital cycles | Dadour et al. 2000; Sommera et al. 2001; Iwasa et al. 2007; Son Bang et al. 2007; Cruz Rosales et al. 2012b; Mann et al. 2015; González-Tokman et al. 2017; Martínez et al., 2017; Pérez-Cogollo et al, 2017; Rodríguez-Vivas et al. 2019 a,b, 2020; Villada‐Bedoya et al. 2019; Weaving et al. 2019 |
| IV. Sub-lethal and Transgenerational effects | Kryger et al. 2007; O’ Hea et al. 2010; Verdú et al., 2015; Baena-Díaz et al. 2018; Manning et al. 2018; Martínez et al. 2018b; González-Tokman et al., 2020; Villada-Bedoya et al. 2021; Mackenzie et al. 2022 |
| V. Chemistry evaluations | Virlouvet et al. 2006; Iwasa et al. 2008; Suárez et al. 2009; Errouissi and Lumaret 2010; Römbke et al. 2010; Skrispsky and Hoffman 2010; Sutton et al. 2014; Floate et al. 2015; Sands et al. 2018 |
| VI. Livestock production management | Beynon et al. 2012b; Vale et al. 2015; Jochmann et al. 2016; Tonelli et al. 2017; Schoof and Luick 2019; Ambrožová et al. 2019, 2021; Hagadorn et al. 2021 |
| VII. Environmental conditions | Webb et al. 2010; Flota-Bañuelos et al. 2012 |
| VIII. Seasonal distribution | Basto-Estrella et al. 2014; Ambrožová et al. 2020 |
| IX. Effects on predators | Floate et al. 2008; Buijs et al. 2022 |
| X. Greenhouse gas emission | Hammer et al. 2016 |
| XI. Ecosystem services | Beynon et al. 2012c; Manning et al. 2017; Ishikawa and Iwasa 2018, 2019; Verdú et al. 2018; Kavanaugh and Manning 2020; Tonelli et al. 2020; Correa et al. 2022 |
| **B. Changes in diversity by human land use** | I. Taxonomic Diversity | ***Agricultural and livestock production***: Rodrigues et al. 2013; Gilroy et al. 2014a,b; Kaur and Jain 2014; Din et al. 2015; Farias and Hernández 2017; Escobar et al. 2020; Maldaner et al. 2021. ***Livestock and silvopastoral productions***: Arellano et al. 2013; Montoya-Molina et al. 2016; Mendivil Nieto et al. 2020; Duque-Vélez et al. 2022. ***Livestock and forest production***: Davis et al. 1988; Martínez-Sánchez et al. 2000; Jacobs et al. 2010; Silva et al. 2010, 2016, 2017; Barragán et al. 2014; Damborsky et al. 2014; Pryke et al. 2016; Martínez-Falcón et al. 2018; Rangel-Acosta et al. 2020; Somay et al. 2021. ***Nature grassland and pastures****:* Dennis et al. 2004; Correa et al. 2016a, 2019b; Treitler et al. 2017; Macedo et al. 2020. |
| II. Assemblage diversity | ***Open pastures and silvopastoral***: Bouragba et al. 2018; Gómez-Cifuentes et al. 2018; Tonelli et al. 2019; Guerra Alonso et al. 2020a,b*.* ***Grazing intensities*:** Roslin and Koivunen 2001; Lobo et al. 2006; Verdú et al. 2007; Hering et al. 2019; Jugovic et al. 2019; Correa and da Silva 2022; Guerra Alonso et al. 2022. ***Monocultures and livestock production*:** Gómez‑Cifuentes et al. 2017; Davies et al. 2021; Edwards et al. 2021. ***Livestock production and protected areas***: Escobar and de Ulloa 2000; Macagno and Palestrini 2009; Rahagalala et al. 2009; Barragan et al. 2011; Davis et al. 2012, 2014; Numa et al, 2012; Tocco et al. 2013b; Ríos‑Díaz et al. 2021; Nependa et al. 2021 |
| III. Land use indicator | Verdú et al. 2000; Söderström et al. 2001; Halffter and Arellano 2002; Halffter et al. 2007; Jay-Robert et al. 2008; Fan et al. 2012; Liu et al. 2013a,b; Barnes et al. 2014; Cajaiba et al. 2017 a,b; Alvarado et al. 2018b; Giménez Gómez et al. 2018; Mannu et al. 2018; Soto et al. 2019; Carvalho et al. 2020; Barragán et al. 2021; Buse et al. 2021; Stanbrook et al. 2021  |
| IV. Lead Contamination | Robel et al. 1981 |

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