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| La sperimentazione animale ai fini scientifici è disciplinata dal DL n. 26 del 2014 (attuazione della direttiva 2010/63/UE) e riguarda l’impiego e la protezione di vertebrati e cefalopodi.L’uso di modelli animali emergenti, ossia le specie per le quali, a oggi, si riconosce una minor complessità neurologica rispetto a quelle tutelate dalla normativa, è in continuo aumento e si configura sempre più come un valido esempio del “replacement” (Principio delle 3R).Per questo la Commissione didattica UZI ha ritenuto utile creare un database di specie di invertebrati già in utilizzo o potenzialmente utilizzabili in vari settori della ricerca biomedica riportando, ove possibile, la bibliografia di riferimento. |
| [PB1] | (Ricerca di Base) Oncologia | *Drosophila melanogaster*(Napoletano et al., 2017) |
| [PB2] | (Ricerca di base) Apparato cardiovascolare, sangue e sistema linfatico | *Drosophila melanogaster*(Ugur et al., 2016) *Pomacea canaliculata*  |
| [PB3] | (Ricerca di Base) Sistema Nervoso | *Drosophila melanogaster* (Napoletano et al., 2021)*Tenebrio molitor* (Breidbach, 1987)*Armadillidium gestroi* (Thompson et al., 1994)*Armadillidium nasatum* (Thompson et al., 1994)*Armadillidium pallasii* (Thompson et al., 1994)*Porcellionides pruinosus* (Thompson et al., 1994)*Hippolyte inermis* *Austropotamobius pallipes* *Cherax albidus* *Pomacea canaliculata* (Rivi et al., 2022)*Aplysia californica* (Mauelshagen et al., 1998) |
| [PB4] | (Ricerca di Base) Apparato Respiratorio | *Drosophila melanogaster* (Ehrhardt et al., 2022) |
| [PB5] | (Ricerca di Base) Apparato gastrointestinale, compreso il fegato | *Drosophila melanogaster*(Bertolio et al., 2019) |
| [PB6] | (Ricerca di Base) Sistema muscoloscheletrico | *Drosophila melanogaster* (Avellaneda et al., 2021)*Hippolyte inermis* *Austropotamobius pallipes* *Cherax albidus*  |
| [PB7] | (Ricerca di Base) Sistema Immunitario | *Drosophila melanogaster* (Buchon et al., 2014)*Tribolium castaneum**Tenebrio molitor* (Vommaro et al.,2021)*Hippolyte inermis* *Austropotamobius pallipes* *Cherax albidus* *Pomacea canaliculata* (Bergamini et al., 2023) |
| [PB8] | (Ricerca di Base) Apparato urogenitale/riproduttivo | *Drosophila melanogaster* (Napoletano et al., 2017)*Tribolium castaneum*(Vommaro et al., 2023)*Pterostichus melas* (Vommaro et al.,2022; Donato et al., 2021)*Hippolyte inermis* *Austropotamobius pallipes**Cherax albidus*  |
| [PB9] | (Ricerca di Base) Organi di senso (pelle, occhi e orecchie) | *Drosophila melanogaster*(Dourlen et al., 2012)*Tribolium castaneum* (Giglio et al., 2022)*Tenebrio molitor* (Giglio et al., 2022)*Pomacea canaliculata*  |
| [PB10] | (Ricerca di Base) Sistema endocrino/metabolismo | *Drosophila melanogaster*  (Bertolio et al., 2019)*Hippolyte inermis**Austropotamobius pallipes**Cherax albidus*  |
| [PB11] | (Ricerca di Base) Multiapparato | *Drosophila melanogaster* (Napoletano et al., 2021)*Pomacea canaliculata* (Davison and Neiman 2021)*Mytilus ssp*. (Schmidt et al., 2014)*Littorina littorea* (Larade and Storey, 2009) |
| [PB12] | (Ricerca di Base) Etologia / comportamento animale / Biologia animale | *Drosophila melanogaster* (Sokolowski, 2001)*Tenebrio molitor* (Carazo et al., 2012)*Neocaridina davidi* (Plichta et al., 2021)*Procambarus clarkii* (Dissegna et al., 2020)*Hippolyte inermis* *Austropotamobius pallipes* *Cherax albidus* *Artemia* spp*.*(Albano el al., 2021; Bergami et al., 2017; Rabjabi et al., 2015; Wang et al., 2019) |
| [PB13] | (Ricerca di Base) Altra ricerca di base | Tardigradi (Giovannini, Boothby et al. 2022; Giovannini, Corsetto et al. 2022; Jönsson 2019; Kasianchuk et al, 2023; Schill et al., 2009)*Artemia* spp*.*(Albano el al., 2021; Bergami et al., 2017; Rabjabi et al., 2015; Wang et al., 2019) |
| [PB14] | (Ricerca di Base) Biologia dello sviluppo | *Drosophila melanogaster* (Napoletano et al., 2017)*Pomacea canaliculata* (Bergamini et al., 2023)*Hippolyte inermis**Austropotamobius pallipes**Cherax albidus* *Artemia* spp*.*(Albano el al., 2021; Bergami et al., 2017; Rabjabi et al., 2015; Wang et al., 2019) |
| [PT21] | (Ricerca traslazionale e applicata) Tumori degli esseri umani | *Drosophila melanogaster*(Perrimon et al., 2016) |
| [PT24] | (Ricerca traslazionale e applicata) Disturbi nervosi e mentali degli esseri umani | *Drosophila melanogaster* (Narayanan and Rothenfluh, 2016) |
| [PT30] | (Ricerca traslazionale e applicata) Disturbi degli organi di senso degli esseri umani (pelle, occhi e orecchie) | *Drosophila melanogaster*(Nitta and Sugie, 2022) |
| [PT31] | (Ricerca traslazionale e applicata) Disturbi endocrini/metabolici degli esseri umani | *Drosophila melanogaster* (Moraes and Montagne, 2021)*Hippolyte inermis**Austropotamobius pallipes**Cherax albidus*  |
| [PT33] | (Ricerca traslazionale e applicata) Malattie e disturbi degli animali |  |
| [PT34] | (Ricerca traslazionale e applicata) Benessere degli animali | *Tenebrio molitor* *Neocaridina davidi* *Hippolyte inermis* *Austropotamobius pallipes* *Cherax albidus*  |
| [PT37] | (Ricerca traslazionale e applicata) Tossicologia ed ecotossicologia (studi non previsti dalla normativa) | *Pomacea canaliculata* *Littorina littorea* (Larade and Storey, 2009)*Tribolium castaneum**Tenebrio molitor* (Naccarato et al., 2023)*Pterostichus melas* (Giglio et al., 2021; Aiello et al., 2022)*Artemia* spp*.*(Albano el al., 2021; Bergami et al., 2017; Rabjabi et al., 2015; Wang et al., 2019) |
| [PT38] | (Ricerca traslazionale e applicata) Alimentazione animale | *Hippolyte inermis* |

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