

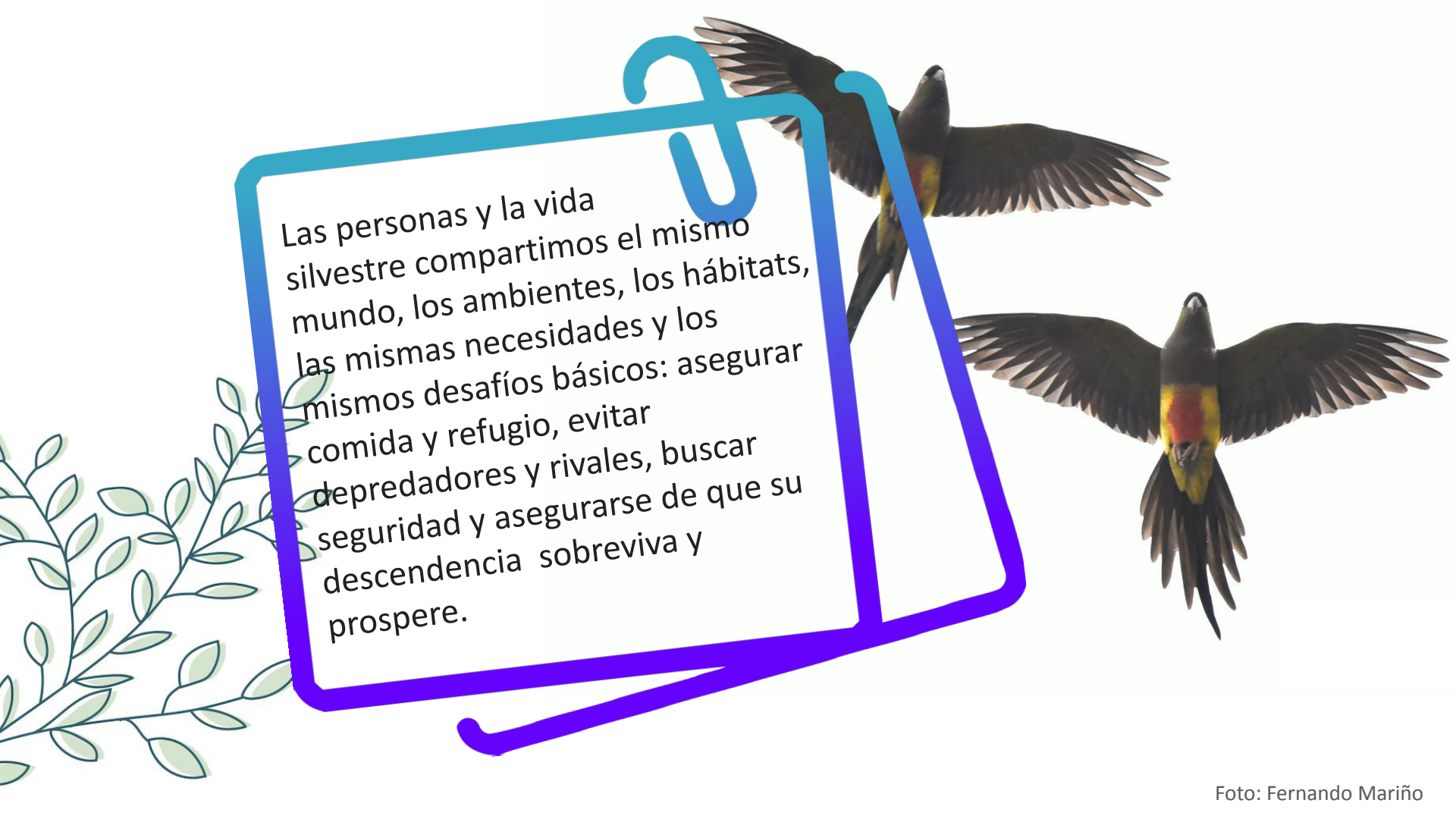
Vigilancia sanitaria para la conservación de la vida silvestre y su (y nuestro) bienestar

Dra. Marina Winter

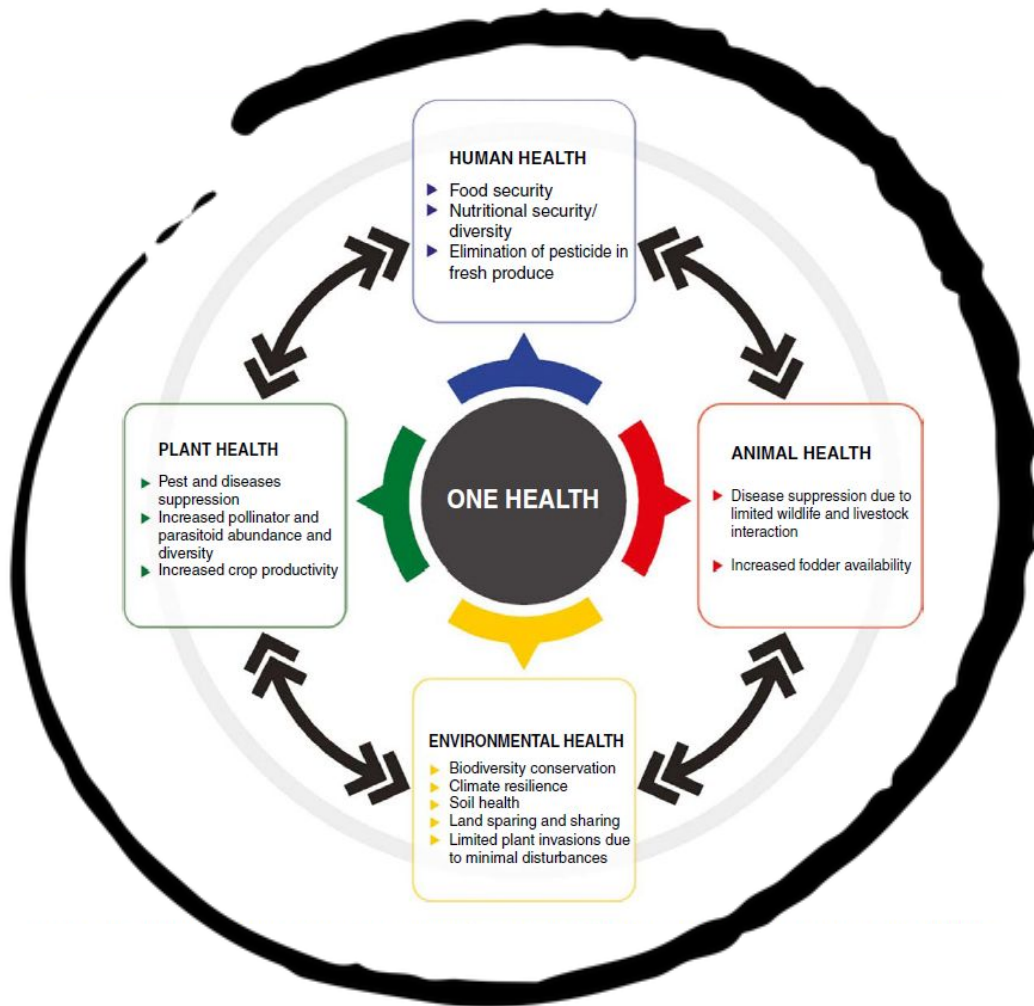
CONICET

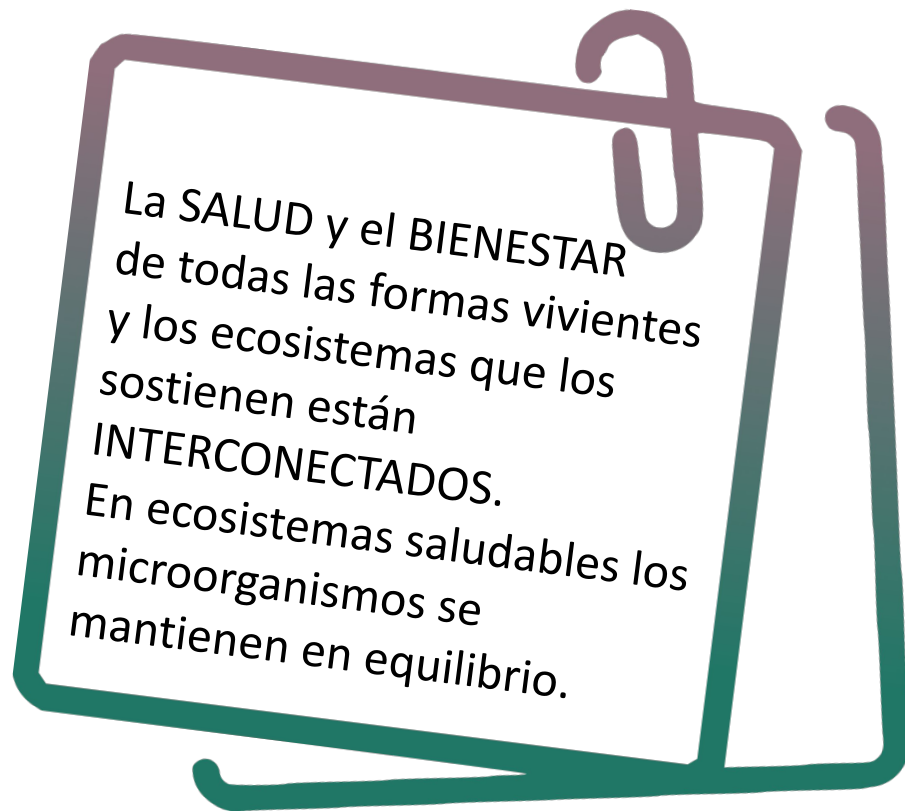
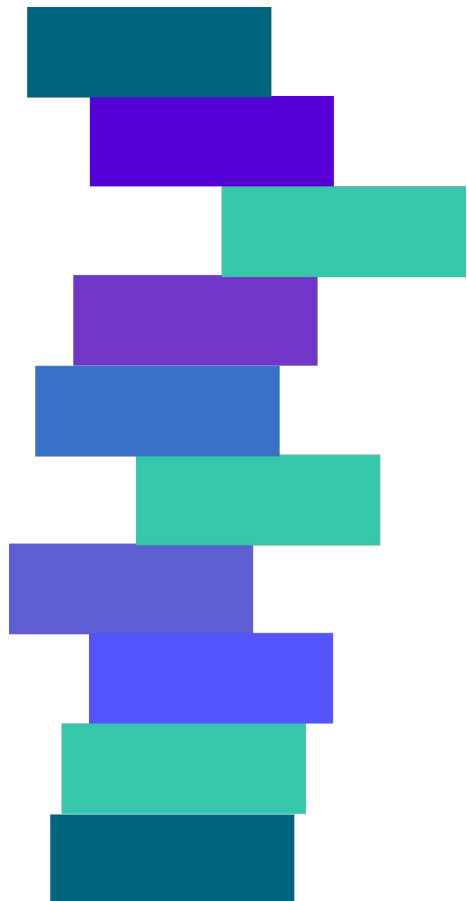


mwinter@unrn.edu.ar

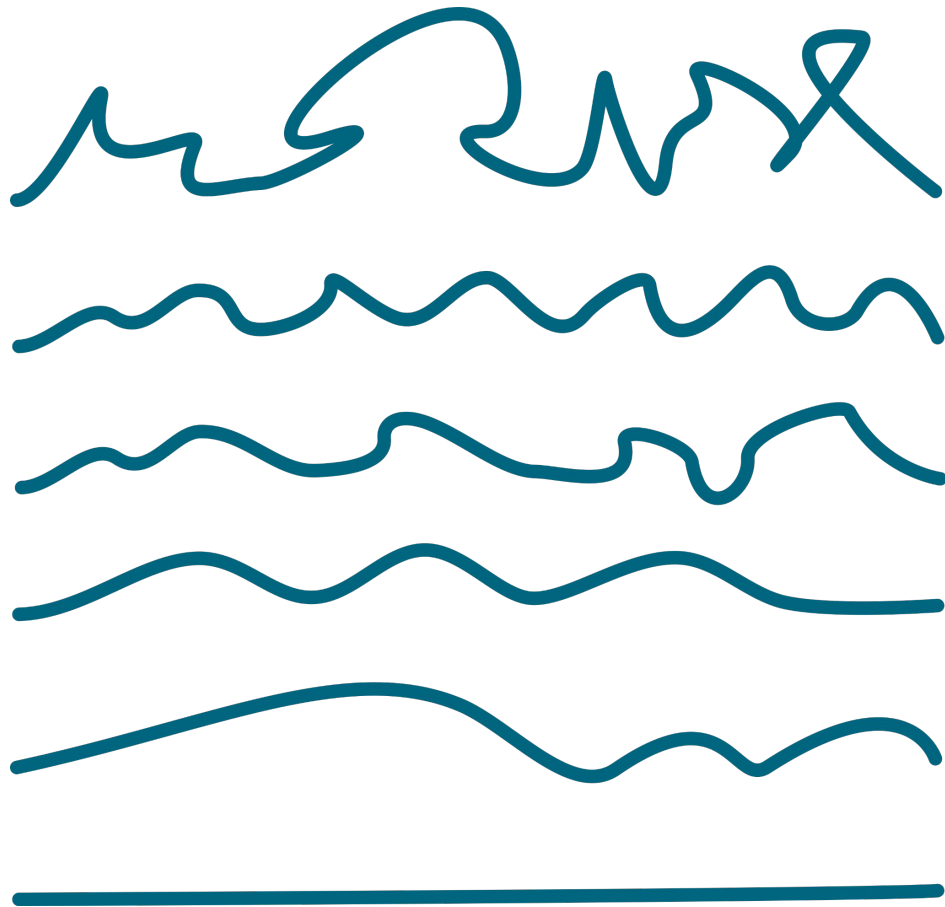


Las personas y la vida silvestre compartimos el mismo mundo, los ambientes, los hábitats, las mismas necesidades y los mismos desafíos básicos: asegurar comida y refugio, evitar depredadores y rivales, buscar seguridad y asegurarse de que su descendencia sobreviva y prospere.





Los animales silvestres viven en
ambientes cambiantes,
probablemente como nunca antes



crecimiento de la población humana avance de la urbanización
cambio en los sistemas productivos comercio de animales pérdida de hábitat naturales
cambio climático cambios en la calidad y distribución del agua
exposición a sustancias de origen antrópico



desestabilizan la dinámica de los ecosistemas

-Serrouya R et al. 2021. Trophic consequences of terrestrial eutrophication for a threatened ungulate. Proc. R. Soc. B 288: 20202811. <https://doi.org/10.1098/rspb.2020.2811>
-Zuluaga S et al. 2022. Flying wildlife may mask the loss of ecological functions due to terrestrial habitat fragmentation. Science of The Total Environment.
<https://doi.org/10.1016/j.scitotenv.2021.150034>

la biodiversidad está en CRISIS



Foto: Fernando Mariño



HOSPEDADORES SUSCEPTIBLES
DE ALTA CALIDAD (high-quality host)



HOSPEDADORES SUSCEPTIBLES
DE BAJA CALIDAD



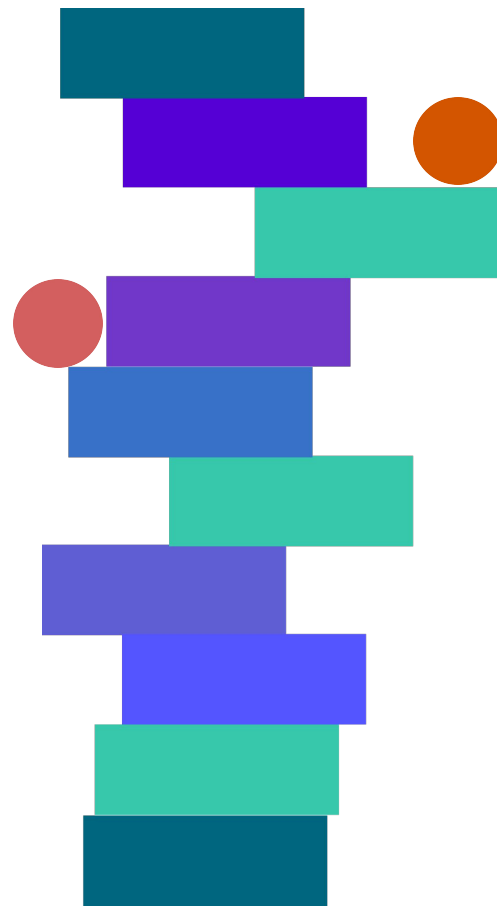
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NO SUSCEPTIBLES

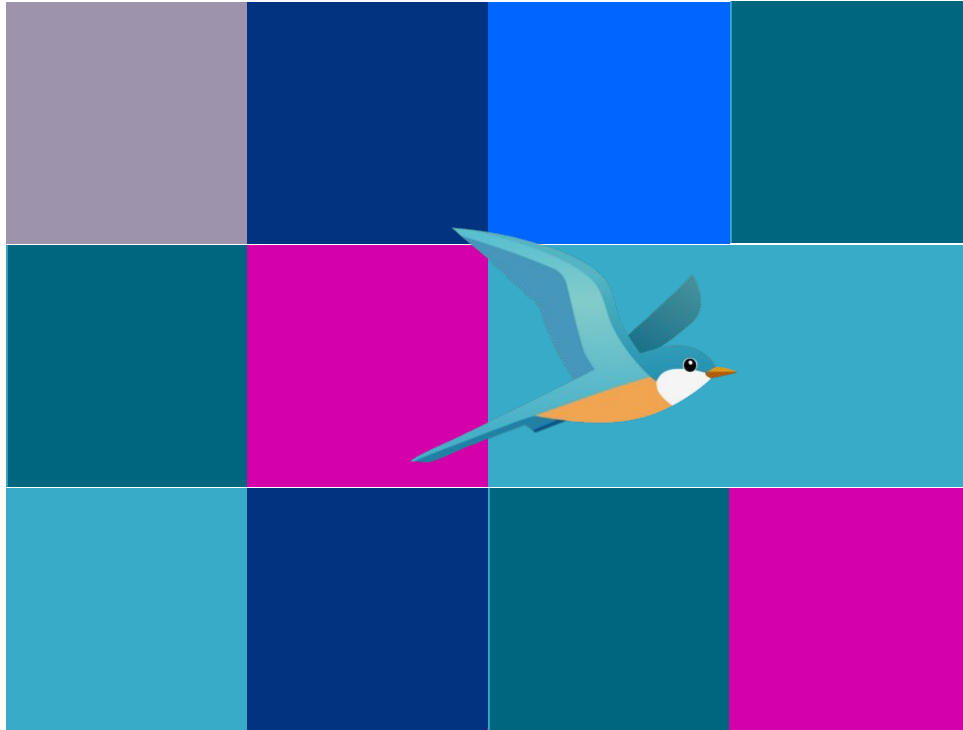


HOSPEDADORES
ALTERNATIVOS

interacciones biológicas

fauna nativa





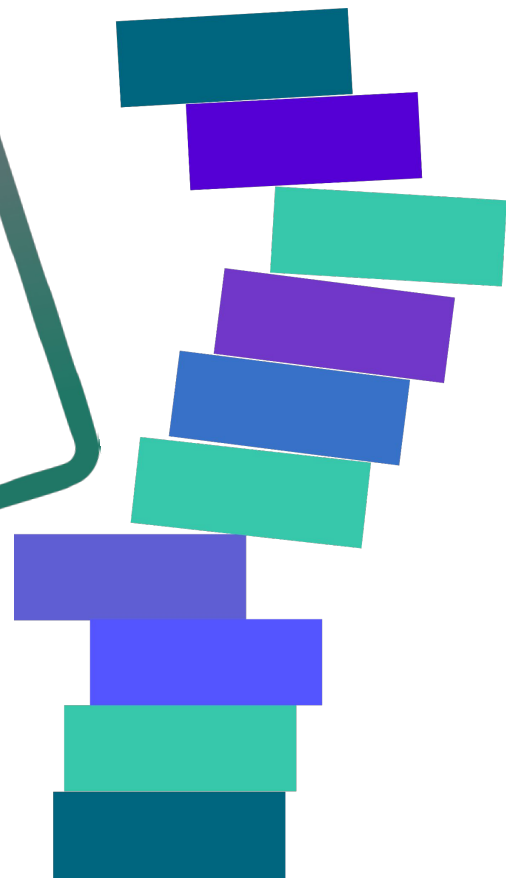
**interacciones
biológicas**

**funciones ecológicas de la
fauna silvestre y
contribución de la
naturaleza a las personas**

**los animales voladores
mantienen la
conectividad en hábitats
fragmentados**

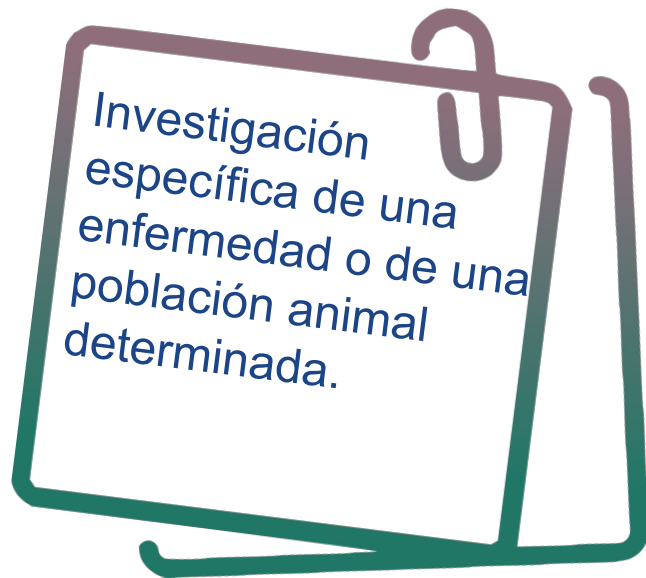


La pérdida del EQUILIBRIO
AMBIENTAL tiene
consecuencias, primero
sobre la salud local, luego
sobre la SALUD GLOBAL.






Un sistema de vigilancia de las enfermedades animales permite la detección temprana de las amenazas sanitarias. La acción preventiva ante cualquier brote podrían contener las enfermedades peligrosas antes de que causen daños y servir para preservar la sanidad de los animales y la de las personas.





Article

Assessment of *Trichinella* Infection in Animals from Argentina

Fernando A. Fariña^{1,2,*}, Mariana I. Pasqualetti^{1,2}, Marina Winter³, Sergio Abate³, Gustavo Daneri⁴, Ana Harrington² , Tatiana Aronowicz^{1,5}, Claudio Calvo⁶, Cecilia Lapuyade⁶, Florencia A. D'Francisco⁶ and M. Mabel Ribicich^{1,2}

Parasitology Research
<https://doi.org/10.1007/s00436-018-6116-z>

SHORT COMMUNICATION



Trichinella spiralis in a South American sea lion (*Otaria flavescens*) from Patagonia, Argentina

M. I. Pasqualetti^{1,2} • F. A. Fariña^{1,2} • S. J. Krivokapich³ • G. M. Gatti³ • G. A. Daneri⁴ • E. A. Varela⁴ • S. Lucero⁴ • M. E. Ercole¹ • C. Bessi¹ • M. Winter^{5,6} • M. M. Ribicich^{1,2}

Veterinary Parasitology: Regional Studies and Reports 11 (2018) 32–35



Contents lists available at ScienceDirect

Veterinary Parasitology: Regional Studies and Reports

journal homepage: www.elsevier.com/locate/vprsr

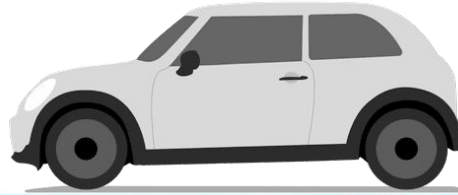


Original Article

Trichinellosis surveillance in wildlife in northeastern argentine patagonia

M. Winter^{a,b,*}, M. Pasqualetti^{c,d}, F. Fariña^{c,d}, M. Ercole^c, M. Failla^{e,g}, M. Perello^f, D. Birochio^{a,b}, S. Abate^{a,b}, M. Soricetti^{a,b}, M. Ribicich^{c,d}





www.nature.com/scientificdata

scientific data

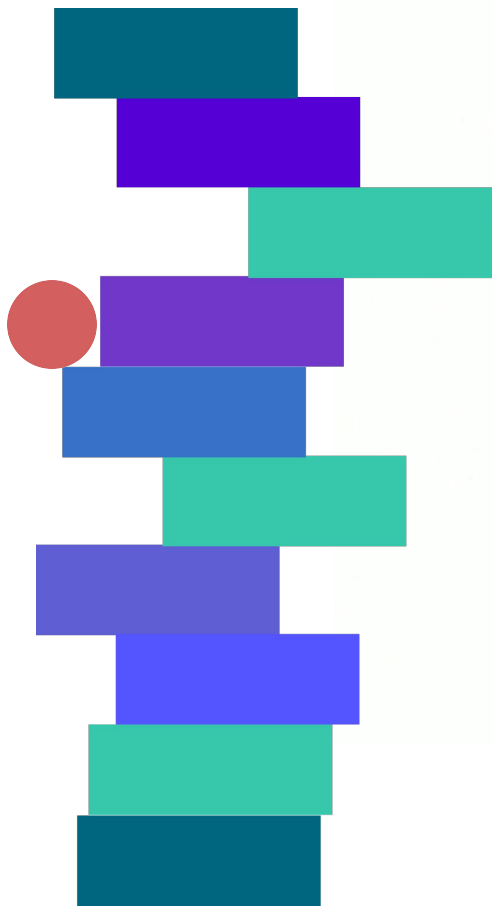
OPEN

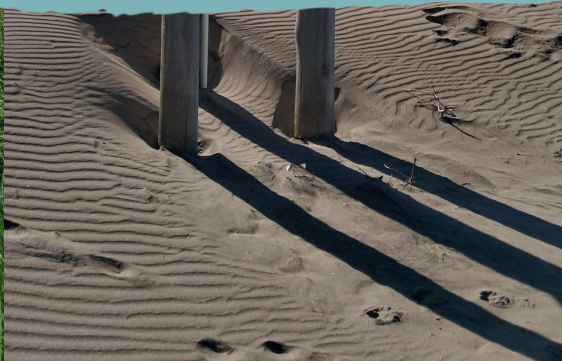
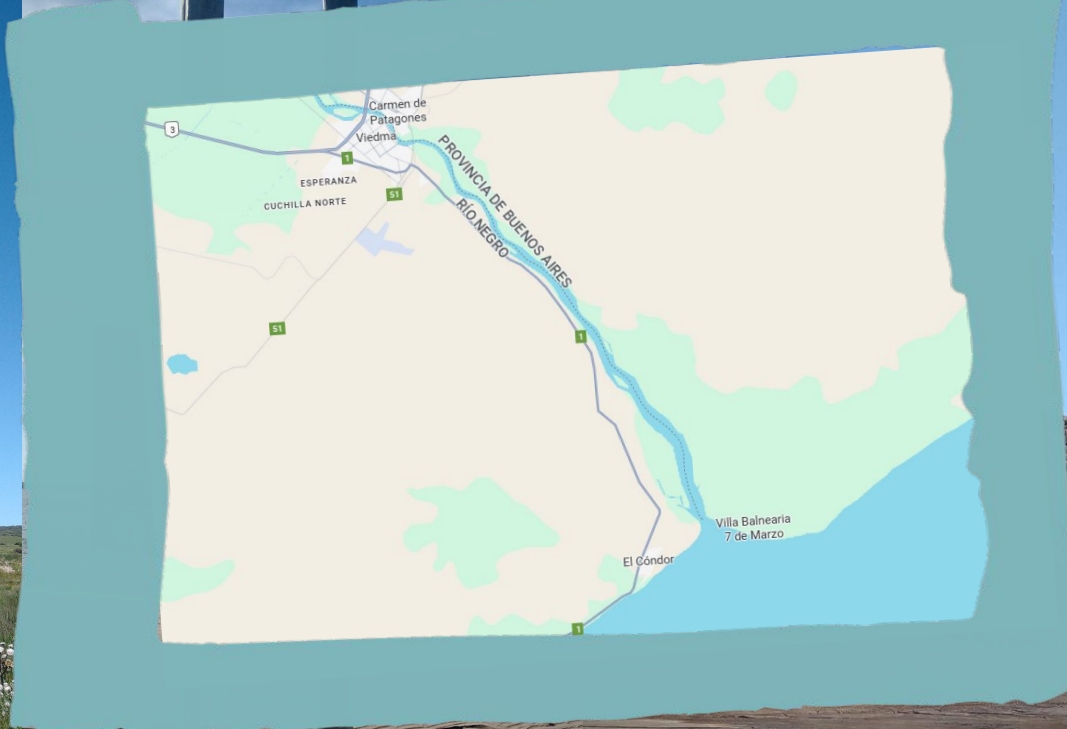
Check for updates

DATA DESCRIPTOR

Global Roadkill Data: a dataset on terrestrial vertebrate mortality caused by collision with vehicles

Clara Grilo^{1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039,1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055,1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071,1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1109,1110,1111,1112,1113,1114,1115,1116,1117,1118,1119,1120,1121,1122,1123,1124,1125,1126,1127,1128,1129,1130,1131,1132,1133,1134,1135,1136,1137,1138,1139,1140,1141,1142,1143,1144,1145,1146,1147,1148,1149,1150,1151,1152,1153,1154,1155,1156,1157,1158,1159,1160,1161,1162,1163,1164,1165,1166,1167,1168,1169,1170,1171,1172,1173,1174,1175,1176,1177,1178,1179,1180,1181,1182,1183,1184,1185,1186,1187,1188,1189,1190,1191,1192,1193,1194,1195,1196,1197,1198,1199,1200,1201,1202,1203,1204,1205,1206,1207,1208,1209,1210,1211,1212,1213,1214,1215,1216,1217,1218,1219,1220,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animals



Communication

Molecular Detection of *Candidatus Rickettsia andeanae* and *Ehrlichia* sp. in *Amblyomma pseudoconcolor* Aragão, 1908 (Acari: Ixodidae) from the Argentinian Patagonia

Patrick Stephan Sebastian ^{1,*}, Marina Winter ², Sergio Damián Abate ², Evelina Luisa Tarragona ¹ and Santiago Nava ¹

¹ Instituto de Investigación de la Cadena Láctea (IdICaL), CONICET—INTA, Ruta 34 km 227, 2300 Rafaela, Santa Fe, Argentina

² Centro de Investigaciones y Transferencia de Río Negro (CONICET-UNRN), Universidad Nacional de Río Negro, Sede Atlántica, Avenida Don Bosco 500, 8500 Viedma, Río Negro, Argentina

* Correspondence: sebastian.patrick@inta.gob.ar

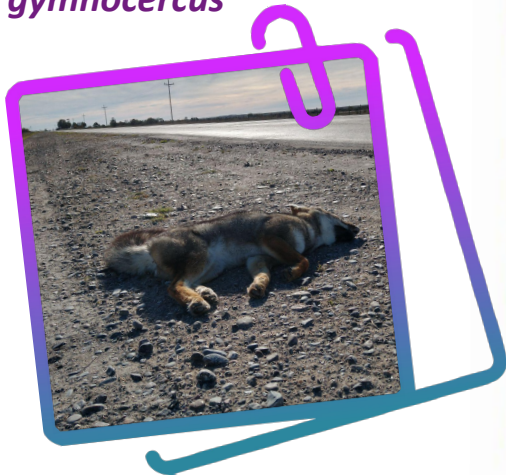


Chaetophractus villosus





Lycalopex gymnocercus



Experimental and Applied Acarology
<https://doi.org/10.1007/s10493-023-00874-4>

RESEARCH



Tick-borne microorganisms in *Amblyomma tigrinum* (Acari: Ixodidae) from the Patagonian region of Argentina

Marina Winter¹ · Patrick Stephan Sebastian² · Evelina Luisa Tarragona² ·
Fernando Sebastián Flores³ · Sergio Damián Abate¹ · Santiago Nava²

Received: 7 August 2023 / Accepted: 12 December 2023
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Table 1 *Amblyomma tigrinum* collected on dogs, humans, *Lycalopex gymnocercus*, and also from the environment in Rio Negro province, Argentina between 2020 and 2022 with results of the molecular detection of tick-borne microorganisms

Host	Host ID	Coordinates		<i>Amblyomma tigrinum</i>		Positive PCR samples		
		Latitude (S)	Longitude (W)	Female	Male	Anaplasmataceae	Apicomplexa	<i>Rickettsia</i> spp.
<i>Lycalopex gymnocercus</i>	LG 38	41° 01' 39"	62° 49' 44"	7	15	2FF/3MM	0	0
	LG 40	41° 01' 39"	62° 49' 44"	14	8	3FF/3MM	0	0
	LG 90	40° 53' 19"	62° 53' 37"	1	0	1F	0	0
	LG 95	40° 58' 49"	62° 50' 23"	0	1	0	0	0
	LG 100	41° 01' 20"	62° 49' 07"	2	2	0	0	0
	LG 101	41° 01' 20"	62° 49' 07"	4	4	1M	0	0
Dog	CAN 1	40° 49' 57"	62° 58' 59"	7	1	1F	0	0
	CAN 2	41° 02' 41"	62° 49' 33"	4	2	1M	0	0
	CAN 3	40° 50' 43"	62° 53' 26"	11	1	0	0	0
	CAN 4	40° 49' 57"	62° 58' 59"	1	0	0	0	0
	HS 1	41° 02' 49"	62° 49' 45"	3	1	0	0	0
Human	HS 2	41° 02' 49"	62° 49' 45"	1	0	0	0	0
	HS 3	41° 02' 49"	62° 49' 45"	0	1	0	0	0
	AMB	40° 49' 32"	62° 58' 19"	6	0	1F	0	0
Environment (non-parasitic)	AMB	40° 49' 32"	62° 58' 19"	6	0	1F	0	0
Total				61	36	8FF/8MM	0	0

F(F) = female(s); M(M) = male(s)

(16S rRNA) (HE3) (gItA)



ORIGINAL ARTICLE

Fleas of wild mammals carrying pathogenic bacteria in Argentinian Patagonia: A study based on wildlife roadkill

Pulgas de mamíferos silvestres portadoras de bacterias patógenas en la Patagonia argentina: un estudio basado en atropellamientos de fauna

Diana Belén Acosta ✉ Marina Winter, Sergio Damián Abate, Juliana Patricia Sanchez ✉

First published: 08 September 2025 | <https://doi.org/10.1111/mve.70012>

Diana Belén Acosta, Marina Winter are first authors.

Associate Editor: María Soledad Leonardi

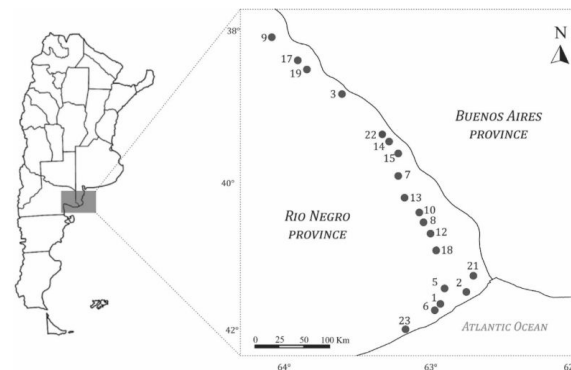


FIGURE 1 Sample sites of roadkilled wild meso-mammals collection in the extreme northeast of Rio Negro province, on the coast of the Atlantic Ocean, Argentinian Patagonia. The numbers represent the IDs of the different meso-mammals sampling sites (Supplemental material 1).



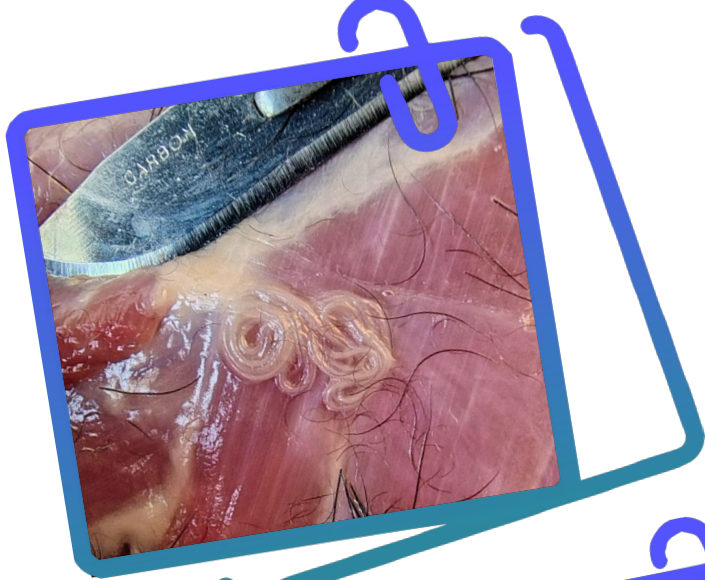
Didelphis albiventris



(gltA) (ompA) (ompB) (gltA) (rpoB)

TABLE 2 Detection of *Rickettsia* spp. and *Bartonella* spp. in fleas collected from wild native mammals in Patagonia, Argentina. The table includes host species, flea species and PCR results for each gene analysed.

Mammal species (N)	Flea species (N)	PCR positive for <i>Rickettsia</i> spp.			PCR positive for <i>Bartonella</i> spp.	
		<i>gltA</i>	<i>ompB</i>	<i>ompA</i>	<i>gltA</i>	<i>rpoB</i>
<i>Chaetophractus villosus</i> (3)	<i>Phthiropsylla agenoris</i> (13)	–	–	–	+	+
	<i>Malacopsylla grossiventris</i> (13)	–	–	–	–	–
	<i>Hectopsylla broscus</i> (19)	–	–	–	–	–
<i>Didelphis albiventris</i> (7)	<i>Ctenocephalides felis</i> (140)	+	+	+	–	–
<i>Lagostomus maximus</i> (6)	<i>Hectopsylla cypha</i> (14)	–	–	–	+	–
	<i>Pulex irritans</i> (14)	–	–	–	+	+
<i>Leopardus geoffroyi</i> (1)	<i>Ctenocephalides felis</i> (1)	–	–	–	–	–
	<i>Pulex irritans</i> (1)	–	–	–	–	+
<i>Lycalopex gymnocercus</i> (6)	<i>Phthiropsylla agenoris</i> (6)	–	–	–	–	+
	<i>Pulex irritans</i> (27)	–	–	–	+	+



Onchocercidae



Taeniidae



Galictis cuja

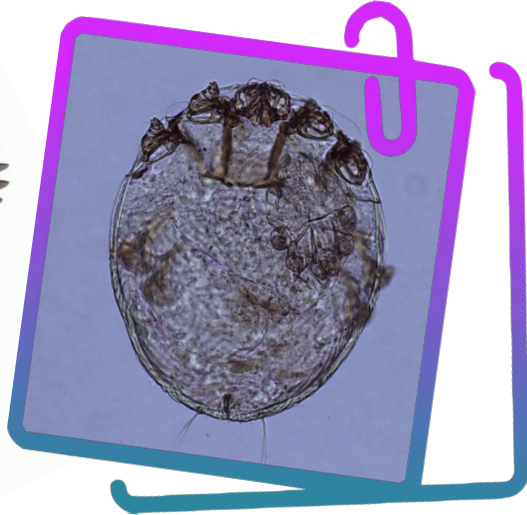




Cyanoliseus patagonus





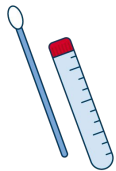


Knemidocoptes sp.
(Acari: Sarcoptiformes)



Heteromenopon sp.
(Phthirapthera)





Chlamydia spp.

qPCR (23srRNA)

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qPCR specific
C. psittaci (ompA)

qPCR specific
C. avium (incA)

4/5



1/5



PCR de punto final (ompA)

1 genotipo B

Herpesvirus (PsHVs)

qPCR (UL16) and
a semi-nested PCR (UL17/16)

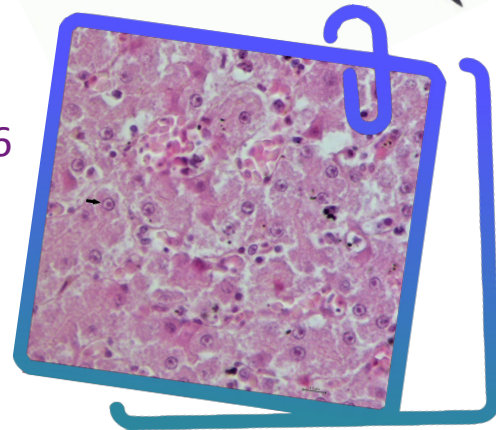
6/16



2 caracterizados como PsHVs 1



6/16



RESEARCH

Molecular identification of *Mycobacterium Bovis* in a Franciscana (*Pontoporia Blainvillei*) in Patagonia, Argentina

Marina Winter¹ · Sergio Damián Abate¹ · María Jimena Marfil² · Miguel Ángel Iníguez Bessega^{3,4} · Mauricio Failla^{4,5} · Loreana Carla Ponce^{2,6} · Indiana Piras² · Soledad Barandiaran⁶

Received: 29 April 2024 / Revised: 23 July 2024 / Accepted: 27 July 2024

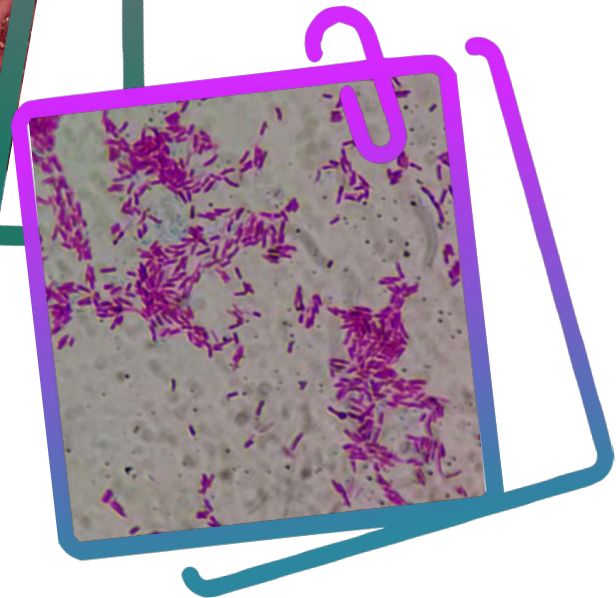
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Pontoporia blainvillei



Foto: M Failla



Pontoporia blainvillei

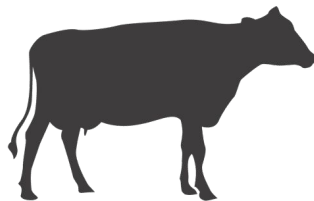
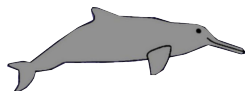




Table 1 Record of *Mycobacterium tuberculosis* complex (at least with bacterial culture) in aquatic mammals found dead or alive in nature, not in captivity

captive			
ORDER CARNIVORA: PINNIPEDIA			
South American Fur Seal	<i>Arctocephalus australis</i>	<i>M. bovis</i> MTBC	Argentina Argentina Uruguay
Subantarctic Fur Seal	<i>Arctocephalus tropicalis</i>	<i>M. pinnipedii</i> MTBC	Argentina Argentina Uruguay
		<i>M. pinnipedii</i> MTBC	Uruguay
		<i>M. pinnipedii</i> MTBC	New Zealand
New Zealand Fur Seals	<i>Arctocephalus forsteri</i>	MTBC	Australia
Australian Fur Seal	<i>Arctocephalus pusillus</i>	<i>M. pinnipedii</i> MTBC	Australia Argentina Uruguay
South American Sea Lion	<i>Otaria flavescens</i>	<i>M. bovis</i> MTBC	Argentina Argentina Uruguay
		<i>M. pinnipedii</i> MTBC	Uruguay
		<i>M. pinnipedii</i> MTBC	Brazil
New Zealand Sea Lion	<i>Phocartos hookeri</i>	<i>M. pinnipedii</i> MTBC	Brazil Brazil Argentina
		<i>M. pinnipedii</i> MTBC	Argentina Brazil
		<i>M. pinnipedii</i> MTBC	New Zealand New Zealand
New Zealand Sea Lion			
ORDER ARTIODACTYLA: CETACEA, ODONTOCETI			
Hector's dolphin	<i>Cephalorhynchus hectori</i>	<i>M. pinnipedii</i>	New Zealand
Striped dolphin	<i>Stenella coeruleoalba</i>	<i>M. bovis</i>	Italy
			Roe et al. 2019
			Di Presti et al. 2022

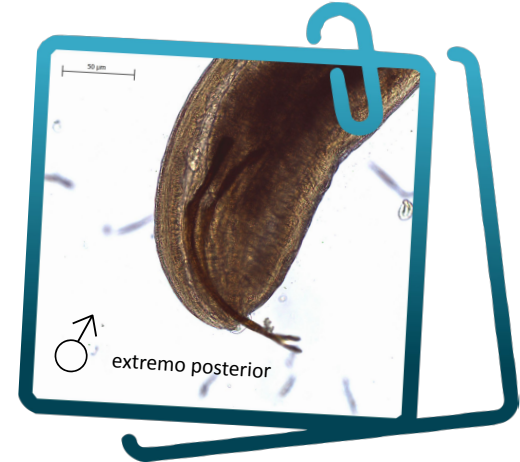
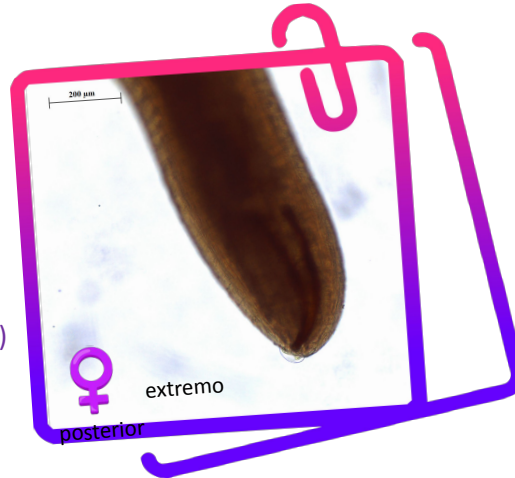




Tursiops truncatus geophyreus



Metastrongyloidea
(Fam. Pseudaliidae)







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Instituto Nacional de
Tecnología Agropecuaria





Dra. Marina Winter

CONICET



mwinter@unrn.edu.ar



Foto: F Mariño