

Title: Phenotypic plasticity in Adélie penguins' (*Pygoscelis adeliae*) physiology and immunity under anthropogenic pressure: a proteomic and biochemical scenario

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Supplementary Table 2. Serum proteins identified in serum samples from Adélie Penguin (*P. adeliae*) ($n_{HDZ} = 4$ and $n_{LDZ} = 4$) from both zones (HDZ and LDZ). Peptides matching with Chordata database (Uniprot) are listed and total score is reported, including protein names. These proteins displayed a significant threshold value of $P < 0.05$ and a peptide cut-off score of 20. Score represents the sum of the individual peptide scores. Proteins that showed a differential expression level between zones (HDZ and LDZ) are listed first and highlighted in bold.

Accession number	Protein name	Total Score ($P < 0.05$)
A0A093PLD6	Alpha-1-antitrypsin	101
A0A093NV14	Complement factor H	96
A0A093NJC7	Complement C4	96
A0A093R7V4	Vitamin D-binding protein	80
A0A093NSD6	Complement C3	64
A0A093NPW0	Beta-2-glycoprotein 1	62
P81605	Dermcidin	56
A0A1D5PVW1	Retinol binding protein 4	51
A0A093NJ67	Complement component C8 beta chain	40
A0A093NHQ3	Pantetheinase	36
A0A093NMA3	Ig lambda chain V-1 region	22
A0A093P0F9	Serum albumin	662
A0A093QVW5	Adiponectin	421
A0A093NBQ7	Complement C1q subcomponent subunit A	421

F1NV02	Apolipoprotein B	421
A0A093R3B0	Fetuin-B	368
A0A093RKW8	Alpha-2-macroglobulin	360
A0A093NZR4	Kininogen-1	357
A0A093NBQ7	Complement C1q subcomponent subunit A	349
A0A093NKY2	IgGFc-binding protein	341
A0A093NQE4	Complement component C8 alpha chain	283
A0A093NKF2	Hemoglobin subunit beta	283
A0A093NXT5	Transferrin receptor protein	283
P02788	Lactotransferrin	271
P0DOX2	Immunoglobulin alpha-2 heavy chain	243
A0A1D5PD98	Complement C5	242
A0A1D5PVD8	Apolipoprotein A-I	239
A0A093N8C7	Complement component C6	237
P56410	Ovotransferrin	234
P0DOX8	Immunoglobulin lambda-1 light chain	225
P01834	Immunoglobulin kappa constant	214
P0DOX5	Immunoglobulin gamma-1 heavy chain	214
A0A093N8L5	Plasminogen	208
A0A1D5PU00	Alpha-1-microglobulin/bikunin precursor	205
Q2UVX4	Complement C3	201
Q91WR8	Glutathione peroxidase 6	201
F1N803	Complement C1s	194
A0A093NM74	Complement component C7	193
A0A093N8C7	Complement component C6	192
A0A093NBH1	Heat shock protein HSP 90-alpha	192
P17066	Heat shock 70 kDa protein 6	183
A0A093P235	Fibronectin	180
A0A093NM74	Complement component C7	179
P37141	Glutathione peroxidase 3	172
A0A093P3I2	Fibulin-1	163

A0A093NZ42	Complement component receptor 1-like	147
A0A093NMD5	Alpha-2-antiplasmin	134
A0A093QQ36	Complement factor I	131
A0A093PBF1	Alpha-2-macroglobulin	120
A0A093NCH1	Heat shock cognate 71 kDa protein	119
A0A093NG18	Cholesteryl ester transfer protein	117
A0A093PFI4	Alpha-1-antiproteinase 2	105
A0A093NS91	Vitamin K-dependent protein S	102
A0A093PLD6	Alpha-1-antiproteinase 2	100
A0A093P454	Prothrombin	97
A0A093NJ00	Ovoinhibitor	95
A0A093NPR4	Alpha-amylase	95
A0A093N8L5	Plasminogen	91
A0A093P5T4	Transthyretin	89
A0A093QUA9	Ceruloplasmin	82
A0A093NQE2	Complement C1q subcomponent subunit B	75
A0A093NSD6	Complement C3	74
Q9W6Y1	Heat shock cognate 71 kDa protein	73
P01833	Polymeric immunoglobulin receptor	72
A0A093R3B0	Fetuin-B	62
P0CB50	Peroxiredoxin-1	62
A0A093NZY5	Inter-alpha-trypsin inhibitor heavy chain H2	61
A0A093P532	Carboxypeptidase Q	61
A0A093NNP3	Gelsolin	60
A0A093P532	Carboxypeptidase Q	57
A0A093NVU9	Peroxiredoxin-1	57
E1C7A7	Vitronectin	53
A0A093NZ42	Complement component receptor 1-like	53
A0A1D5P5L2	Coagulation factor V	53
F1NDN5	Uncharacterized protein	53
A0A093P3K1	Desmoplakin	52

A0A1I7Q422	Transthyretin	48
A0A093P5M8	Hemoglobin subunit alpha	48
A0A093NE67	Hemoglobin subunit beta	45
O93510	Gelsolin	44
A0A093NKI5	Vitronectin	43
P20004	Aconitate hydratase, mitochondrial	43
P02788	Lactotransferrin	42
A0A093NVR0	Phosphatidylinositol-glycan-specific phospholipase D	41
A0A093RLU9	Heparin cofactor 2	39
Q95JR7	Glycerophosphodiester phosphodiesterase domain-containing protein 4	39
F1NXV6	Coagulation factor II, thrombin	39
P31025	Lipocalin-1	38
P31025	Lipocalin-1	37
A0A1D5P8H4	Uncharacterized protein	37
P02755	Beta-lactoglobulin	35
F1NRM4	Chitobiase	34
A0A093P939	Angiotensinogen	32
P25691	Keratin, type II microfibrillar, component 5	31
Q86YZ3	Hornerin	28
A0A093NNI9	Lamin-B2	28
P60712	Actin, cytoplasmic 1	26
A0A093NNB8	Inter-alpha-trypsin inhibitor heavy chain H3	25
A0A093NNN6	Pentaxin	24
E1C7M0	Carboxypeptidase N subunit 1	23
F1NWX6	Neural EGFL like 2	23