

# Supporting information

## S1 Physical attributes used to determine the degree of similarity between the rhinoceros and various animals.

Decision Matrix for Permittivity and Conductivity Weighting Factors													
Criteria: Similarity to Rhinoceros	Available Points	Animals											
		Bovine	Canine	Equine	Feline	Frog	Human	Mouse	Ovine	Pinniped	Porcine	Rabbit	Rat
Mammal	0 – 1	1 [1]	1 [2]	1 [2]	1 [2]	0 [2]	1 [3]	1 [4]	1 [5]	1 [6]	1 [7]	1 [2]	1 [2]
Ungulate (Odd-Toed)	0 – 2	1 [8]	0*	2 [8]	0*	0*	0*	0*	1 [8]	0*	1 [8]	0*	0*
Hindgut Fermenter	0 – 1	0*	0*	1 [9]	0*	0*	0*	1 [9]	0*	0*	0*	1 [9]	1 [9]
Herbivorous	0 – 2	2 [9] [10]	1 [11] [2]	2 [9] [10]	0 [2]	1 [2]	1 [10] [12]	2 [9] [10]	2 [9] [10] [5]	1 [13]	1 [7]	2 [9] [2]	1 [2]
Primarily Solitary	0 – 1	0*	0*	0*	0*	1 [14]	0*	0*	0 [5]	0*	0 [7]	0*	0*
Territorial (Males Battle)	0 – 1	0*	1 [15]	0*	1 [15]	1 [15]	1 [15]	1 [15]	1 [5]	1 [15]	0 [7]	1 [15]	1 [15]
Horn (True Horn or Boneless)	0 – 2	1 [16] [17]	0*	0*	0*	0*	0*	0*	1 [16] [17]	0*	0*	0*	0*
Vision	0 – 2	1 [18]	1 [19] [20]	1 [18] [20]	2 [19] [20]	1 [21]	0 [18] [22]	1 [23]	1 [18]	0 [24]	1 [25]	0 [26]	1 [27]
Audition	0 – 2	1 [28] [29]	1 [28] [29]	2 [28] [29]	1 [28] [29]	0 [29]	1 [28] [29]	0 [28] [29]	1 [28] [29]	1 [30] [31]	1 [32]	0 [28] [29]	0 [29]
Olfaction	0 – 2	2 [33]	2 [34] [33]	2 [33]	1 [35]	0 [34]	1 [34]	2 [34] [33]	2 [36]	2 [37] [38]	2 [39]	1 [40] [41]	1 [34] [33]
Habitat	0 – 2	2 [42]	1 [42]	2 [42]	1 [42]	1 [42]	1*	1 [42]	1 [42]	0 [42]	1 [42]	1 [42]	1 [42]
Prehensile Lip	0 – 1	1 [43]	0*	1 [44]	0*	0*	1 [45]	0*	1 [43]	0*	0*	1 [46]	0*
Weight	0 – 2	1 [47] [48]	0 [47] [48]	1 [47] [48]	0 [49] [47] [48]	0 [49] [29]	0 [50]	0 [49] [47] [48]	0 [51] [52] [47] [48]	1 [33] [47] [47] [48]	0 [47] [48]	0 [49] [47] [48]	0 [53] [47] [48]
Skin Thickness	0 – 3	3 [54] [55]	1 [56] [57] [55]	1 [58] [55]	1 [56] [55]	0 [59]	1 [60] [?]	0 [61]	1 [1] [20]	2 [1] [20]	1 [1] [20] [55]	1 [62]	0 [60]
Collagen Content of Skin	0 – 3	3 [63] [64] [65] [66]	1 [67] [65]	3 [68] [64]	1 [69]	0 [70] [71]	2 [65] [66] [60]	1 [72]	2 [64] [66]	3 [73]	3 [63] [64] [65] [66] [74]	1 [75]	1 [65] [53]
Fat Layer	0 – 3	2 [76] [77]	0 [57]	2 [78] [79]	0 [80]	0*	1 [81] [82]	0 [83]	1 [51] [84] [52] [77]	2 [85] [1] [20]	2 [77] [20]	0 [86]	0 [87]
Body Length	0 – 2	2 [88] [12]	0 [89]	3 [90] [12]	0 [49]	0 [49]	1 [49]	0 [31]	1 [91]	2 [33]	1 [92]	0 [49]	0 [93]
Body Height	0 – 2	2 [88] [12]	1 [89] [29]	2 [29] [12]	0 [29]	0 [29]	2 [50]	0 [94]	1 [32]	2 [33]	1 [34]	0 [29]	0 [29]
Intestines/Organs	0 – 3	2 [95] [12]	0 [96] [97]	3 [98] [12]	0 [96] [97]	0 [99]	1 [96] [100]	0 [101]	1 [96] [102]	1 [103]	1 [96] [102]	0 [96]	0 [96] [101]
Skeletal Structure	0 – 3	3 [104] [60] [12]	1 [57] [97]	2 [98] [12]	1 [104] [97]	0 [104] [99]	1 [96] [100]	1 [105]	1 [96] [106]	1 [103]	2 [104]	1 [107]	1 [96]
Straight Legs	0 – 1	1 [95] [12]	1 [57] [97]	1 [98] [12]	1 [104] [97]	0 [99]	1 [100]	0 [105]	1 [106]	0 [103]	1 [104]	0 [107]	0 [107]
Swiveling Ears	0 – 1	1 [95]	1 [108]	1 [109]	1 [108]	0 [110]	0 [100]	1 [111]	1 [112]	0 [103]	0 [113]	1 [114]	1 [115]
Thermal Properties of Organs	0 – 3	3 [96] [116] [117]	1 [96] [117]	3 [118]	1 [96]	0 [119]	2 [96] [117]	0 [120]	2 [96] [116] [117]	2 [96] [117] [118]	2 [96] [116] [117]	1 [96] [117]	1 [96]
Water Content of Organs	0 – 3	2 [77] [118]	1 [121]	3 [122] [118]	2 [123]	0 [124]	3 [125] [121]	1 [126]	2 [52] [77] [118]	2 [127] [118]	2 [77] [118]	1 [128]	1 [128]
Points Total	Max (48)	37	16	39	15	5	22	13	26	24	24	14	12
Multiplier Total	Max (327)	262	85	264	84	11	151	67	164	174	171	89	69

\* Indicates behavioural or physical attributes that are not distinctly profound or directly comparable to the rhinoceros since their function or usage may vary depending on the breed, location or species. It also indicates commonly known animal traits that are consequently not supported by a citation.

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