

**Bibliographie du site internet**  
**<http://www.baillement.com>**  
**[walusinski@baillement.com](mailto:walusinski@baillement.com)**

933 références 28 mai 2023

1. -Aaron S, Al Hashmi A. Parakinesia Brachialis Oscitans due to Brain Stem Infarct. Dubai Medical journal - Case report – May 2019
2. -Abadie V, Chéron; G, Lyonnet S, Hubert P Couly G Le dysfonctionnement néonatal isolé du tronc cérébral Arch Pédiatr 1996;3:130-136
3. -Abadie V, Champagnat J, Fortin G, Couly G Succion-déglutition-ventilation et gènes du développement du tronc cérébral Arch Pédiatr 1999;6:1043-1047
4. -Abe K et al. Occurrences of Yawn and Swallow are Temporally Related. Dysphagia .2014
5. -AboEllail MAM, Kanenishi K, Mori N, Mohamed OAK, Hata T.4D ultrasound study of fetal facial expressions in the third trimester of pregnancy. J Matern Fetal Neonatal Med. 2017
6. -Adelon Nicolas bâillement dictionnaire de médecine tome 3 Béchet Jeune Paris 1821
7. -Adolphs R, H Damasio, D Tranel, A Damasio Cortical systems for the recognition of emotion in facial expressions J Neurosci 1996;16(23):7678-7687
8. -Agbara R, Fomete B, Obiadazie AC, Idehen K, Okeke U. Temporomandibular joint dislocation: experiences from Zaria, Nigeria. J Korean Assoc Oral Maxillofac Surg. 2014;40(3):111-6.
9. -Aloe F Yawning. Arq Neuropsiquiatr 1994;52(2)27-36
10. -Alstadhaug KB, Andreou AP. Caffeine and Primary (Migraine) Headaches Frontiers in Neurology 2019;10:1275
11. -Alves NP, de Carvalho M, Reimão S, Castro J, Fonseca AC, Canhão P. Voluntary control of a plegic limb during yawning. J of Neurol 2018;265(2):433-435
12. --Amici F, Aureli F, Call J. Response facilitation in the four great apes: is there a role for empathy? Primates. 2014;55(1):113-118
13. -Aminoff Michael J Yawning Neurology and general medicine Churchill Livingston New York
14. -Anias-Calderon J et al Adrenalectomy and dexamethasone replacement on yawning behavior Behav Brain Res 2004;154:255-259
15. -Anias J, Homgren B, Urba Holmgren, Eguibar JR Circadian variation of yawning behavior Acta Neurobiol Exp 1984;44:179-186
16. -Anderson JR, Wunderlich D Food-reinforced yawning in Macaca tonkeana American Journal of Primatology 1988;16:165-169
17. -Anderson JR et al Contagious yawning in chimpanzees The Royal Society Biology Proc R Soc Lond B Biol Sci 2004;271 Suppl 6:S468-470
18. -Anderson JR et al Psychological influences on yawning in children Current Psychology Letters Behaviour, brain, cognition 2003;2(11)
19. -Anderson JR, Matsuzawa T Yawning, an opening into empathy in Cognitive Development in Chimpanzees. Springer 2006:233-245
20. -Anderson J. One Thousand of Yawns. Primates 2020;61:729-740
21. -Andy OJ, Jurko M Diencephalic seizures Appl neurophysiol 1983;46:62-67
22. -Arai K; Kita K; et al Progressive dysautonomia in hemangioblastoma in the region of the fourth ventricle No To Shinkei 1986;38(2):195-200.
23. -Argiolas A, Melis MR, Gessa GL Intraventricular oxytocin induces yawning and penile erection in rats Europ J Pharmacol 1985;117:395-396
24. -Argiolas A et al Oxytocin : an extremely potent inducer of penile erection and yawning in male rats Europ J Pharmacol 1986;130:265-272
25. -Argiolas A, Gessa GL Central functions of oxytocin. Neurosci Biobehav Rev 1991;15(2):217-231
26. -Argiolas A, Melis MR The neuropharmacology of yawning Eur Pharmacol 1998;343(1):1-16
27. -Argiolas A, Melis MR; Gessa GL Yawning and penile erection: central dopamine-oxytocin-adrenocorticotropin connection. Ann N Y Acad Sci 1988;525:330-7
28. -Argiolas et al Oxytocin-induced penile erection and yawning in male rats: effect of neonatal monosodium glutamate and hypophysectomy Psychopharmacology 1989;97:383-387
29. -Argiolas A et al Role of calcium in the expression of ACTH-induced stretching, yawning and penile erection Brain Research Bulletin 1990; 24:853-856
30. -Argiolas A, Melis MR, Murgia S, Schioth HB, ACTH and alpha-MSH induced grooming; stretching; yawning and penile erection in male rats: site of action in the brain and role of melanocortin receptors. Brain Res Bull 2000;51(5):425-31
31. -Argiolas A, Melis MR, Gessa GL Yawning: neurochemistry; physiology and pathology Cephalgia 1987;7(suppl 6):131-137
32. -Argiolas A, MR Melis et al Monosodium glutamate does not alter ACTH- or apomorphine-induced penile erection and yawning Pharmacol Biochem Behav 1987;26:503-507

33. -Argiolas A, Gessa GL Paraventricular nucleus lesion prevents yawning and penile erection induced by apomorphine and oxytocin but not by ACTH in rats *Brain Research* 1987;421:349-352
34. -Argiolas A, Melis MR Oxytocin-induced penile erection and yawning: role of calcium and prostaglandins *Pharmacol Biochem Behav* 1990;35(3):601-605
35. -Arnott SR, Singhal A, Goodale MA. An investigation of auditory contagious yawning. *Cogn, Aff Behav Neuosci.* 2009;9(3):335-342
36. -Asencio M et al Biochemical and behavioral effects of boldine and glaucine on dopamine systems *Pharmacol Biochem Behav* 1999;62(1):7-13
37. -Askenasy JJ Is yawning an arousal defense reflex? *J Psychol* 1989;123(6):609-621
38. -Askenazy JJ Askenazy N Inhibition of muscle sympathetic nerve activity during yawning *Clinical Autonomic Research* 1996;6:237-239
39. -Atanasov AT. Stabilizing Effect of Yawning on Nasal Cycle. *Global Neuro* 2020;1(2):107-109.
40. -Aubin HJ, Garma L le bâillement *Psychiatrie & psychobiologie* 1988;3:275-286
41. -Aubin HJ, Garma L Yawning: a vigilance-enhancing factor? *Sleep Res* 1989;18:4
42. -Auer H, Feldner-Bustin G, Hermentin K, Kollegger H, Schmidbauer M. Zerebrale Zystizerkose: Ein Fallbericht. *Tropenmed, Parasitol* 1987;9:101-109
43. -Aumente Baena J Contribucion a la clinica de los bostezos *Revista Clinica Espanola* 1953;(12):308-314
44. -Aureli F, de Waal FB Inhibition of social behavior in chimpanzees under high-density conditions. *Am J Primatol* 1997;41(3):213-28
45. -Avidan A Dislocation of the temporomandibular joint due to forceful yawning during induction with propofol *J Clin Anesth*; 2002;14:159
46. -Ayappa I, Rapaport D The upper airway in sleep: physiology of the pharynx *Sleep Med Reviews* 2003;7(1)9-33
47. -Aychet J, Blois-Heulin C, Palagi E, Lemasson A. Facial displays in red-capped mangabeys (*Cercocebus torquatus*): Repertoire, social context, and potential intentionality. *J Comp Psychol.* 2021;135(1):98-113.
48. -Baenninger R, Binkley S, Baenninger M Field observations of yawning and activity in humans. *Physiol Behav* 1996;59(3):421-425
49. -Baenninger R Some comparative aspects of yawning in *Betta sleepnes; Homo Sapiens; Pantera leo and Papio sphinx J.Comp. Psycho* 1987;101:349-354
50. -Baenninger R, Greco M Some antecedents and consequences of yawning *Psychological Record* 1991;41:453-460
51. -Baenninger R On yawning and its functions *Psychonomic Bulletin & review* 1997;4; 2; 198-207
52. -Baggio G, Ferrari F The role of dopaminergic receptors in the behavioral effects induced by lisuride in male rats *Psychopharmacology* 1983;80:38-42
53. -Balaban E Changes in multiple brain regions underlie species differences in a complex; congenital behavior *Proc Natl Acad Sci USA*; 1997;94:2001-2006
54. -Baladi MG, Newman AH, France CP. Dopamine D3 receptors mediate the discriminative stimulus effects of quinpirole in free-feeding rats. *J Pharmacol Exp Ther.* 2010;332(1):308-315
55. -Baladi MG, Newman AH, France CP. Influence of body weight and type of chow on the sensitivity of rats to the behavioral effects of the direct-acting dopamine-receptor agonist quinpirole. *Psychopharmacology (Berl).* 2011;217:573-585
56. -Baladi MG, Thomas YM, France CP. Sensitivity to apomorphine-induced yawning and hypothermia in rats eating standard or high-fat chow. *Psychopharmacology (Berl).* 2012;222(1):27-36
57. -Baldwin DM et al. Effects of intraventricular infusions of ACTH 1-24 and ACTH 4-10 on LH release, ovulation and behavior in the rabbit *Brain Research* 1974;80:291-301
58. -Banks RJ, Mozley L, Dourish CT. The angiotensin converting enzyme inhibitors captopril and enalapril inhibit apomorphine-induced oral stereotypy in the rat. *Neuroscience.* 1994;58(4):799-805
59. -Barbeau A, Gonce M, Kastin AJ Neurologically active peptides *Pharmacol Biochem Behav* 1976;5 (suppl 1):159-63
60. -Barbizet J Yawning *J Neurol Neurosurg Psychiat* 1958;21:203-209
61. -Barbizet J Le bâillement *Le Concours Médical* 1958;80(5):537-548
62. -Barbizet J Bâillement et vigilance *Revue de gérontologie* juin 1959
63. -Barlow G Ethology of the Asian Teleost *Badis badis Zeitschrift für Tierpsychology* 1964;21:99-123
64. -Barthamus GT, SZielinski W. *Xenopus Skin Mucus Induces Oral Dyskinesias Pharmacol Biochem Behav* 1988;30:957-959
65. -Bartholomew AJ, Cirulli ET. Individual Variation in Contagious Yawning Susceptibility Is Highly Stable and Largely Unexplained by Empathy or Other Known Factors. *PLoS One.* 2014;9(3):e91773.
66. -Bartlett RH et al Physiology of yawning and its application to postoperative care *Surgical Forum* 1970;21: 222-223
67. -Bartlett RH et al The yawn maneuver: prevention and treatment of postoperative pulmonary complications *Surgical Forum* 1971;22:196-198

68. -Barros H et al Behavioural manifestations elicited by apomorphine, influence of the route of administration *Pharmacology* 1989;38:335-340
69. -Bauer G, Gerstenbrand F, Hengl W Involuntary motor phenomena in the locked-in syndrome *J Neurol* 1980;223(3):191-8
70. -Bayri Y, Tanrikulu B, Bayrakli F, Koç DY, Dağçınar A. Intractable yawning caused by foramen magnum meningioma in a patient with neurofibromatosis type 2. *Neurol India* 2015;63:107-9
71. -Beale MD, Murphree TM Excessive yawning and SSRI therapy. *Int J Neuropsychopharmacol* 2000;3(3):275-276
72. -Beckmann H; Zimmer R An ethological interpretation of stereotypy induced by environmental stimulus *Arch Psychiatr Nervenkr* 1981;230(1):81-89
73. -Bees HD et al. Behavioral and biochemical responses of mice to the intraventricular administration of acth analogs and lysine vasopressin. *Life Sci* 1976;18:1333-1340
74. -Beltramo M, de Fonseca et al Reversal of dopamine D2 receptor responses by an anandamide transport inhibitor *J Neurosci* 2000;20(9):3401-3407
75. -Béné J et al. Serotonin and yawning: A possible adverse drug reaction during antidepressant therapy, *Presse Med* 2014;
76. -Benoit A, Caplier A Hypovigilance analysis: blinking or yawning frequency *Advanced Video and Signal Based Surveillance* 2005:207-212
77. -Benoit A, Bonnard L et al. Multimodal focus attention and stress detection and feedback in an augmented driver simulator. *Pers Ubiquit Comput* 2009;13:33-41
78. -Bentley JC et al Investigation of stretching behaviour induced by the selective S-HT6 receptor antagonist, Ro 04-6790, in rats *British J Pharmacol* 1999;126:1537-1542
79. -Berendsen HG Androgenic influences on apomorphine-induced yawning in rats *Behavioral and neural biology* 1981;33:123-128
80. -Berendsen HG, Gower AJ Opiate influences on drug-induced yawning in the rat *Behav Neural Biol.* 1981;33(1):123-128
81. -Berendsen HG, Gower AJ Opiate-androgen interactions in drug-induced yawning and penile erections in the rats *Neuroendocrinology* 1986;42:185-190
82. -Berendsen H et al Involvement of 5-HT1c-receptors in drug-induced penile erections in rats *Psychopharmacology* 1990;101:57-61
83. -Bernardi MM, Kirsten TB, Lago JH et al. *Nepeta cataria* L. var. *citriodora* (Becker) increases penile erection in rats. *J Ethnopharmacol* 2011;137(3):1318-1322
84. -Bertschy G, Vandel S, Sechter D, Bizouard P Bâillements et excitation sexuelle sous clomipramine. Place des mécanismes serotoninergiques. A propos of 2 cases *Encephale* 1991;17(6):515-517
85. -Bertolotti M. Etude sur la pandiculation automatique des hémiplégiques *Rev Neurol* 1905;2(19):953-959
86. -Bertolucci LF Pandiculation: nature's way of maintaining the functional integrity of the myofascial system? *J Bodyw Mov Ther.* 2011;15(3):268-280.
87. -Berzin F, Fortinguerra CR. EMG study of the anterior, superior and posterior auricular muscles in man. *Ann Anat.* 1993;175(2):195-197
88. -Beyaert CA , et al Effect on airway caliber of stimulation of the hypothalamic locomotor region *J Appl Physiol* 1998;84:1388-1394
89. -Bidat E, Sznajder M, Fermanian Elaboration d'un questionnaire diagnostique du syndrom d'hyperventilation chez l'enfant *Rev Mal Respir* 2008;25(7):829-838
90. -Bigot-Massoni D Le bâillement Thèse de doctorat en médecine Fac Lariboisière Prof CH Chouard 1989
91. -Billard et coll Troubles de l'éveil et du sommeil *Revue du Praticien* 1996;46:20
92. -Bielert C Testosterone Propionate Treatment of an XY Gonadal Dysgenetic Chacma Baboon. *Hormones Behav* 1985;19:372-385
93. -Billeth R, Jorgler E, Baumhackl U Bilateral anterior operculum syndrome *Nervenarzt* 2000;71(8):651-4
94. -Birca V, Saint-Martin C, Myers KA. A sign of brainstem involvement in acute disseminated encephalomyelitis ? *Neurology* 2020;94:1-2.
95. -Blau JN. Resolution of migraine attacks: sleep and the recovery phase. *J Neurol Neurosurg Psychiatry.* 1982;45(3):223-226
96. -Blau JN Migraine postdromes: symptoms after attacks *Cephalalgia* 1991;11;(5):229-31
97. -Blin, Danjou, Warot,, Fondarai, Puech Induction of yawning by low doses of apomorphine *Psychiatr et psychobiol;* 1988;3:195-199
98. -Blin O, Masson G, Azulay JP, Fondarai J, Serratrice G Apomorphine-induced blinking and yawning in healthy volunteers. *Br J Clin Pharmacol* 1990;30(5):769-73
99. -Blin O, Azulay JP, Masson G, Aubrespy G, Serratrice G Apomorphine-induced yawning in migraine patients: enhanced responsiveness *Clin Neuropharmacol* 1991;14(1):91-5
100. -Blin O, Rasol O, Azulay JP, Serratrice G A single report of an hemiplegic arm stretching related to

- yawning: further investigation using apomorphine administration *J Neuro Sci* 1994;126:225-227
101. -Blin O le bâillement en neuropsychopharmacologie clinique. *Lettre du pharmacologue* 1996;10:217-219
  102. -Blin O, Azulay JP, Masson G, Serratrice G Le bâillement; physiopathologie et neuropharmacologie *Thérapie* 1991;46:37-43
  103. -Boone DR, McFarlane SC A critical view of the yawn-sigh as a voice therapy technique *J Voice* 1993;7(1):75-80
  104. -Bordiushkov IuN A method of graphic registration of the act of yawning and others form of mouth movements *Biull Eksp Biol Med* 1958;46(7):885-887
  105. -Borsini F, Bordi F, Riccioni T. 5-HT6 pharmacology inconsistencies. *Pharmacol, Biochem, Behav.* 2011;98: 169-172
  106. -Bourson A, Moser PC Yawning induced by apomorphine; physostigmine or pilocarpine is potentiated by dihydropyridine calcium channel blockers *Psychopharmacology (Berl)* 1990;100(2):16-20
  107. -Bourson A The effects of pre and post-operative procedures on physostigmine and apomorphine induced yawning in rats *Br J Pharmacology* 1989;34:915-917
  108. -Bouyssou M, Tricoire J Experimental detection of a cervical arousal mechanism of yawning, enhancing intracerebral (CSF) fluid pressure *J Dental Res* 1985;64:721
  109. -Brainin M, Elsenstädter A Lithium-triggered chronic cluster headache *Headache* 1985;25:394-395
  110. -Bratzu J, Bharatiya R, Manca E, Cocco C, Argiolas A, Melis MR, Sanna F. Oxytocin induces penile erection and yawning when injected into the bed nucleus of the stria terminalis: A microdialysis and immunohistochemical study. *Behav Brain Res.* 2019
  111. -Bromage PR Yawning *BMJ* 31/01/1959 p304
  112. -Brown RW, Perna MK, Schaefer TL, Williams MT. The effects of adulthood nicotine treatment on D2-mediated behavior and neurotrophins of rats neonatally treated with quinpirole. *Synapse* 2006;59(5):253-259
  113. -Brown BJ, Kim S, Saunders H, Bachmann C, Thompson J, Ropar D, Jackson SR, Jackson GM. A Neural Basis for Contagious Yawning. *Curr Biol.* 2017;27(17):2713-2717
  114. -Brumback RA Weinberg's syndrome: a disorder of attention and behavior problems needing further research. *Child Neurol* 2000;15(7):478-80
  115. -Buijs RM; Kalsbeek A Hypothalamic integration of central and peripheral clocks *Nature R Neuroscience* 2001;2:521- 525
  116. -Brus R, R Szkilnik, RM Kostrzewa Nitric oxide (NO) and central dopamine (DA) D3 receptor reactivity to quinpirole in rats *Act Neurobiol Exp* 1996;56:15-19
  117. -Burk W. Why do we yawn? *Health* 2013;5(10):1572-1579.
  118. -Buttner AP, Strasser R. Contagious yawning, social cognition, and arousal: an investigation of the processes underlying shelter dogs' responses to human yawns. *Anim Cogn.* 2014;17(1):95-104
  119. -Cahill CA Yawn maneuver to prevent atelectasis *AORN* 1978;27(5):1000-1004
  120. -Cameron JL et al Dopaminergic stimulation of oxytocin concentrations in the plasma of male and female monkeys by apomorphine and a D2 receptor agonist *Journal of Clinical Endocrinology and Metabolism* 1992;75(3):855-860
  121. -Campbell M et al. Computer animations stimulate contagious yawning in chimpanzees *Proceed Royal Soc Biol* 2009;276(1676):4255-4259
  122. -Campbell MW, de Waal FB. Ingroup-Outgroup Bias in Contagious Yawning by Chimpanzees Supports Link to Empathy. *Plos One.* 2011;6(4):1-4
  123. -Campbell M, de Waal F. Methodological Problems in the Study of Contagious Yawning; In Walusinski O (ed): *The Mystery of Yawning in Physiology and Disease.* Front Neurol Neurosci. Basel, Karger, 2010, vol 28, pp 120.
  124. -Campbell M, de Waal F. Chimpanzees empathize with group mates and humans, but not with baboons or unfamiliar chimpanzees. *Proc. R. Soc. B* 2014; 281: 20140013
  125. -Campbell MW, Cox CR. Observational data reveal evidence and parameters of contagious yawning in the behavioral repertoire of captive-reared chimpanzees (Pan troglodytes). [www.nature.com/scientificreports](http://www.nature.com/scientificreports) 2019;9:13271
  126. -Canales JJ, SD Iversen Psychomotor activating effects mediated by dopamine D2 and D3 receptors in the nucleus accumbens *Pharmacol Biochem Behav* 2000;67:161-168
  127. -Campbell A. Oxytocin and human social behavior. *Pers Soc Psychol Rev.* 2010;14(3):281-295.
  128. -Canales JJ, Iversen SD Dynamic dopamine receptor interactions in the core and shell of nucleus accumbens differentially coordinate the expression of unconditioned motor behaviors *Synapse* 2000;36:297-306
  129. -Carr L, Iacoboni M et al Neural mechanisms of empathy in humans: A relay from neural systems for imitation to limbic areas *PNAS*; 2003;100(9):5497-5502
  130. Carrillo M, Migliorati F, Bruls R, Han Y, Heinemans M, Pruis I, Gazzola V, Keysers C. Repeated Witnessing of Conspecifics in Pain: Effects on Emotional Contagion. *PLoS One.* 2015;10(9):e0136979.

131. -Carskadon MM Yawning elicited by reading: effects of sleepiness. *Sleep research* 1992;21:101
132. -Carskadon MM Yawning elicited by reading : is an open mouth sufficient stimulus ? *Sleep research* 1991;20:116
133. -Casas M , Guardia J, Prat G, Trujols J The apomorphine test in heroin addicts *Addiction*1995;90:831-835.
134. -Casciato S, Di Bonaventura C, et al. Recurrent partial seizures with ictal yawning as atypical presentation of Hashimoto's encephalopathy (steroid-responsive encephalopathy associated with autoimmune thyroiditis). *Epilepsy Behav.* 2011;22(4):799-803.
135. -Casetta G, Nolfo AP, Palagi E. Yawn contagion promotes motor synchrony in wild lions, *Panthera leo*. *Animal Behaviour* 2021;174:149-159
136. -Caswell TA. The effects of status on yawning behavior. Thesis. Arizona University. 1991
137. -Catli T, Acar M, Hanci D, Arikan OK, Cingi C. Importance of yawning in the evaluation of excessive daytime sleepiness: a prospective clinical study. *Eur Arch Otorhinolaryngol.* 2014
138. -Cattaneo L et al. Pathological yawning as a presenting symptom of brainstem ischemia in two patients *J Neurol Neurosurg Psychiat* 2006;77(1):98-100 et réponse O. Walusinski
139. -Cerbo R, Barbanti P, Buzzi MG, et al. Dopamine hypersensitivity in migraine: role of the apomorphine test. *Clin Neuropharmacol* 1997;20(1):36-41
140. -Chakradhara Rao US, Suresh Kumar S. Is high frequency yawning: A behavioural event of ethanol withdrawal. *Medical Hypotheses* 2011;77(5):935-936.
141. -Chaminade T, Meary D, Orliaguet JP, Decety J Is perceptual anticipation a motor simulation ? a PET study *Neuroreport* dec 2001;12(17):3669-3674
142. Chan MHM, Tseng CH. Yawning Detection Sensitivity and Yawning Contagion. *Iperception.* 2017;8(4):1-22.
143. -Chang CC et al. Amelioration of pathological yawning after tracheostomy in a patient with locked-in syndrome. *Europ J Neurol* 2008;15:e66-e67
144. -Chang CC et al Excessive yawning induced by stimulation of myofascial trigger point. *Europ J Neurol* 2009;16:e118-e119
145. -Charcot JM Leçon du mardi de la Salpêtrière Tome II; Lecrosnier et Babé ed Paris; p1-11; 1890
146. -Chase MH, McGinty DJ, Sterman MB Cyclic variation in the amplitude of a brainstem reflex during sleep and wakefulness *Experientia*1968; 24(1):47
147. -Chen CH, Lu ML Venlafaxine-induced excessive yawning. *Prog Neuropsychopharmacol Biol Psychiatry.* 2009;33(1):156-157
148. -Chen J, Collins GT et al Design, Synthesis, and Evaluation of Potent and Selective Ligands for the Dopamine 3 (D3) Receptor with a Novel in Vivo Behavioral Profile *J Med Chem* 2008;51:5905-5908
149. -Chouard CH, Bigot-Massoni D Mechanisms and physiologic role of yawning. [en français] *Ann Otolaryngol Chir Cervicofaciale* 1990;107(3):145-153
150. -Chouinard S, Ford B Adult onset tic disorders *J Neurol Neurosurg Psychiatry* 2000;68:738-743
151. -Chowdhury A, Datta AK, Biswas S, Biswas A. Parakinesia Brachialis Oscitans – a Rare Post-Stroke Phenomenon. *Tremor and Other Hyperkinetic Movements.* 2022; 12(1): 6.
152. -Choy CK; Cho P; Chung WY; Benzie IF Water-soluble antioxidants in human tears: effect of the collection method. *Invest Ophthalmol Vis Sci* 2001;42(13):3130-3134
153. -Chudler EH, Byers MR Behavioural responses following tooth injury in rats *Arch Oral Biol* 2005;50(3):333-340
154. -Cialdini RB, McPeck RW. Yawning, Yielding, and Yearning to Yawn. Paper presented at the meeting of the Midwest Psychological Association. Chicago, May 1974
155. -Clark DR. Stretching and yawning with Yeats and Pound. *The Malahat Review.* 1974;29:104-107
156. -Cochran CA, Perachio AA. Dihydrotestosterone Propionate Effects on Dominance and Sexual Behaviors in Gonadectomized Male and Female Rhesus Monkeys. *Hormones Behavior* 1977;8:175-187
157. -Code RA , Tang AH Yawning produced by dopamine agonists in rhesus monkeys *E J Pharmacology* 1991;201:235-238
158. -Cohen AJ Fluoxetine-induced yawning and anorgasmia reversed by cyproheptadine treatment. *Clin Psychiatry* 1992;53(5):174
159. -Colbern D et al. Limbic-midbrain lesions and acth-induced excessive grooming *Life Sci* 1977;21:393-402
160. -Collins GT, JM Witkin et al Dopamine agonist-induced yawning in rats: a dopamine d3 receptor mediated behavior. *J Pharmacol Exp Ther* 2005;314(1):310-9.
161. -Collins GT, Newman AH, Woods JH et al. Yawning and hypothermia in rats: effects of dopamine D3 and D2 agonists and antagonists. *Psychopharmacology (Berl).* 2007;193(2):159-170
162. -Collins GT. et al. Food restriction alters pramipexole-induced yawning, hypothermia, and locomotor activity in rats: Evidence for sensitization of dopamine D2 receptor-mediated effects. *JEPT* 2008;325:691-697
163. -Collins GT et al. Narrowing in on compulsions: dopamine receptor functions *Exp Clin*

- Psychopharmacol 2008,16(4):498-502
164. -Collins GT et al. Pro-erectile Effects of Dopamine D2-like Agonists are Mediated by the D3 Receptor in Rats and Mice *JPEP* 2009;329(1):210-217
  165. -Collins GT, Truong YN, et al. Behavioral sensitization to cocaine in rats: evidence for temporal differences in dopamine D(3) and D (2) receptor sensitivity. *Psychopharmacology (Berl)*. 2011;215(4):609-20.
  166. -Colosimo C, Francesco E, Pontieri, Virgilio Gerald H. et al. Yawning in Parkinson's disease *Neurology* 1999;52(2):428
  167. -Conceicao IM, Frussa-Filho R Effects of a single administration of buspirone on catalepsy; yawning and stereotypy in rats *Braz J Med Biol Res* 1993;26(1):71-74
  168. -Cooper N, Puzzo I, Pawley A Contagious yawning: the mirror neuron system may be a candidate physiological mechanism *Medical Hypotheses* 2008;71(6):975-976
  169. -Cooper NR, Puzzo I, et al. Bridging a yawning chasm: EEG investigations into the debate concerning the role of the human mirror neuron system in contagious yawning. *Cogn Affect Behav Neurosci*. 2012;12(2):393-405
  170. -Cooper SJ, Dourish CT Neural basis of drug induced yawning in neurobiology of stereotyped behaviour Oxford ed 1990
  171. -Cooper SJ, Rusk IN, Barber DJ. Yawning Induced by the Selective Dopamine D2 Agonist N-0437 is Blocked by the Selective Dopamine Autoreceptor Antagonist (+)-UH 232. *Physiol Behav*. 1989;45:1263-1266
  172. -Cope ZA, Huggins KN, et al. Neonatal quinpirole treatment enhances locomotor activation and dopamine release in the nucleus accumbens core in response to amphetamine treatment in adulthood. *Synapse*. 2009;64(4):289-300.
  173. -Cordoni G, Favilli E, Palagi E. Earlier than previously thought: Yawn contagion in preschool children. *Dev Psychobiol*. 2021 Jan 27. doi: 10.1002/dev.22094.
  174. -Corey TP, Shoup-Knox ML, Gordis EB, Gallup GG Jr. Changes in Physiology before, during, and after Yawning. *Front Evol Neurosci*. 2011;3(7):1-11
  175. -Coully G Development of the face in the embryo *Revue du praticien* 1991;41:1 7-15
  176. -Courserant Bâillements continuels; une observation. *Gazette des hôpitaux civils et militaires* 10/1846;f 119:475
  177. -Couture A Des Dieux qui bâillent et qui font bâiller dans la mythologie de l'Inde *Sciences Religieuses* 2009;38(3-4):411-425
  178. -Cronin TG Yawning : an early manifestation of vasovagal reflex *AJR*; 1988;150:209
  179. -Crosby L, Parsons LC Clinical neurologic assessment tool: development and testing of an instrument to index neurologic status. *Heart Lung* 1988;18(2):121-129
  180. -Crouzon et Ducas Mouvements involontaires de la face et de la tête; à allure de spasmes rythmiques; survenant chez un malade atteint d'encéphalite léthargique *Revue de Neurologie Paris n°5*; mai 1928
  181. -Cummings P et all Drowsiness; counter-measures to drowsiness; and the risk of a motor vehicle crash *Injury Prevention* 2001;7:194-199
  182. -Czyrak A et al. Some central pharmacological effects of the calcium channel antagonist flunarizine *J Neural Transm* 1991;83:179-188
  183. -Dale RC et al. Encephalitis lethargica syndrome: 20 new cases and evidence of basal ganglia autoimmunity *Brain* 2004;127(1):21-33
  184. -d'Andréa C, Méliet JL, Staikowski F Paralyties faciales périphériques d'origine dysbarique. *Presse Med*. 2008;37(4 Pt 2):643-647
  185. -Daquin G, Micallef J, Blin O Yawning *Sleep Medicine Reviews* 2001 5(4):299-312
  186. -da Silva GE Potentiation of penile erection and yawning responses to apomorphine by cannabinoid receptor antagonist in rats *Neurosci Letter* 2003;349(1):49-52
  187. -de Castro Siqueira L. Yawning and thermoregulation in budgerigars: lack of support from results. *Animal Behaviour* 2009;78(6):e1-e2
  188. -Decety J, Chaminade T, Grèzes J, Meltzoff A PET exploration of neural mechanisms involved in reciprocal imitation *NeuroImage* 2002;15:265-272
  189. -Decety J, Nadel J *Imiter pour découvrir l'humain* PUF ed (Paris) 2002 & autres articles de J Decety
  190. -Dejerine J *Sémiologie des affections du système nerveux* Masson Paris 1914
  191. -De Las Cuevas C, Sanz EJ Duloxetine-induced excessive disturbing and disabling yawning. *J Clin Psychopharmacol*. 2007;27(1):106-107.
  192. -Delbende C, Jegou S et al Role of alpha-MSH and related peptides in the central nervous system *Rev Neurol (Paris)* 1985;141(6-7):429-439
  193. -Del Bene E, Poggioni M Video assessment of yawning induced by sublingual apomorphine in migraine *Headache* 1994;34(9):536-8
  194. -Dellini-Stula A, Hunn V Effects of single and repeated treatment with antidepressants on apomorphine-induced yawning in the rat: the implication of alpha-1 adrenergic mechanisms in the D-2 receptor function *Psychopharmacology* 1990;101:62-66

195. -Delius JD. Irrelevant behaviour, information processing and arousal homeostasis. *Psychol Forsch.* 1970;33(2):165-88.
196. -Delmas Marsallet P Le signe du bâillement dans les lésions du cerveau frontal. *Oto-neuro-ophthalmologie* 1937;15:183
197. -De Marco A, Cozzolino R et al. Interactions Between Third Parties and Consortship Partners in Tonkean Macaques (*Macaca tonkeana*). *Int J Primatol* 2011;32:708–720
198. -de Mateos-Verchere JG The octadecaneuropeptide ODN inhibits apomorphine-induced yawning in rats *European J of Pharmacology* 1998;357:121-122
199. -Demuru E, Palagi E. In Bonobos Yawn Contagion Is Higher among Kin and Friends. *PLoS One.* 2012; 7(11): e49613
200. -Depoortere R et al. Penile erection and yawning induced by dopamine D2-like receptor agonists in rats *Behavioural Pharmacol* 2009;20(4):303-31
201. -Deputte BL Study of yawning in two species of Cercopithecidae; *Cercocebus albigena albigena gray* and *Macaca fascicularis raffles*: Research on causal and functional factors; A consideration of socio-bioenergetic factors. Thèse présentée devant l'Université de Rennes; pour obtenir le titre de Docteur en Troisième Cycle; February 1978.
202. -Deputte BL Revue sur le comportement de bâillement chez les vertébrés *Bull interne société française pour l'étude du comportement animal.*1974;1:26-35.
203. -DeputteBL, Johnson J, Hempel M, Scheffler G Behavioral effects of an antiandrogen in adult male rhesus Macaques. *Hormones and behavior* 1994;28:155-164
204. -Deputte BL, Fontenelle A Menace et bâillement chez *Macaca Fascicularis*: intérêt de l'étude électromyographique comparée. *Biology of behaviour* 1980 5:47-54
205. -Deputte BL Ethological study of yawning in primates *Ethology* 1994; 98;221-245
206. -de Vries, Visser, Prechtl The emergence of fetal behaviour *Early Human Development* 1982;7:301-322
207. -de Wied D Behavioral pharmacology of neuropeptides related to melanocortins and the neurohypophyseal hormones. *Eur J Pharmacol* 1999;375(1-3):1-11
208. -Dewey RB Jr, Hutton JT, LeWitt PA, Factor SA A randomized, double-blind, placebo-controlled trial of subcutaneously injected apomorphine for parkinsonian off-state events. *Arch Neurol* 2001;58(9)1385-1392
209. -Diaz-Romero M, Eguibar JR, Moyaho A Bombesin decreases yawning in a high-yawning subline of Sprague-Dawley rats *Pharmacol Bioch Behav* 2002;71:103-109
210. -Diaz-Romero M, JA Arias-Montano et al. Enhanced binding of dopamine D(1) receptors in caudate-putamen subregions in High-Yawning Sprague-Dawley rats *Synapse* 2005;56(2):69-73
211. -Dibaj P, Brockmann K, Gartner J. Dopamine-Mediated Yawning-Fatigue Syndrome With Specific Recurrent Initiation and Responsiveness to Opioids *JAMA Neurol* 2019.3937.
212. -Dijksterhuis Ap et al The perception-behavior expressway automatic effects of social perception on social behavior *BBS* 2003
213. -Di Martino EF, Thaden R, Antweiler C, et al. Evaluation of Eustachian tube function by sonotubometry: results and reliability of 8 kHz signals in normal subjects *Eur Arch Otorhinolaryngol.* 2007;264(3):231-236
214. -D'Mello, Vincent, Lerner Yawning as complication of electroconvulsive therapy and concurrent neuroleptic withdrawal. *The Journal of Nervous and Mental Disease;* 1988;176(3):188-189
215. -Doelman CJ, Rijken JA. Yawning and airway physiology: a scoping review and novel hypothesis. *Sleep and Breathing* 2022
216. -Doger E, Urba-Holmgren R, Eguibar JR, Holmgren B GABAergic modulation of yawning behavior. *Pharmacol Biochem Behav* 1989;34(2):237-240
217. -Doherty PC, Wisler PA Stimulatory effects of quinelorane on yawning and penile erection in the rat *Life Science* 1994;54(7):507-51
218. -Dolkart KM. A conjecture as to the physiological origins of yawning. *Int J App Basic Med Res* 2017;7(2):148.
219. -Donat JF, Wright FS Unusual variants of infantile spasms *J Child Neurol* 1991;6(4):313-8
220. -Dorr RT, Lines R, Levine N, Brooks C, et al. Evaluation of melanotan-II, a superpotent cyclic melanotropic peptide in a pilot phase-1 clinical study *Life Sciences* 1996;58(20):1777-1784
221. -Dourish CT, SJ Cooper Yawning elicited by systemic and intrastriatal injection of piribedil and apomorphine in the rat *Psychopharmacology* 1985;86:175-181
222. -Dourish CT, PH Hutson Bilateral lesions of the striatum induced with 6-hydroxydopamine abolish apomorphine-induced yawning in rats *Neuropharmacology* 1985;24(11):1051-1055
223. -Dubuc I, Protais P et al Antagonism of the apomorphine-induced yawning by atypical neuroleptics *Neuropharmacology* 1982;21:1203-1206
224. -Eldakar OT, Dauzonne M, Prilutzkaya Y, Garcia D, Thadal C, Gallup AC. Temperature-Dependent in Self-Reported Contagious Yawning. *Adaptive Human Behavior and Physiology.* 2015;1(2).
225. -Eldakar OT, Tartar JL, Garcia D, Ramirez V, Dauzonnell M, Armani Y, Gallup AC. Acute Physical

- Stress Modulates the Temporal Expression of Self-Reported Contagious Yawning in Humans. *Adaptative Human Behavior and Physiology* 201
226. -Elo H Yawning and thermoregulation *Sleep Breath*. 2010;14(4):391-2.
  227. -Edsman CM Gähnen in *Die Religion in Geschichte und Gegenwart*. Galling K and Werbeck W, ed. Tübingen. Mohr. 1958. 7 vols (vol 2), 1186.
  228. -Egerman RS, Emerson DS A fetal yawn *N Eng J Med* 1996;335:1497
  229. -Eguibar JR et al Behavioral differences between selectively bred rats: D1 versus D2 receptors in yawning and grooming *Pharmacology; Biochemistry and Behavior* 2003;74:827-832
  230. -Eguibar JR et al Genotype-dependent effect of ACTH 1-24 on grooming and yawning in two inbred strains of rats *Neuropeptides* 2004;38:283-288
  231. Eguibar JR, Cortes MD, Lara-Lozano M, Mendiola DM. Dopaminergic D2-like agonists produce yawning in the myelin mutant taiep and Sprague-Dawley rats. *Pharmacol Biochem Behav*. 2012;102(1):118-123.
  232. -Eguibar JR, Cortes C, Isidro O, Ugarte A. Central administration of oxytocin differentially increases yawning, penile erections and scratching in high- (HY) and low-yawning (LY) sublines of Sprague-Dawley rats. *Pharmacol Biochem Behav*. 2015;134:6-11.
  233. -Eguibar JR, Cortes C, Toriz CG, Romero-Carbente JC, González-Flores O, Fernández-Guasti A. Differential organization of male copulatory patterns in high- and low-yawning-frequency sublines versus outbred Sprague-Dawley rats. *Physiol Behav*. 2015;153:84-90.
  234. -Eguibar JR, Uribe CA, Cortes C, Bautista A, Gallup AC. Yawning reduces facial temperature in the high-yawning subline of Sprague-Dawley rats. *BMC Neurosci*. 2017;18(1):3.
  235. -Elliott L, Coleman et al. Effect of posture on levels of arousal and awareness in vegetative and minimally conscious state patients: a preliminary investigation *JNNP* 2005;76:298-299
  236. -Elo H Yawning and thermoregulation *Sleep Breath*. 2010;14(4):391-2.
  237. -Elo H. Yawning cannot cause significant temperature decreases in humans. *Sleep Med* 2011;12(1):102
  238. -Enokizu A, Morisaka T, Murakami K, Sakurai N, Ueda N, Yoshioka M. Yawn-like behavior in captive common bottlenose dolphins (*Tursiops truncatus*). *Behav Processes*. 2021 Aug; 189:104444. doi: 10.1016/j.beproc.2021.104444.
  239. -Erkoyun HU, Beckmann Y, Bülbül NG, Incesu TK, Kanat NG, Ertekin C. Spontaneous yawning in patients with multiple sclerosis: A polygraphic study. *Mult Scler Relat Disord*. 2017;17:179-183.
  240. -Ertekin C, Bulbul NG, Uludag IF, Tiftikcioglu BI, Arici S, Gurgor N. Electrophysiological association of spontaneous yawning and swallowing. *Exp Brain Res*. 2015;233(7):2073-80
  241. -Estow S, Jamieson JP, Yates JR. Self-monitoring and mimicry of positive and negative social behaviors *J Res Personality*.. 2007;41(2):425-433
  242. -Evans SM, Griffiths RR Caffeine withdrawal: a parametric analysis of caffeine dosing conditions. *J Pharmacol Exp Ther*. 1999;289(1):285-294.
  243. -Evans EB Yawning in pharyngeal obstruction *British medical J* 1978;1(6110):443-444
  244. -Eventide C, Ajoy N, Tai YF, Lichtblau N. An unusual case of bilateral anterior opercular syndrome from a neuro-rehabilitation perspective. *JAAPA* 2019;32(6):26-28.
  245. -Evidente VG, Hardy KG Yawning in Parkinson's disease. *Neurology* 1999;52(2):428
  246. -Evidente VG Is it a tic or tourette's? Clues for differentiating simple from more complex tic disorders *Postgrad Med* 2000; 108(5):175-176 et 179-182
  247. -Fanciullacci M, Alessandri M, Del Rosso A Dopamine involvement in the migraine attack. *Funct Neurol* 2000;15 Suppl 3:171-81
  248. -Fearon C, Lees AJ, McKinley JJ, McCarthy A, Smyth S, Farrell M, Lynch T. On the Emergence of Tremor in Prodromal Parkinson's Disease. *J Parkinsons Dis*. 2021
  249. -Feranchak AP, Orenstein SR, Cohn JF. Behaviors associated with onset of gastroesophageal reflux episodes in infants. Prospective study using split-screen video and pH probe. *Clin Pediatr (Phila)*. 1994;33(11):654-662
  250. -Ferrari W Behavioural changes in animals after intracisternal injection with adrenocorticotrophic hormone and melanocytostimulating hormone *Nature* 1958;181(4613):925-926
  251. -Ferrari W, Gessa, GL, Vargiu L Behavioral effects induced by intracisternally injected ACTH and MSH *Ann NY Acad Sci* 1963;104:330
  252. -Ferrari F et al Influence of sildenafil on central dopamine-mediated behaviour in male rat *Life Science* 2002;70:1501-1508
  253. -Ferrari F, Mangiafico V Effect of isolation on dopaminergic agonist-induced penile erections and stretching and yawning in male rats *Behavioural Brain Res* 1988;28:309-313
  254. -Ferrari F, Giuliani D Involvement of dopamine D2 receptors in the effect of cocaine on sexual behaviour and stretching-yawning of male rats *Neuropharmacology* 1997;36(6):769-777
  255. -Ferrari F Sexual excitement and stretching and yawning induced by b-ht 920 *Pharmacological Research Communications* 1985;17(6):557-563
  256. Ferrari F, Pelloni F, Giuliani D. Behavioural evidence that different neurochemical mechanisms underly stretching-yawning and penile erection induced in male rats by SND 919, a new selective D2 dopamine



- receptor agonist. *Psychopharmacology* (1993) 113 : 172-176
257. -Fink JN Localization of the "sneeze center" *Neurology* 2001;56(1)13
  258. -Flaskerud JH. Yawning, Why and When ? *Mental Health* 2016;37(7):526-529
  259. -Flechter S, Cohen F, Borenstein F, Regev I, Vardi J, Yawning as a paroxysmal sign of diencephalic seizures. *Archivio di Psicologia Neurologia e Psichiatria* 1982;43:45-54
  260. -Fontenot MB, Padgett EE et al The effects of fluoxetine and buspirone on self-injurious and stereotypic behavior in adult male rhesus macaques. *Comp Med.* 2005;55(1):67-74.
  261. -Fontenot MB, WilkesMN, Lynch CS Effects of Outdoor Housing on Self-Injurious and Stereotypic Behavior in Adult Male Rhesus Macaques (*Macaca mulatta*). *J Am Ass Laboratory Animal Science* 2006; 45(5):35-43
  262. -Forté MC thèse le bâillement 1982
  263. -Frank D et al. Puppy behaviours when left home alone: a pilot study *Applied Anim Behav Sci.* 2007
  264. -Fraser AF Pandiculation: the comparative phenomenon of systematic stretching *Appl Anim Behav Sci*1989;23:263-268
  265. -Fraser AF The phenomenon of pandiculation in the kinetic behaviour of the sheep fetus. *Appl Anim. Behav. Sci.*, 1989;24:169-182
  266. -Franzen A, Mader S, Winter F. Contagious Yawning, Empathy, and Their Relation to Prosocial Behavior *Journal of Experimental Psychology.* 2018;147(12):1950-1958.
  268. -Freye E Acute abstinence syndrome following abrupt cessation of long-term use of tramadol : a case study *Europ J Pain* 2000;4:307-311
  269. -Friedman JH. Yawning, or Not Having Enough To Do. *Medicine & Helath Rhode Island.* 2012;95(8):234
  270. -Fundaro A Chronic nimodipine and yawning behavior in grouped or individually housed rats *Prog europsihopharmacol Biol Psychiatry* 1996;20(1):121-127
  271. -Furtado D Provocation spinale d'un réflexe de bâillement *Rev Oto Neuro Ophtalmolo* 1951;23(1)
  272. -Fujikawa M, K Yamada Involvement of beta-adrenoceptors in regulation of the yawning induced by neuropeptides, oxytocin and a-Melanocyte-Stimulating Hormone *Pharmacol Biochem Behav* 1995;50;(3):339-343
  273. -Fujikawa M, Yamada K, Nagashima M, Furukawa T Involvement of beta-adrenoreceptors in regulation of the yawning induced by neuropeptides; oxytocin and alpha-melanocytes stimulating hormone in rats. *Pharmacol Biochem Behav* 1995;50:339-343
  274. -Fujikawa M et al The new muscarinic M1-receptor agonist YM796 evokes yawningand increases oxytocin secretion from the posterior pituitary gland in rats *Pharmacol Biochem Behav* 1996;55(1):55-60
  275. -Fureix C et al. Co-occurrence of yawning and stereotypic behaviour in horses. *ISRN Zoology.* 2011
  276. -Furukawa T Yawning behavior for preclinical drug evaluation *Meth Find Exp Clin Phamacol* 1996;18(2):141-155
  277. -Gähwiler S, Bremhorst A, Tóth K, Riemer S Fear expressions of dogs during New Year fireworks: a video analysis. *Scientific Reports* 2020;10:16035.
  278. -Gallo A, Zanolli A, Caselli M, Palagi E, Norscia I. First evidence of yawn contagion in a wild monkey species. *Sci Rep.* 2021;11(1):17957.
  279. -Gallup A, Gallup G. Yawning as a brain cooling mechanism: nasal breathing and forehead cooling diminish the incidence of contagious yawning. *Evolutionary Psychology* [www.epjournal.net](http://www.epjournal.net); 2007;5(1): 92-101
  280. -Gallup AC, Gallup GG Jr. Yawning and thermoregulation. *Physiol Behav.* 2008;95(1-2):10-16
  281. -Gallup AC, Miller ML, Clark AB Yawning and thermoregulation in budgerigars *Melopsittacus undulatus* *Animal Behav* 2009;77(1):109-113
  282. -Gallup AC, Gallup Jr GG Venlafaxine-induced excessive yawning: a thermoregulatory connection *Prog Neuro Psychopharmacol Biol Pyschiatry* 2009;33(4):747
  283. -Gallup AC, Gallup GG Jr, Feo C. Yawning, sleep, and symptom relief in patients with multiple sclerosis. *Sleep Med.* 2010;11(3):329-331
  284. -Gallup GG, Gallup AC Excessive yawning and thermoregulation: two case histories of chronic, debilitating bouts of yawning. *Sleep Breath.* 2010;14(2):157-159
  285. -Gallup AC. Yawning as a behavioral adaptation to heat stress and water scarcity in white-faced capuchins (*Cebus capucinus*). *Am J Phys Anthropol.* 2010;142(4):670-61.
  286. -Gallup AC, Gallup GG Jr. Medical implications of excessive yawning in relation to thermoregulatory dysfunction. *Eur J Neurol.* 2009;16(6):e120.
  287. -Gallup AC. The thermoregulatory hypothesis of yawning: Time to reconsider terms such as "impossible" and "cannot" and evaluate theories based on evidence. *Sleep Med* 2011;12(1):102-10
  288. -Gallup AC. Why do we yawn? Primitive versus derived features. *Neurosci Biobehav Rev.* 2011;35(3):765-9
  289. -Gallup AC, Eldakar OT. Contagious yawning and seasonal climate variation. *Frontiers in*

- Evolutionary Neuroscience. 2011; 3:3
290. -Gallup AC. Excessive yawning and thermoregulatory dysfunction. *Sleep Breath* 2011;15:271-273
  291. -Gallup AC, Miller RR, Clark AB. Changes in Ambient Temperature Trigger Yawning But Not Stretching in Rats. *Ethology*. 2011;117:145–153
  292. -Gallup AC, Hack GD. Human paranasal sinuses and selective brain cooling: A ventilation system activated by yawning? *Med Hypotheses*. 2011;77(6):970-973.
  293. Gallup A, Eldakar OT. The thermoregulatory theory of yawning: what we know from over 5 years of research. *Front Neurosci*.2012;6:188
  294. Gallup AC, Gallup JA. Frequent yawning as an initial signal of fever relief. *Med Hypotheses*. 2013; 81(6): 1034-5
  295. -Gallup AC. Abnormal yawning in stroke patients: the role of brain thermoregulation. *Front Neurosci*. 2014
  296. -Gallup AC, Swartwood L, Militello J, Sackett S. Experimental evidence of contagious yawning in budgerigars (*Melopsittacus undulatus*). *Anim Cogn*. 2015;18(5):1051-158
  297. -Gallup AC, Church AM. The effects of intranasal oxytocin on contagious yawning. *Neuroscience Letters* 2015;607:13-16
  298. -Gallup A, Church AM, Miller H, Risko EF, Kingstone A. Social Presence Diminishes Contagious Yawning in the Laboratory. *Sci Rep* 2016;6:25045. doi: 10.1038/srep25045.
  299. -Gallup A. Ambient temperature modulates yawning. *Temperature*. 2016;3(1):23–24.
  300. -Gallup AC, Massen JJ. There is no difference in contagious yawning between men and women. *R Soc Open Sci*. 2016;3(9):160174.
  301. -Gallup AC, Church AM, Pelegrino AJ. Yawn duration predicts brain weight and cortical neuron number in mammals. *Biol Lett*. 2016;12(10)
  302. -Gallup A, Herron E, Militello J, Swartwood L, Cortes C, Eguibar J. Thermal imaging reveals sizable shifts in facial temperature surrounding yawning in budgerigars (*Melopsittacus undulatus*). *Temperature* 2017;4(4):
  303. -Gallup AC, Vasilyev D, Anderson N, Kingstone A. Contagious yawning in virtual reality is affected by actual, but not simulated, social presence. *Sci Rep*. 2019;9(1):294-304.
  304. -Gallup AC, Moscatello L, Massen JJM. Brain weight predicts yawn duration across domesticated dog breeds. *Curr Zool*. 2020;66(4):401-405.
  305. -Gallup A, Meyers K. Seeing others yawn selectively enhances vigilance: an eye-tracking study of snake detection. *Animal Cognition* 2021
  306. -Gallup AC, Kret ME, Eldakar OT, Folz J, Massen JJM. People that score high on psychopathic traits are less likely to yawn contagiously. *Sci Rep*. 2021;11(1):23779.
  307. -Gallup A. The causes and consequences of yawning in animal groups. *Animal Behavior* 187 (2022) 209e219
  308. -Gallup AC, Schild AB, Ühlein MA, Bugnyar T, Massen JJM. No Evidence for Contagious Yawning in Juvenile Ravens (*Corvus corax*): An Observational Study. *Animals (Basel)*. 2022;12(11):1357.
  309. -Gallup A, Wozny S. Interspecific Contagious Yawning in Humans. *Animals (Basel)* 2022;12(15):1908
  310. -Gallup AC, Wozny SM. The Role of Empathic Concern and Gender on Interspecific Contagious Yawning in Humans. *Animals (Basel)* 2023;13(10):1700.
  311. -Gamberini MT, Bolognesi ML, Nasello AG. The modulatory role of M2 muscarinic receptor on apomorphine-induced yawning and genital grooming. *Neuroscience Letters* 2012; 531:91-99
  312. -Gamberini MT, Gamberini MC, Nasello AG. Involvement of dopaminergic and cholinergic pathways in the induction of yawning and genital grooming by the aqueous extract of *Saccharum officinarum* L. (sugarcane) in rats. *Neuroscience Letters* 2015;584:270-275
  313. -García-García F, Acosta-Peña E, Venebra-Muñoz A, Murillo-Rodríguez E. Sleep-inducing factors. *CNS Neurol Disord Drug Targets*. 2009;8(4):235-244.
  314. -Gessa GL Stretchings and yawnings induced by adrenocorticotrophic hormone *Nature* 1966;5047:426-427
  315. -Gessa GL Stretching and yawning movements after intracerebral injection of ACTH *Revue Canadienne Biologie* 1967;26(3):229-236
  316. -Ghanizadeh A. Propranolol in yawning prophylaxis: a case report. *Gen Hosp Psychiatry*. 2011 Nov
  317. -Ghika J et al Dissociated preservation of automatic-voluntary jaw movements in a patient with biopercular and unilateral pontine infarcts *Eur Neurol* 2003;50-185-188
  318. -Giganti F, Hayes MJ, Akilesh MR, Salzarulo P. Yawning and behavioral states in premature infants. *Dev Psychobiol*. 2002;41(3):289-96.
  319. -Giganti F, Hayes MJ Cioni G, Salzarulo P Yawning frequency and distribution in preterm and near term infants assessed throughout 24-h recordings *Infant Behav & Development* 2007;30(4):641-647
  320. -Giganti F, Ziello ME Contagious and spontaneous yawning in autistic and typically developing children *CPL* 2009
  321. -Giganti F, Zilli I. The daily time course of contagious and spontaneous yawning among humans. *J*

- Ethol 2011;29(2):215-216
322. -Giganti F, Zilli I, Aboudan S, Salzarulo P. Sleep, sleepiness and yawning. *Front Neurol Neurosci.* 2010;28:42-6.
  323. -Giganti F, Salzarulo P. Yawning throughout life. *Front Neurol Neurosci.* 2010;28:26-31
  324. -Giganti F, Toselli M, Ramat S. Developmental trends in a social behaviour: contagious yawning in the elderly. *Giornale di Psicologia dello Sviluppo.* 2012;101:111-117
  325. -Giganti F, Guidi S, Ramat S, Zilli I, Raglione LM, Sorbi S, Salzarulo P. Yawning: A behavioural marker of sleepiness in de novo PD patients. *Parkinsonism Relat Disord* 2013
  326. -Gilbert D Is Yawning a brainstem phenomenon ? *The Lancet* 1988; 596
  327. -Gilles De La Tourette GE Etude sur une affection nerveuse caractérisée par l'incoordination motrice accompagnée d'écholalie et coprolalie. *Arch Neurol Paris;* 1885;9:19-42
  328. -Gimenez-Llort L, Canete T, Guitart-Masip M, Fernandez-Teruel A, Tobena A. Two distinctive apomorphine-induced phenotypes in the Roman high- and low-avoidance rats. *Physiol Behav.* 2005;86(4):458-466.
  329. -Givens S The nonverbal basis of attraction: flirtation, courtship and seduction. *Psychiatry* 1978;41:346-359
  330. -Goldie L Yawning and epilepsy *J of Psychosomatic Research* 1961;5:263-268
  331. -Goldberg RL Sustained yawning as a side effect of imipramine *Int J Psychiatry Med* 1983-84;13(4):277-80
  332. -Gómora-Arrati P, Cortes C, Trujillo A, Encarnación-Sánchez JL, Galicia-Aguas YL, González-Flores O, Eguibar JR. Mating-induced analgesia is dependent of copulatory male pattern in high- and low-yawning male rats. *Physiol Behav.* 2022;246:113694.
  333. -Gorchynski J, Karabidian E, Sanchez M. The "syringe" technique: a hands-free approach for the reduction of acute nontraumatic temporomandibular dislocations in the emergency department. *J Emerg Med.* 2014;47(6):676-81
  334. -Górecka-Bruzda A, Fureix C, Ouvrard A, Bourjade M, Hausberger M. Investigating determinants of yawning in the domestic (*Equus caballus*) and Przewalski (*Equus ferus przewalskii*) horses. *Naturwissenschaften.* 2016;103(9-10):72.
  335. -Goren; Friedmann Yawning : an aura for an L Dopa induced "off" in Parkinson disease *Neurologie* 1998;50(3):823
  336. -Gower AJ Effects of acetylcholine agonists and antagonists on yawning and analgesia in the rat *Europ J Pharmacology* 1987;139:79-89
  337. -Gower AJ, Berendsen HH, Broekkamp CL Antagonism of drug-induced yawning and penile erections in rats *Eur J Pharmacol* 1986;122(2):239-244
  338. -Gower J, Berendsen H et al. Yawning-penile erection syndrome as a model for putative dopamine autoreceptor activity *Eur J Pharmacol* 1984;103:81-89
  339. -Gower AJ Cholinergic mediated yawning and analgesia in rats: differential effects of muscarinic agonists and antagonists. 1987
  340. -Graves FC, Wallen K Androgen-induced yawning in rhesus monkey females is reversed with a nonsteroidal anti-androgen *Hormones and Behavior* 2006;49(2):233-236
  341. -Gray LP. The relationship between the 'superior constrictor swallow', clicking of the ears and ear disease. *J Laryngol Otol.* 1983;97(12):1121-1128
  342. -Greco M, Baenninger R Effects of yawning and related activities on skin conductance and heart rate; *Physiology and behavior* 1991;50(5):1067-1069
  343. -Greco M, Baenninger R, Govern J. On the context of yawning: when, where, and why ? *Psych. Rec.* 1993;43:175-183
  344. -Greco M; Baenninger R Selfreport as a valid measure of yawning in the laboratory *Bull Psychonomic Soc* 1989;27:75-76
  345. -Grunauer PP, Walguarnery JW. Relative response to digital tablet devices and painting as sensory enrichment in captive chimpanzees. *Zoo Biol.* 2018
  346. -Gschwend J Yawning in a case with transecting glioma of the pons *Fortschr Neurol Psychiatr Grenzgeb* 1977;45(12):652-655
  347. -Guardia J, Casas M, et al The apomorphine test: a biological marker for heroin dependence disorder? *Addict Biol* 2002;7(4):421-426
  348. -Guardini G, Bowen J, Mariti Ch, Fatjó J, Sighieri C, Gazzano A. Influence of Maternal Care on Behavioural Development of Domestic Dogs (*Canis Familiaris*) Living in a Home Environment. *Animals (Basel).* 2017;7(12):93.
  349. -Guggisberg AG, Mathis J, Herrmann US, Hess CW. The functional relationship between yawning and vigilance. *Behav Brain Res* 2007;179(1):159-166
  350. -Guggisberg AG, Mathis J et al. Why do we yawn ? *Neurosci Biobehav Rev* 2010;34:1267-1276
  351. -Guggisberg AG, Mathis J et al. Why do we yawn? The importance of evidence for specific yawn-induced effects. *Neurosci Biobehav Rev.* 2011;35(5):1302-4.
  352. -Guggisberg A, Hess Ch. Clinical significance of yawning in disorders of consciousness and vigilance.

- Epileptologie. 2014;31:82-86.
353. -Guilleminault Ch Sommeil et respiration Influence des états de vigilance sur la respiration Rev Mal Resp 1986;3:123-127
  354. -Gupta S, Mittal S. Yawning and its physiological significance. Int J Appl Basic Med Res. 2013;3(1):11–15
  355. -Gutierrez-Alvarez AM Do your patients suffer from excessive yawning? Acta Psychiatrica Scandinavica 2007;115(1):80-81
  356. -Güven B, Güven H, Selçuk Comoglu S. Migraine and Yawning. Headache 2017
  357. -Halder U, R Schenkel Das Riech-Gähnen bei Rindern (Bovinae) Z Säugertierkunde 1972;37:232-245
  358. -Hall KL Behaviour of monkeys towards mirror-images Nature 1962;196:1258-1261
  359. -Hadidian J Yawning in old world monkey; Macaca nigra; Behaviour 1980;75:133-147
  360. -Haker H, Rössler W Empathy in schizophrenia: impaired resonance Eur Arch Psychiatry Clin Neurosci 2009;259(6):352-361
  361. -Haker H, Kawohl W, Herwig U, Rössler W. Mirror neuron activity during contagious yawning-an fMRI study. Brain Imaging Behav. 2013;7(1):28-34
  362. -Hamilton LR et al. Characterization of the dopamine receptor system in adult rhesus monkeys exposed to cocaine throughout gestation Psychopharmacology (Berl).2010;210(4):481-488
  363. -Handa J, Nakasu Y, Kidooka M Transient cerebral ischemia evoked by yawning Sur Neurol 1983;19:46-50
  364. -Harada KI. Paroxetine-induced excessive yawning Psychiatry Clinical Neurosciences 2006;60:260
  365. -Harnier S et al. Retropharyngeal tendinitis: a rare differential diagnosis of severe headaches and neck pain. Headache. 2008;48(1):158-161
  366. -Harr AL, Gilbert VR Do dogs show contagious yawning ? Anim Cogn 2009;12(6):833-837
  367. -Harrison W, Stewart J, McGrath PJ; Quitkin F Unusual side effects of clomipramine associated with yawning. Can J Psychiatry 1984;29:546
  368. -Harrison CJ Yawning in the greenfisk AUK 1968;85:511
  369. -Hata TK, Kanenishi, et al. Real-time 3-D sonographic observation of fetal facial expression J Obstet Gynaecol Res 2005;31(4):337-340-Hayward MW, Hayward GJ. The impact of tourists on lion Panthera leo behaviour, stress and energetics. Acta Theriologica 2009;54:219-224.
  370. -Heaton JP, Varrin SJ Effects of streptozotocin-induced diabetes on dopaminergic functioning in the rat: analysis of yawning behavior. Pharmacol Biochem Behav. 1993;44(3):601-604
  371. -Heaton JPW, Varrin SV Metoclopramide decreases apomorphine-induced yawning and penile erection Pharmacol Biochem Behav 1991;38(4):917-920
  372. -Helt MS, Eigsti IM, Snyder PJ, Fein DA. Contagious yawning in autistic and typical development. Child Dev. 2010;81(5):1620-1631
  373. -Helt MS, Fein DA, Vargas JE. Emotional contagion in children with autism spectrum disorder varies with stimulus familiarity and task instructions. Dev Psychopathol. 2019:1-11.
  374. -Hensch T, Blume A, Böttger D, Sander C, Niedermeier N, Hegerl U. Yawning in Depression: Worth Looking Into. Pharmacopsychiatry. 2015;43(3):118-120
  375. Herrelko ES, Buchanan-Smith HM, Vick SJ .Perception of Available Space During Chimpanzee Introductions: Number of Accessible Areas Is More Important Than Enclosure Size. Zoo Biology 2015;34(5):397-405
  376. -Herrmann US, Hess CW, Guggisberg AG, et al. Sleepiness is not always perceived before falling asleep in healthy, sleep-deprived subjects. Sleep Med. 2010;11(8):747-751
  377. -Heuser H Zum geruchlichen Beutefinden und Gähnen der Kreuzkröte Zeitschr f TierPsychol 1958;15:94-98
  378. -Heusner AP Yawning and associated phenomena Physiological Review 1946;25:156-168
  379. -Heym N, Kantini E, Checkley HL, Cassaday HJ. Tourette-like behaviors in the normal population are associated with hyperactive/impulsive ADHD-like behaviors but do not relate to deficits in conditioned inhibition or response inhibition. Front Psychol. 2014;5:946.
  380. -Hilgers F, Jansen H et al. Long-term results of olfaction rehabilitation using the nasal airflow inducing maneuver after total laryngectomy - Polite Yawning Arch otolaryngol head neck 2002;128:648-654
  381. -Hiltunen AJ, Lafolie P. Subjective and objective symptoms in relation to plasma methadone concentration in methadone patients. Psychopharmacology (Berl). 1995;118(2):122-126
  382. -Hipolide DC, Lobo LL; De Medeiros R; Neumann B; Tufik S Treatment with dexamethasone alters yawning behavior induced by cholinergic but not dopaminergic agonist. Physiol Behav 1999;65(4-5):829-32
  383. -Hipolide DC, Tufik S Paradoxical sleep deprivation in female rats alters drug-induced behaviors Physiol Behav. 1995;57(6):1139-1143
  384. -Hoff AE. Mouths wide open: yawning as a communicative behavior in dogs Thesis Colorado State University 2001
  385. -Holditch-Davis D Development of behaviors in preterm infants: relation to sleeping and waking Nurs

Res 2003;52(5): 307317

386. Holle H, Warne K, Seth AK, Critchley HD, Ward J. Neural basis of contagious itch and why some people are more prone to it. *PNAS* 2012;109(48):19816-19821
387. -Holmgren B and Urba-Holmgren R Interaction of cholinergic and dopaminergic influences on yawning behavior *Acta Neurobiol Exp* 1980;40:633-642
388. -Holmgren R, Holmgren B, Rodriguez R, Gonzalez RM. Serotonergic modulation of yawning. *Pharmacol Biochem Behav* 1979;11(3):371-372
389. -Holmgren R, Holmgren B, Rodriguez R Sex hormone influences on yawning behavior *Acta Neurobiol Exp* 1980;40:515-519
390. -Holmgren B, Urba-Holmgren R, Trucios N, Zermeno M, Eguibar JR. Association of spontaneous and dopaminergic-induced yawning and penile erections in the rat. *Pharmacol Biochem Behav* 1985;22(1):31-5
391. -Holmgren B, Budelli R, Urba-Holmgren JR, Eguibar M, Holmgren G, Baz-Tellez, Anias J. Food Anticipatory Yawning Rhythm in the Rat. *Acta Neurobiologiae Experimentalis* 1991;51:97-105.
392. -Horner LH The neuropharmacology of upper airway motor control in the awake and asleep states: implications for obstructive sleep apnoea *Respiratory Research* 2001;2(5):286-294
393. -Houston J Yawning and penile erection induced in Rats by Cortical Spreading Depression *Nature* 1971; 232; 274-275
394. -Jacoboni M, Rizzolatti G Cortical mechanisms of human imitation *Science* 24/12/99; 286
395. -Ide M, Kataoka A, Koriyama T Osame M Igata A New accompanying signs and symptoms of adrenoleukodystrophy *Rinsho Shinkeigaku* 1982;22;(2):112-119
396. -Insel TR, Young LJ The neurobiology of attachment *Nature Reviews Neuroscience* 2001;2(2):129
397. -Insabato L Considerazioni neurologiche sullo sbadiglio e sugli stiramenti, con speciale riguardo alle loro relazioni con le variazioni del tono muscolare, unitamente ad osservazioni sulle ipertonie da lesioni extrapiramidali e da lesioni piramidali. *Archivio generale di neurologia, psichiatria e psiconalisi* 1928;9:125-153
398. -Isbir CA. Treatment of a Patient with Glossopharyngeal Neuralgia by the Anterior Tonsillar Pillar Method. *Case Rep Neurol.* 2011;3(1):27-31.
399. -Izquierdo Ivan Now you'll start yawning and you won't know why *Trends Pharmacol Sci* 1988;9(4):119
400. -Izumi K, Donaldson J, Barbeau A Yawning and stretching in rats induced by intraventricularly administered zinc *Life Science* 1973;11: 203-210
401. -Jackson SR, Parkinson A, Kim SY, Schüermann M, Eickhoff SB. On the functional anatomy of the urge-for-action. *Cogn Neurosci.* 2011;2(3-4):227-243.
402. -Jacobs H, Pakalnis A. Premonitory Symptoms in Episodic and Chronic Migraine From a Pediatric Headache Clinic. *Pediatric Neurology* 2019;97:26-29
403. -Jacome D Compulsive yawning as migraine premonitory symptom. *Cephalalgia* 2001;21(5):623-5
404. -Jacome D Primary yawning headache. *Cephalalgia* 2001;21(6):697-699
405. -Jacome D Extracerebral yawning pain *Cephalalgia* 2004;24;(5):411-413
406. -Jolicoeur F Atypical neuroleptic-like behavioral effects of neurotensin *Brain Res Bull.* 1993;32(5):487-491
407. -Joly-Mascheroni RM, Senju A, Sheperd AJ Dogs catch human yawns *Biology letters Animal Behaviour.* 2008;4(5):446-448
408. -Joshi S, Bayat A, Gagnon L, Shields DC, Koubeissi MZ. Yawning induced by focal electrical stimulation in the human brain. *Epilepsy Behav.* 2016;66:1-3
409. -Jung N, Ahn B et al. A case of parakinesia brachialis oscitans. *Clinical Neurology and Neurosurgery.* 2012;114(2):156-158
410. -Jurko MF, Andy OJ Post-lesion yawning and thalamotomy site *Appl Neurophysiol* 1975;38:73-79
411. -Kanenishi K, Hanaoka U, Noguchi J, Marumo G, Hata T. 4D ultrasound evaluation of fetal facial expressions during the latter stages of the second trimester. *Int J Gynaecol Obstet.* 2013;121(3):257-260
412. -Kubota N, Amemiya S, Tanagita S, Nishijima T, Kita I. Central nucleus of the amygdala is involved in induction of yawning response in rats. *Behavioural Brain Research* 2019;371:111974
413. -Kang P, Dhand A. Movement of a paralyzed arm with yawning. *Neurology.* 2015;84(16):e118.
414. -Kapitány R, Nielsen M. Are Yawns really Contagious? A Critique and Quantification of Yawn Contagion. *Adaptive Human Behavior and Physiology* 2017;3(2):134-155
415. -Kaplan KA, Itoi A, Dement WC. Awareness of sleepiness and ability to predict sleep onset: can drivers avoid falling asleep at the wheel? *Sleep Med.* 2007;9(1):71-79.
416. -Kasuya Y, Murakami T, et al. Does yawning represent a transient arousal-shift during intravenous induction of general anesthesia? *Anesth Analg* 2005;101(2):382-384
417. -Khan MH, Kunselman AR, Leuenberger UA, Davidson WR et al. Attenuated sympathetic nerve responses after 24 hours of bed rest. *Am J Physiol Heart Circ Physiol.* 2002; 282;6:H2210-2215
418. -Kim TH, Lee JJ, et al. Efficacy of assessment in fetal behaviour by four dimensional ultrasonography.

- J Obstetrics Gynaecology 2010;30(5):439-443
419. -Kimura H, Yamada K, Nagashima M, Matsumoto S Role of adrenergic neuronal activity in the yawning induced by tacrine and NIK-247 in rats. *Pharmacol Biochem Behav* 1992;43(4):985-91
  420. -Kimura H, Yamada K, Nagashima M, Furukawa T Involvement of catecholamine receptor activities in modulating the incidence of yawning in rats. *Pharmacol Biochem Behav* 1996;53(4):1017-21
  421. -Kis A, KatinkaTóth, Kanizsár O, Topál J. The effect of oxytocin on yawning by dogs (*Canis familiaris*) exposed to human yawns. *Applied Animal Behaviour Science* 2020;223 n° 104916
  422. -Kishida K Temporal change of subsidiary behavior in monotonous work. *J of Human Ergology* 1973;2:75-89
  423. -Kita I, Kubota N, Yanagita S, Motoki C Intracerebroventricular administration of corticotropin-releasing factor antagonist attenuates arousal response accompanied by yawning behavior in rats. *Neurosci. Letter* 2008;433(3):205-208
  424. -Kita I, Yoshida Y, Nishino S. An activation of parvocellular oxytocinergic neurons in the paraventricular nucleus in oxytocin-induced yawning and penile erection. *Neurosci Res.* 2006;54(4):269-275
  425. -Kita I, Seki Y, Nakatani Y, Fumoto M, Oguri M, Sato-Suzuki I, Arita H. Corticotropin-releasing factor neurons in the hypothalamic paraventricular nucleus are involved in arousal/yawning response of rats. *Behav Brain Res.* 2006;169(1)48-56.
  426. -Kita I, Sato-Suzuki et al. Yawning responses induced by local hypoxia in the paraventricular nucleus of the rat. *Behavioural Brain Research* 2000;117(1-2):119-126
  427. -Klêcha A, Hafian H, Devauchelle B, Lefèvre B. A report of post-traumatic Eagle's Syndrome. *Int J Oral Maxillofac Surg.* 2008;37(10):970-2
  428. -Klein DF Repeated observations of yawning; clitoral engorgement; and orgasm associated with fluoxetine administration. *J Clin Psychopharmacol* 1989;9(5):384
  429. -Klein DF False suffocation alarms, spontaneous panics, and related conditions. an integrative hypothesis. *Arch Gen Psychiatry.* 1993;50(4):306-317
  430. -Kilduff CL, Casswell EJ, Salam T, Hersh D, Ortiz-Perez S, Ezra D. Use of Alleviating Maneuvers for Periocular Facial Dystonias. *JAMA Ophthalmol.* 2016
  431. -Koch P Variation of behavioral and physiological variables in children attending kindergarten and primary school *Chronobiol Int* 1987;4(4):525-35
  432. -Kozintsev A, Butovskaya M. Disinhibition of anti-cultural behavior: A means of adaptation in early hominids? in Ullrich H. (ed.) *Hominid Evolution: Lifestyles and Survival Strategies.* Gelsenkirchen-Schwelm: Archaea, 1999, pp. 262-268.
  433. -Kostrzewa RM, Brus R Is dopamine-agonist induced yawning behavior a D3 mediated event? *Life Sci* 1991;48(26)129.
  434. -Kostrzewa RM, Brus R Ontogenic homologous supersensitization of quinpirole-induced yawning in rats. *Pharmacol Biochem Behav.* 1991;39(2):517-519.
  435. -Kostrzewa RM, Brus R, Rykaczewska M, Plech A. Low-dose quinpirole ontogenically sensitizes to quinpirole-induced yawning in rats. *Pharmacol Biochem Behav.* 1993;44(2):487-489.
  436. -Krasnianski M, et al Yawning despite trismus in a patient with locked-in syndrome caused by a thrombosed megadolichobasilar artery. *Clin Neurol Neurosurg.* 2003;106(1):44-46
  437. -Krantz M Repetitive yawning associated with cardiac tamponade *Am J Cardiol* 2004;94:701-702
  438. -Krestel H, Weisstanner C, Hess CW, Bassetti CL, Nirkko A, Wiest R. Insular and caudate lesions release abnormal yawning in stroke patients. *Brain Struct Funct.* 2015;220(2):803-812
  439. -Krestel H, Bassetti C, Walusinski O. Yawning - Its anatomy, chemistry, role, and pathological considerations. *Prog. Neurobiol* 2018;161:61-78.
  440. -Kret ME, Jaasma L, Bionda T, Wijnen JG. Bonobos (*Pan paniscus*) show an attentional bias toward conspecifics' emotions. *Proc Natl Acad Sci U S A.* 2016;113(14):3761-6
  441. -Kuba R, Musilová K, Brázdil M, Rektor I. Peri-ictal yawning lateralizes the seizure onset zone to the nondominant hemisphere in patients with temporal lobe epilepsy. *Epilepsy Behav.* 2010;19(3):311-4
  442. -Kuballa G, Nowak P, et al. Central effects of nafadotride, a dopamine D3 receptor antagonist, in rats. Comparison with haloperidol and clozapine. *Pharmacol Rep* 2005;57(2)161-169
  443. -Kubota N, Amemiya S, Motoki C, Otsuka T, Nishijima T, Kita I. Corticotropin-releasing factor antagonist reduces activation of noradrenalin and serotonin neurons in the locus coeruleus and dorsal raphe in the arousal response accompanied by yawning behavior in rats. *Neurosci Res.* 2012;72(4):316-323
  444. -Kubota N, Amemiya S, Yanagita S, Nishijima T, Kita I. Emotional stress evoked by classical fear conditioning induces yawning behavior in rats. *Neurosci Lett.* 2014;566:182-187
  445. -Kubota N, Amemiya S, Yanagita S, Kita I. Neural pathways from the central nucleus of the amygdala to the paraventricular nucleus of the hypothalamus are involved in induction of yawning behavior due to emotional stress in rats. *Behav Brain Res.* 2022 Sep 1:114091.
  446. -Kumar D, Arora DR. The mystery behind "yawning": a physiological insight. *Journal of Health and Allied Sciences* 2020

447. -Kurjak A, Azumendi G, et al Fetal hand movements and facial expression in normal pregnancy studied by four-dimensional sonography *J. Perinat. Med.* 2003;31:496-508
448. -Kurjak A, Azumendi G, et al. The potential of 4D ultrasonography in the assessment of fetal awareness *J Perinat Med* 2005;33:46-53
449. -Kurjak A, M Stanojevic et al Behavioral pattern continuity from prenatal to postnatal life a study by four dimensional (4D) ultrasonography *J Perinat Med* 2004;32:346-353
450. -Kutty RK, Alapatt JP, Govindan A. Intractable Yawning as a Predominant Symptom of Temporal Lobe Ganglioglioma: Case Report and Review of Literature. *Asian J Neurosurg.* 2018;13(1):102-104.
451. Lagares A et al Short-lasting unilateral neuralgiform headache with conjunctival injection and tearing syndrome treated with microvascular decompression of the trigeminal nerve *Neurosurgery* 2005;56(2):413
452. -Laing J, Ogilvie R EEG correlats of yawning during sleep onset *Sleep Research* 1988;17:98
453. -Lal S, Tesfaye Y, Thavundayil JX, Skorzewewska A, Schwartz G Effect of time-of-day on yawning response to apomorphine in normal subjects *Neuropsychobiology* 2000;41(4):178-180
454. -Lal S, Grassino A, Thavundayil YX, Bubrovsky B A simple method for study of yawning in man induced by the dopamine receptor agonist, apomorphine. *Progr Neuropsychopharmacol Biol Psychiatry* 1987;11: 223-228
455. -Lal S, Tesfaye Y et al Apomorphine: clinical studies on erectile impotence and yawning. *Prog Neuropsychopharmacol Biol Psychiatry* 1989;13(3-4):329-39
456. -Lal S Apomorphine in the evaluation of dopaminergic function in man *Prog Neuropsychopharmacol Biol Psychiatry* 1988;12(2-3):117-64
457. -Lal S, Thavundayil JX, et al. Induction of tolerance of dopaminergic responses in man. *J Neural Transm.* 2008;115(8):1189-119
458. -Lana-Peixoto MA, Callegaro D, Talim N, Talim LE, Pereira SA, Campos GB. Pathologic yawning in neuromyelitis optica spectrum disorders. *Mult Scler Relat Disord.* 2014;3(4):527-32.
459. -Lanari A, Delbono O The yawning and stretching sign in hemiplegics *Medicina (B Aires)* 1983;43(3):355-356
460. -Lane JD Effects of brief caffeinated-beverage deprivation on mood, symptoms, and psychomotor performance. *Pharmacol Biochem Behav.* 1997;58(1):203-208
461. -Lane JD, Phillips-Bute BG Caffeine deprivation affects vigilance performance and mood. *Physiol Behav.* 1998;65(1):171-175
462. -Lanthorn TH, Isaacson RL Stretching and yawning: a role of glutamate *Psychopharmacology (Berl)* 1979;65(3)317-318
463. -Laping NJ, Ramirez VD Prolactin-induced yawning behavior requires an intact nigro-striatal dopamine system *Pharmacol Biochem Behav* 1988;29(1):59-62
464. -Laping NJ, Ramirez VD Prolactin induces yawning and the stretching yawning syndrome in young adulte male rats. *Hormones & Behavior* 1986;20:49-59
465. -Laping NJ, Ramirez VD. Yawning behavior in male rats is associated with decreases in in vivo DOPAC efflux from the caudate nucleus. *Behav Brain Res.* 1990;36(1-2):65-72.
466. -Lapresle J La voie dento-olivaire : mise en évidence, trajet et signification *Bull Acad Nat Med* 1984, 168, 336-341 séance du 6/3/84.
467. -Larsson k, S Ahlenius Brain and sexual behavior *Annals of the New York Academy of Sciences* 1999;877:292-308
468. -Laskiewicz A The role of the Eusatchius tube and the tympanal muscles in yawning *Rev Laryngol Otol Rhinol.* 1953;74(5-6)
469. -Laskiewicz A Yawning with regard to the respiratoty organs and the ear. *Acta Oto laryngologica (Stockholm)* 1953;43(2-3):267-270
470. -Laurell K, Artto V, Bendtsen L, Hagen K, Häggström J, Linde M, Söderström L, Tronvik E, Wessman M, Zwart JA, Kallela M. Premonitory symptoms in migraine: A cross-sectional study in 2714 persons. *Cephalalgia.* 2015 Dec 6.
471. -Laurent-Vannier A, Fadda G, Laigle P, Dusser A, Leroy-Malherbe V Foix-Chavany-Marie syndrome in a child caused by a head trauma *Rev Neurol (Paris)* 1999;155(5):387-90
472. -Lebit F-D, Vladareanu R. The Role of 4D Ultrasound in the Assessment of Fetal Behaviour. *Maedica.* 2011;6(2); 120 -127
473. -Lee SJ, Yie K, Chon SB. Juvenile First Rib Fracture Caused by Morning Stretching. *J Emerg Med.* 2012;43(2):e 119-121
474. -Leger L, Charnay Y, Hof PR, Bouras C, Cespuglio R Anatomical distribution of serotonin-containing neurons and axons in the central nervous system of the cat. *J Comp Neurol* 2001;433(2):157-82
475. -Lehmann H Yawning : a homeostatic reflexe and its psychological signifance *Bull Menninger Clinic* 1979;43:123-126
476. -Leone A, Mignini M, Mancini G, Palagi E. Aggression does not increase friendly contacts among bystanders in geladas (*Theropithecus gelada*) Primates. 2010;51(4):299-305

477. -Leone A, Ferrari PF, Palagi E. Different yawns, different functions? Testing social hypotheses on spontaneous yawning in *Theropithecus gelada*. *Scientific Reports* 2014;4:4010
478. -Leonhardt M, Abele M, Klockegether T, Dickgans J, Weller M Pathological yawning (chasm) associated with periodic leg movements in sleep: cure by levodopa. *J Neurolog* 1999;246(7):621-622
479. -Lepp FH Remarques sur la signification physiologique du bâillement *Bull Group Int Rech Sci Stomatol Odontol* 1982;25:251-29
480. -Lesimple C. Indicators of Horse Welfare: State-of-the-Art. *Animals* 2020;10(2):294
481. -Liecey Nouvelle observation de bâillement convulsif périodique *Le Courrier Médical* 1879;29:334-336
482. -Liégey Deux observations de bâillements intermittents *Gazette médicale de Strasbourg* 1851
483. -Li SM, Collins GT et al. Yawning and locomotor behavior induced by dopamine receptor agonists in mice and rat. *Behav Pharmacol.* 2010; 21(3): 171–181.
484. -de Lima O, Munhoz R, Becker N, Teive H. Parakinesia Brachialis Oscitans. Report of three cases. *Parkinsonism Relat Disord.* 2012;18(2):204-6.
485. -Liu YC, Sachs BD, Salamone JD. Sexual behavior in male rats after radiofrequency or dopamine-depleting lesions in nucleus accumbens. *Pharmacol Biochem Behav.* 1998;60(2):585-592
486. -Liu L, Ji Y, Gao Y, Ping Z, Kuang L, Li T, Xu W. A Novel Fatigue Driving State Recognition and Warning Method Based on EEG and EOG Signals. *J Healthc Eng.* 2021 Nov 22;2021:7799793
487. -Lobo LL, Neumann BG, Eidman DS, Tufik S Effects of REM sleep deprivation of ACTH-induced yawning. *Pharmacology* 1990;40(3):174-178
488. -Lobo LL, de Medeiros R, Hipolide DC, Tufik S. Atropine increases pilocarpine-induced yawning behavior in paradoxical sleep deprived rats. *Pharmacol Biochem Behav.* 1995;52(3):485-488.
489. -Loder A What is the evolutionary advantage of migraine ? *Cephalalgia* 2002;22:624-632
490. -Longoni R et al Permissive role of D1 receptor stimulation by endogenous dopamine for the expression of postsynaptic D2 mediated behavioural responses Yawning in rats *Eur J Pharmacol* 1987;134(2):163-73
491. -Louboungou M, JR Anderson Yawning, scratching, and protruded lips : differential conditionability of natural acts in Pigtail Monkeys *Primates* July 1987;23(3):367-375
492. -Louwse E Forced yawning as a pseudobulbar sign in amyotrophic lateral sclerosis *J Neuroscience Research* 1998, sup, 392
493. -Lum L et al. Hyperventilation-induced high-amplitude rhythmic slowing with altered awareness: a video-eeeg comparison with absence seizures. *Epilepsia* 2002;43(11):1372-1378
494. -Luttenberger F The problem of yawning in reptiles *Z Tierpsychol* 1975; 37; 2; 113-137
495. -Lutz C, Tiefenbacher S, Meyer J, Novak M. Extinction deficits in male rhesus macaques with a history of self-injurious behavior. *Am J Primatol.* 2004;63(2):41-48
496. -Lynch MR Dissociation of autoreceptor activation and behavioral consequences of low doses apomorphine treatment *Prog Neuro-Psychopharmacol & Biol Psychiat* 1991;15:689-698
497. -Macapinlac MP, Olson JA A lethal hypervitaminosis A syndrome in young monkeys (*Macacus fascicularis*) following a single intramuscular dose of a water-miscible preparation containing vitamins A, D2 and E. *Int J Vitam Nutr Res* 1981;51(4):331-41
498. -Madsen EA, Persson T. Contagious yawning in domestic dog puppies (*Canis lupus familiaris*): the effect of ontogeny and emotional closeness on low-level imitation in dogs. *Anim Cogn.* 2013;16(2):233-240
499. -Madsen EA, Persson T, Sayehli S, Lenninger S, Sonesson. Chimpanzees show a developmental increase in susceptibility to contagious yawning: a test of the effect of ontogeny and emotional closeness on yawn contagion. *PLoS One.* 2013;8(10):e76266
500. -Maeda N et al Septohippocampal cholinergic pathway and penile erections induced by dopaminergic and cholinergic stimulants *Brain Research* 1990;537:163-168
501. Maestripieri D, Schino G, Aureli F, Troisi P. A modest proposal: displacement activities as an indicator of emotions in primates. *Anim Behav* 1992;44:967-979
502. -Mafessoni F, Lachmann M. The complexity of understanding others as the evolutionary origin of empathy and emotional contagion. *Scientific Reports* 2019;9:5794.
503. -Mahajan A, Zillgitt A, Bowyer SM, Sidiropoulos C. Sensory Trick in a Patient with Cervical Dystonia: Insights from Magnetoencephalography. *Brain Sciences* 2018;8(4):51
504. -Masuzaki H Color Dopplerimaging of foetal yawning *Ultrasound in obstetric & gynecolgy* 1996;8(5):355-356
505. -Major CA, Kelly BJ, Novak MA, Davenport MD, Stonemetz KM, Meyer JS. The anxiogenic drug FG7142 increases self-injurious behavior in male rhesus monkeys (*Macaca mulatta*). *Life Sci.* 2009;85(21-22):753-758
506. -Mancuso F, Porta R, Calignano A, Di Pierro P, Sommella MG, Esposito C Substance P and its transglutaminase-synthesized spermine derivative elicit yawning behavior via nitric oxide in rats. *Peptides* 2001;22(9):453-457
507. -Marraffa A, Lekander M, Solsjö P, Olsson MJ, Lasselin J, Axelsson J. Yawning, a thermoregulatory mechanism during fever? A study of yawning frequency and its predictors during experimentally



- induced sickness. *Physiol Behav* 2017
508. -Marchese G, Ruiu S, Casti P, Bartholini F, Saba P, Gessa GL, Pani L. Carmoxirole is able to reduce amisulpride-induced hyperprolactinemia without affecting its central effect. *Eur J Pharmacol.* 2002;447(1):109-114
  509. -Marcus N Yawning: analytic and therapeutic considerations *Int J child Psychotherapy* 1973;2(4):406-418
  510. -Mariscal MG, Oztan O, Rose SM, Libove RA, Jackson LP, Sumiyoshi RD, Trujillo TH, Carson DS, Phillips JM, Garner JP, Hardan AY, Parker KJ. Blood oxytocin concentration positively predicts contagious yawning behavior in children with autism spectrum disorder. *Autism Res.* 2019;12(8):1156-1161
  511. -Marini JL Serotonergic and dopaminergic effects on yawning in the cat *Pharmacol Biochem Behav*,1981;15:711-715
  512. -Marsden CD Blepharospasm-romandibular dystonia syndrom *J Neurology Neurosurgery Psychiatry* 1976;39(12):1204-1209
  513. -Martelle JL, Claytor R, Ross JT, Reboussin BA, Newman AH, Nader MA. Effects of two novel D3-selective compounds, NGB 2904 and CJB 090, on the reinforcing and discriminative stimulus effects of cocaine in rhesus monkeys. *J Pharmacol Exp Ther.* 2007;321(2):573-582
  514. Martelle SE, Nader SH, Czoty PW, John WS, Duke AN, Garg PK, Garg S, Newman AH, Nader MA. Further Characterization of Quinpirole-Elicited Yawning As a Model of Dopamine D3 Receptor Activation in Male and Female Monkeys. *J Pharmacol Exp Ther.* 2014;350(2):205-211
  515. -Marx V, Nagy E. Fetal Behavioural Response to Maternal Voice and Touch. *PlosOne*, June 8, 2015
  516. -Masi G, Brovedani P Tourette's syndrome in children: neurobiological issues in pathophysiology. *Panminerva Med* 2000;42(1):61-7
  517. -Massen JJM, Dusch K, Eldakar OT, Gallup AC. A Thermal Window for Yawning in Humans: Yawning as a Brain Cooling Mechanism. *Physiology Behavior* 2014;130:145-8.
  518. -Massen JJM, Church AM and Gallup AC. Auditory Contagious Yawning in Humans: An Investigation into Affiliation and Status Effects. *Front. Psychol.* 2015;6:1735.
  519. -Massen JJ, Vermunt DA, Sterck EH. Male Yawning Is More Contagious than Female Yawning among Chimpanzees (*Pan troglodytes*). *PLoS One.* 2012;7(7):e40697
  520. -Massen JJ, Slipogor V, Gallup AC. An Observational Investigation of Behavioral Contagion in Common Marmosets (*Callithrix jacchus*): Indications for Contagious Scent-Marking. *Front Psychol.* 2016;7:1190.
  521. -Massen JJM, Gallup AC. Why contagious yawning does not (yet) equate to empathy. *Neurosci Biobehav Rev.* 2017;80:573-585.
  522. -Matikainen J, Elo H Does yawning increase arousal through mechanical stimulation of the carotid body? *Med Hypotheses* 2008;70(3):488-492
  523. -Matsangas P, McCauley ME Yawning as a behavioral marker of mild motion sickness and sopite syndrome. *Aviat Space Environ Med* 2014;85:658-661
  524. -Matsumoto S, Yamada K, Nagashima M, Matsuo N, Shirakawa K, Furukawa T Potentiation by serotonergic inhibition of yawning induced by dopamine receptor agonists in rats. *Pharmacol Biochem Behav* 1989;32(3): 815-8
  525. -Matsumoto S et al. Occurrence of yawning and decrease of prolactin levels via stimulation of dopamine D2-receptors after administration of SND 919 in rats *Naunyn-Schmiedeberg's Arch Pharmacol* 1989;340:21-25
  526. -McCorkell S Fractures of the styloid process and stylohyoid ligament: an uncommon injury *J of Trauma* 1985;25(10):1010-1012
  527. -McCutcheon FH Stimulation, control and phylogenetic projection of the teleostean yawn reflex *Comp Biochem Physiol* 1970;34:339-344
  528. -McGinnis J Fracture of an ossified stylohyoid bone *Arch Otolaryngol* 1981;107: 460
  529. -McKenzie AA The tonsillar evacuation hypothesis of yawning behaviour. *South african J of Sci.* 1994;90:64-66
  530. -McLean P Evolutionary psychiatry and the triune brain. *Psychological Medicine* 1985;15(2):19-221
  531. -McLean JD, Forsythe RG, Kapkin IA Unusual side effects of clomipramine associated with yawning *Can J Psychiatry* 1983;28(7):569-70
  532. -McManus B, Devine P, Brandsetter RD A fetal yawn? *N Engl J Med* 1997;336:1329-1330
  533. -McNamara P. Yawning, an evolutionary psychology of sleep and dreams. *Praeger ed.* 2004:59-60
  534. -McNeil JE, Warrington EK Prosopagnosia: a reclassification. *Q J Exp Psychol A* 1991;43(2):267-287
  535. -Medrano V, Selles-Galiana MF, et al. Bostezo y epilepsia del lobulo temporal *Revista de Neurologia* 2005;41(1):63-64
  536. -Melis MR, Argiolas A, Gessa Apomorphine-induced penile erection and yawning : site of action in brain *Brain Research* 1987;415:98-104
  537. -Melis MR, A Argiolas, GL Gessa Evidence that apomorphine induces penile erection and yawning by releasing oxytocin in the central nervous system *European J Pharmacol* 1989;164:565-570

538. -Melis MR, Spano MS, Succu S, Argiolas A Activation of gamma-aminobutyric acid(A) receptors in the paraventricular nucleus of the hypothalamus reduces apomorphine-, N-methyl-D-aspartic acid- and oxytocin-induced penile erection and yawning in male rats. *Neurosci Lett* 2000; 28;1(2-3):127-30
539. -Melis MR, R Stancampiano, A Argiolas Prevention by ng-nitro-l-arginine methyl ester of apomorphine- and oxytocin-induced penile erection and yawning: site of action in the brain *Pharmacol Biochem Behav* 1994;48(3):799-804
540. -Melis MR., S Succu, et al. Dopamine agonists increase nitric oxide production in the paraventricular nucleus of the hypothalamus: correlation with penile erection and yawning. *Eur J Neurosci* 1996;8(10):2056-63
541. -Melis MR, Argiolas A Role of central nitric oxide in the control of penile erection and yawning *Prog Neuropsychopharmacol Biol Psychiatry* 1997;21(6):899-922 (abstract)
542. -Melis MR, et al Nitroglycerin-induced penile erection and yawning in male rats: mechanism of action in the brain *Brain Res Bull* 1995;36(6):527-531
543. -Melis MR, Argiolas A Role of nitric oxide in penile erection and yawning induced by 5-HT1c receptor agonists in male rats *Naunyn-Schmiedeberg's arch Pharmacol* 1995;351:439-445
544. -Melis MR, Argiolas A Yawning role of hypothalamic paraventricular nitric oxide *Acta Pharmacologica Sinica* 1999;20(9):778-788
545. -Melis MR et al Dopamine agonists increase nitric oxide production in the paraventricular nucleus of the hypothalamus: correlation with penile erection and yawning *Europ J Neurosci* 1996;8:2056-2063
546. -Melis MR, Argiolas A Apomorphine and Oxytocin induced penile erection and yawning in intact and castrated male rats : effect of sexual steroids *Neuroendocrinology* 1994;59:349-354
547. -Melis MR, Argiolas A Nitric oxide synthase inhibitors prevent apomorphine and oxytocin-induced penile erection and yawning in male rats *Brain Res Bull* 1993;32(1):71-74
548. -Melis MR, Stancampiano R, Argiolas A Hippocampal oxytocin mediates apomorphine-induced penile erection and yawning. *Pharmacol Biochem Behav* 1992;42(1):61-6
549. -Melis MR et Argiolas A Nitric oxide donors induce penile erection and yawning when injected in the central nervous system of male rats *European J Pharmacology* 1995;294:1-9
550. -Melis MR et al Oxytocin increases nitric oxide production in the paraventricular nucleus of the hypothalamus of male rats: correlation with penile erection and yawning *Regulatory Peptides* 1997;69:105-11
551. -Melis MR , A.Argiolas. Reduction of drug-induced yawning and penile erection and of noncontact erections in male rats by the activation of GABAA receptors in the paraventricular nucleus: involvement of nitric oxide *Eur J Neurosci* 2002;15(5):852-60
552. -Melis MR et al. Prevention by morphine of apomorphine- and oxytocin-induced penile erection and yawning: involvement of nitric oxide *Naunyn-Schmiedeberg's arch Pharmacol* 1997;600:355-595
553. -Melis MR et al Prevention by morphine of N-Methyl-D-Aspartic Acid induced penile erection and yawning: involvement of Nitric Oxide *Brain Res Bull* 1997;44(6):689-694
554. -Melis MR, Succu S. EP 60761 and EP 50885, two hexarelin analogues, induce penile erection in rats. *Eur J Pharmacol.* 2000;404(1-2):137-143
555. -Melis MR, Succu S, et al. Extra-cellular dopamine increases in the paraventricular nucleus of male rats during sexual activity *Eur J Neurosci* 2003;17:1266-1272
556. -Melis MR, Stancampiano R, Argiolas A. Penile erection and yawning induced by paraventricular NMDA injection in male rats are mediated by oxytocin. *Pharmacol Biochem Behav.* 1994;48(1):203-207
557. -Menin D, Aureli T, Dondi M. Two forms of yawning modulation in three months old infants during the Face to Face Still Face paradigm. *PLoS One.* 2022;17(2):e0263510.
558. -Meltzoff AN, Moore MK Newborn infants imitate adult facial gestures. *Child Dev* 1983;54(3):702-9
559. -Meltzoff AN, Moore MK Imitation of facial and manual gestures by human neonates. *Science* 1977;198(4312):74-78
560. -Menin D, Casrabile A, Tenuta F, Dondi M. Identifying Fetal Yawns Based on Temporal Dynamics of Mouth Openings: A Preterm Neonate Model Using Support Vector Machines (SVMs). *PloS One* 14 (12), e0226921
561. -Menin D, Ballardini E, Panebianco R, Garani G, Borgna-Pignatti C, Oster H, Dondi M. Factors affecting yawning frequencies in preterm neonates. *PLoS One* 2022;17(5):e0268083.
562. -Meshavkin VK, Batishcheva EY, Kost NV, Sokolov OY, Trufanova AV, Samonina GE. Effects of Pro-Gly-Pro tripeptide on the dopamine system. *Bull Exp Biol Med.* 2011;151(4):429-431
563. -Miklosi A The ethological analysis of imitation. *Biol Rev Camb Philos Soc* 1999;74(3):347-374
564. -Millen A, Anderson JR Neither infants nor toddlers catch yawns from their mothers. *Biol Letters* 2011;7(3):440-442
565. -Miller E A comparative study of facial expressions of two species of pinnipeds *Behaviour* 1975;53(3-4):268-284
566. -Miller ML, Gallup AC et al. Handling stress initially inhibits, but then potentiates yawning in budgerigars (*Melopsittacus undulatus*). *Animal Behaviour.* 2010;80(4):615-619

567. -Miller ML, Gallup AC, Vogel AR, Vicario SM, Clark AB. Evidence for contagious behaviors in budgerigars (*Melopsittacus undulatus*): An observational study of yawning and stretching. *Behav Processes*. 2012;89(3):264-270
568. -Miller ML, Gallup AC, Vogel AR, Clark AB. Auditory disturbances promote temporal clustering of yawning and stretching in small groups of budgerigars (*Melopsittacus undulatus*). *J Comp Psychol*. 2012
569. -Millan MJ, Dekeyne A S33084, a novel, potent, selective, and competitive antagonist at dopamine D(3)-receptors: II. Functional and behavioral profile compared with GR218,231 and L741,626 *J Pharmacol Exp Ther* 2000;293(3):1063-1073
570. -Mitsunobu F, Ashida K, et al. Yawning associated with anterior chest pain in a patient with asthma. *Annual reports of Misasa Medical Center, Okayama University Medical School*. 2003
571. -Mizukami K Very young infants yawn or cry after watching animated programs development *Behavioral Pediat* 1990;11(3):3
572. -Minagar A, Sheremata WA *Glossopharyngeal neuralgia and MS Neurology* 2000;54(6):1368-70
573. -Miyazaki M, Y Tanaka et al Attack of yawning, case report *Rinsho Shinkeigaku* 1985;25(9):1007-9
574. -Modell JG Repeated observations of yawning, clitoral engorgement, and orgasm associated with fluoxetine administration. *J Clin Psychopharmacol* 1989;9(1):63-5
575. -Moertel CL, Carlson-Green B, Watterson J, Simonton SC. Lymphomatoid granulomatosis after childhood acute lymphoblastic leukemia: report of effective therapy. *Pediatrics*. 2001;107(5):E82.
576. -Mogilnicka E, Wedzony K, Klimek V, Czyrak A Desipramine induces yawning behaviour in rats *Neuropharmacology* 1986;25(7):783-6
577. -Mogilnicka E, Klimek V Drugs affecting dopamine neurons and yawning behavior. *Pharmacol Biochem Behav* 1977;7:303-305
578. -Mogilnicka E REM sleep deprivation changes behavioral response to catecholaminergic and serotonergic receptor activation in rats *Pharmacol Biochem Behav* 1981;15(1):149-151
579. -Mogilnicka E, Boissard CG, Delini-Stula A. Effects of apomorphine, TL-99 and 3-PPP on yawning in rats. *Neuropharmacology*. 1984;23(1):19-22
580. -Montagu A On Yawning *JAMA*;1962;732:152
581. -Moore J Some psychological aspects of yawning *The Journal of General Psychology* 1942;27:289-294
582. -Mora S et al LHRH antagonizes yawning and genital grooming induced by apomorphine in rats. *Pharmacol Biochem Behav*. 1989;31(3):717-720
583. -Morelli M et al Antagonism of apomorphine-induced yawning by SCH 23390: Evidence against the autoreceptor hypothesis *Psychopharmacology* 1986;89:259-260
584. -Morton HJV Yawning during thiopentone induction *Br J Anesthesia* 1962;34:133-134
585. -Moyaho A et al Induced grooming transitions and open field behaviour differ in high- and low-yawning sublines of Sprague-Dawley rats *Animal Behavior* 1995;50:61-72
586. -Moyaho A, Valencia J Grooming and yawning trace adjustment to unfamiliar environments in laboratory Sprague-Dawley rats *J Comparative Psychology* 2002;116(3):263-269
587. -Moyaho A et al. Genetic and littermate influences on yawning in two selectively bred strains of rats *Dev Psychobiol*. 2009;51(3):243-248
588. -Moyaho A, Rivas-Zamudio X, Ugarte A, Eguibar JR, Valencia J. Smell facilitates auditory contagious yawning in stranger rats. *Anim Cogn*. 2015;18(1):279-290.
589. -Moyaho, A. Flores Urbina, E. Monjaraz Guzmán, O. Walusinski. Yawning: a cue and a signal. *Heliyon* 2017;3(11)
590. -Moyaho A, Díaz-Loyo AP, Juárez-Mora OE, Beristain-Castillo E. A Laboratory Method to Measure Contagious Yawning in Rats. *J Vis Exp*. 2019;(148).
591. -Muchnik, Finkielman, et al Yawning and temporal lobe epilepsy *Medicina (B Aires)* 2003;63(2):137-139
592. -Mulhern MG Ocular complications of acoustic neuroma surgery *Br J Ophthalmol* 1999;83:1392-1389
593. -Muhlrad S Le réflexe sexuel de l'élévation des bras chez la femme *Pysché (Paris)* 1952;7(66):292-296
594. -Mulley G Associated reactions in the hemiplegic arm *Scand J Rehabil Med* 1982;14:117-20
595. -Mutschler I, Reinbold C, Wankerl J, Seifritz E, Ball T. Structural basis of empathy and the domain general region in the anterior insular cortex. *Front Hum Neurosci*. 2013
596. -Myrberg A Ethology of the bicolor damselfish *Eupomacentrus partitus* *Animal behaviour monographs* 1972;5:197-283
597. -Nahab FB, Hattori N, Saad ZS, Hallett M Contagious yawning and the frontal lobe: An fMRI study *Human Brain Mapping* 2009;30:1744-1751
598. -Nakamura-Palacios E et al. Acute or chronic effects of cannabinoids on spontaneous or pharmacologically induced yawning in rats *Pharmacology, Biochemistry and Behavior* 2002;74:205-212
599. -Napier JR, Napier PH Yawning serves as a visual signal in primates. *The Natural History of the Primates*. British Museum, London England 1985
600. -Naselo A, Tieppo C, Felicio L Apomorphine induced yawning in the rat : influence of fasting and

- time of day *Physiology & Behavior* 1995;57(5):967-971
601. -Nasello AG et al Modulation by sudden darkness of apomorphine-induced behavioral responses *Physiology & Behavior* 2003;78:521-525
  602. -Nayak R, Bhogale GS, Patil NM. Venlafaxine and excessive yawning: is there any link? *J Neuropsychiatry Clin Neurosci.* 2011 Spring;23(2):E56-7.
  603. -Neilands P, Claessens S, Ren I, Hassall R, Bastaos A, Taylor A. Contagious yawning is not a signal of empathy: no evidence of familiarity, gender or prosociality biases in dog. *Proceedings of the Royal Society B.* 2020; 287(120)
  604. -Ndiokwelu E Bilateral dislocation of the mandible 2 cases in a nuclear family *Odontostomatol Trop.* 2005;28(112):27-3
  605. -Neumann BG, Troncone LR, Braz S, Tufik S Modifications on dopaminergic and cholinergic systems induced by the water tank technique: analysis through yawning behavior. *Arch Int Pharmacodyn Ther* 1990;308;:32-38
  606. Newman AH, Blaylock BL, Nader MA, Bergman J, Sibley DR, Skolnick P. Medication discovery for addiction: translating the dopamine D3 receptor hypothesis. *Biochem Pharmacol.* 2012 Oct 1;84(7):882-90.
  607. -Noughab MT, Vaezi G, Eivari HA, Hojati V. Acute and chronic effects of opiates and dopamine on yawning, penile erection and genital grooming behaviors in male Wistar rats. *Biomedical Research* 2017;28(16):6931-6936.
  608. -Nicotra A, Khalil NM, Owbridge P, Hakda M, Beitverda Y. Pathological yawning as an ictal seizure manifestation in the elderly. *BMJ case reports.* 2012
  609. -Norscia I, Palagi E. Yawn Contagion and Empathy in Homo sapiens. *PLoS ONE.* 2011;6(12): e28472
  610. -Norscia I, Demuru E, Palagi E. She more than he: gender bias supports the empathic nature of yawn contagion in Homo sapiens. *R. Soc. open sci.* 2016;3:150459. <http://dx.doi.org/10.1098/rsos.150459>
  611. -Norscia I, Zanolì A, Gamba M, Palagi E. Auditory Contagious Yawning Is Highest Between Friends and Family Members: Support to the Emotional Bias Hypothesis. *Front Psychol.* 2020;11:442
  612. -Norscia, I., Coco, E., Robino, C. et al. Yawn contagion in domestic pigs (*Sus scrofa*). *Sci Rep* 2021;11:1851.
  613. -Norscia I, Agostini L, Moroni A, Caselli M, Micheletti-Cremasco M, Vardé C, Palagi E. Yawning Is More Contagious in Pregnant Than Nulliparous Women: Naturalistic and Experimental Evidence. *Hum Nat.* 2021
  614. -Norscia I, Caselli M, De Meo G, Cordonì G, Guéry JP, Demuru E. Yawn contagion in bonobos: Another group, another story. *Am J Primatol.* 2022:e23366.
  615. -Nowak P, Labus L, Kostrzewa RM, Brus R. DSP-4 prevents dopamine receptor priming by quinpirole *Pharmacol Biochem Behav.* 2006;84(1):3-7
  616. -Nowak P et al. Neonatal co-lesion by DSP-4 and 5,7-DHT produces adulthood behavioral sensitization to dopamine D(2) receptor agonists *Pharmacol Rep.* 2009;61(2):311-318
  617. -Nunes GP et al. Decreased muscarinic receptor binding in rat brain after paradoxical sleep deprivation: an autoradiographic study *Brain Res.* 1994;645(1-2):247-252
  618. -Ochoa-Sepulveda JJ, Ochoa-Amor JJ Ondine's curse during pregnancy *J Neurol Neurosurg Psychiatry* 2005;76:294
  619. -Ogura H, Kosasa T, Kuriya Y, Yamanishi Y Central and peripheral activity of cholinesterase inhibitors as revealed by yawning and fasciculation in rats. *Eur J Pharmacol.* 2001;415(2-3):157-64
  620. -Oh JY, Kim JE, Park KD, Choi Kg A case of familial inverse Marcus Gunn phenomenon *J Neurol Neurosurg Psychiatry* 2003;74:278
  621. -O'Hara SJ, Reeve AV A test of the yawning contagion and emotional connectedness hypothesis in dogs, *Canis familiaris.* *Animal Behaviour* 2011;81:335-340
  622. -Ohmura Y, Jutkiewicz EM, Zhang A, Domino EF. Dopamine D1/5 and D2/3 agonists differentially attenuate somatic signs of nicotine withdrawal in rats. *Pharmacol Biochem Behav.* 2011;99(4):552-556
  623. -Okuyama S et al Relation between yawning behavior and central serotonergic neural system in rats *Naunyn-Schmiedeberg's Arch Pharmacol* 1987;335:667-672
  624. -Oman RE, Sullivan SJ, Fleury J, Dutil E Yawning: a possible confounding variable in EMG biofeedback studies. *Biofeedback Self Regul* 1989;14(4):339-46
  625. -O'Neill B, Aronson A, Pearson B, Nauss L Superior laryngeal neuralgia: carotidynia or just another pain in the neck? *Headache* 1982;22:6
  626. -Opp MR, Obal F Jr, Krueger JM. Effects of alpha-MSH on sleep, behavior, and brain temperature: interactions with IL 1 *Am J Physiol.* 1988;255(6 Pt 2):R914-22.
  627. -Oreskovic D; Klarica M; Vukic M The formation and circulation of cerebrospinal fluid inside the cat brain ventricles : a fact or an illusion ? *Neuroscience Letters* 2002;327:103-106
  628. -Oshima T et al. Inhibitory effects of landiolol and nicardipine on thiopental-induced yawning in humans *J Anesth* 2010;24(2):168-172
  629. -Ostrea EM Jr, Chavez CJ, Strauss ME A study of factors that influence the severity of neonatal

- narcotic withdrawal. *Addict Dis* 1975;2(1-2):187-99
630. -O'Sullivan JD, Lees AJ, Hughes AJ Yawning in Parkinson's disease *Neurology* 1999;52(2):428
  631. -Oswiecimska J, Brus R, Szkilnik R, Nowak P, Kostrzewa RM 7-OH-DPAT, unlike quinpirole, does not prime a yawning response in rats *Pharmacol Biochem Behav.* 2000;67:11-15
  632. -Ouagazzal AM, Creese I. Intra-accumbens infusion of D(3) receptor agonists reduces spontaneous and dopamine-induced locomotion. *Pharmacol Biochem Behav.* 2000;67(3):637-645
  633. -Pace-Schott EF, A Hobson The neurobiology of sleep: genetics, cellular physiology and subcortical networks *Nature Reviews Neuroscience* 2002;3:591-605
  634. -Pae CU, JJ Kim et al Injured temporomandibular joint associated with fluoxetine-monotherapy-induced repeated yawning *Gen Hosp Psychiatry* 2003;25(3):217-8
  635. -Pal S, Padala PR. A case of excessive yawning with citalopram *J Clin Psychiatry* 2009;11(3):126
  636. -Palagi E, Leone A, Mancini G, Ferrari PF. Contagious yawning in gelada baboons as a possible expression of empathy. *Proc Natl Acad Sci USA.* 2009;106(46):19262-19267
  637. -Palagi E, Norscia I, Demuru E. Yawn contagion in humans and bonobos: emotional affinity matters more than species *PeerJ* 2:e519
  638. -Palagi E, Norscia I, Cordoni G. Lowland gorillas (*Gorilla gorilla gorilla*) failed to respond to others' yawn: Experimental and naturalistic evidence. *J Comp Psychol.* 2019
  639. -Palagi E, Guillén-Salazar F, Llamazares-Martín C. Spontaneous Yawning and its Potential Functions in South American Sea Lions (*Otaria flavescens*). *Sci Rep.* 2019;9(1):17226.
  640. -Palagi E, Cordoni G. Intraspecific Motor and Emotional Alignment in Dogs and Wolves: The Basic Building Blocks of Dog-Human Affective Connectedness. *Animals* 2020;10(2):241
  641. -Palagi E, Celeghin A, Tamietto M, Winkielman P, Norscia I. The neuroethology of spontaneous mimicry and emotional contagion in human and non-human animals. *Neurosci Biobehav Rev.* 2020;111:149-165.
  642. -Panksepp J Effects of ACTH(1-24) and ACTH/MSH(4-10) on isolation-induced distress vocalization in domestic chicks *Peptides* 1990;11(5):915-919
  643. -Paredes RG, Karam P, Highland L, Agmo A GABAergic drugs and socio-sexual behavior *Pharmacol BiochemBehav* 1997;58(2):291-298-
  644. Park JJ, Luedeke I, Luecke K. et al. Eustachian tube function in patients with inner ear disorders. *Eur Arch Otorhinolaryngol.* 2012
  645. -Patatanian E, Williams NT. Drug-induced yawning: a review. *Ann Pharmacother.* 2011;45(10):1297-301.
  646. -Patra P, Gunness TK, Robert R Physiologic variations of the internal jugular vein surface, role of the omohyoid muscle, a preliminary echographic study *Surg Radiol Anat* 1988;10(2):107-112
  647. -Paukner A, Anderson JR Video-induced yawning in stump-tail macaques (*Macaca arctoides*) *Biol Lett* 2006;2:36-38
  648. -Pedruzzi, L., Aychet, J., Le Vern, L. et al. Familiarity modulates both intra- and interspecific yawn contagion in red-capped mangabeys. *Sci Rep* 2022;12:11138
  649. -Pellatt A, Wright PG, Levine LS Yawning and the Thyroid Gland. *South African Journal of Science.* 1981;77:391-394
  650. -Penfield W, Jasper H Diencephalic autonomic seizures *Epilepsy and the functional anatomy of the human brain* Little Brown et company - Boston 1954
  651. -Peroutka SJ Dopamine and migraine *Neurology* 1997;49(3):650-6
  652. -Petrikovsky B, Kaplan G, Holsten N Fetal yawning activity in normal and high-risk fetuses: a preliminary observation. *Ultrasound Obstet Gynecol* 1999;13(2):127-30
  653. -Petrikovsky B, Kaplan GP, Pestrak H The application of color doppler technology to the study of fetal swallowing *Obstet Gynecol* 1995;86:605-608
  654. -Phillips-Bute BG, Lane JD. Caffeine withdrawal symptoms following brief caffeine deprivation. *Physiol Behav* 1997;63(1):35-39
  655. -Phoenix CH Threshold for behavioral response to testosterone in old castrated Male Rhesus Macaques *Biology of reproduction* 1986;35:918-926
  656. -Philibert C, Sauveplane K, Pinzani-Harter V et al. Le bâillement: de la physiologie à la iatrogénie. *La lettre du pneumologue.* 2011;14(5):168-172
  657. -Piontelli A. Development of Normal Fetal Movements. *The First 25 Weeks of Gestation.* Springer Ed. 2010. 133p.
  658. -Platek SM, SR Critton, et al Contagious yawning: the role of self-awareness and mental state attribution *Cogn Brain Res* 2003;17(2):223-227
  659. -Platek S, Mohamed F, Gallup G Contagious yawning and the brain *Cognitive Brain Research,* 2005;23:448-452
  660. Pluchon C, Jaafari N et al. A child with mutism after bilateral thalamic infarction. *J Clin Neurosci.* 2011;18(12):1738-1740.
  661. -Poggioli R, Valerja Vergoni A, et al. Influence of clonidine on the ACTH-induced behavioral syndrome, *European J. Pharmacol.* 1984;101:299-301

662. -Poggioli R et al Nitric oxide is involved in the ACTH-induced behavioral syndrome *Peptides* 1995;16(7):1263-1268
663. -Poggioli R, Benelli A, Arletti R, et al. Old rats are unresponsive to the behavioral effects of adrenocorticotropin. *Euro J Pharmacol* 1994;271:253-257
664. -Pomerantz SM Apomorphine facilitates male sexual behavior of Rhesus Monkeys *Pharmacology Biochemistry & Behavior* 1990;35:659-664
665. -Portillo W, Camacho F, Eguibar JR, Paredes RG Behavioral characterization of non-copulating male rats with high spontaneous yawning frequency rate. Portillo W, Camacho F, Eguibar JR. *Behav Brain Res.* 2010;214(2):225-230
666. -Poster et al Pathological Yawning as a symptom of SEP *J of neurology* 1999;243(3):300-301
667. -Prasad H Amelioration of pathological yawning after tracheostomy in a patient with locked-in syndrome *Europ J Neurol* 2008;15:e114
668. -Prescrire La Revue Apomorphine, Apokinon 1992;12(123):526-528
669. -Preter M, Klein DF Panic, suffocation false alarms, separation anxiety and endogenous opioids *Prog Neuropsychopharmacol Biol Psychiatry.* 2008;32(3):603-612
670. -Price HL, Deutsch S et al. Hemodynamic and metabolic effects of hemorrhage in man, with particular reference to the splanchnic circulation. 1966;18(5):469-474
671. -Protais P, Dubuc I, Costentin J Pharmacological characteristics of dopamine agonists on yawning behavior in rats. *Eur J pharmacological* 1983;94:271-280
672. -Protais P, Dubuc I, Colboc O, Costentin J Étude des récepteurs dopaminergiques dont la stimulation induit ou inhibe les bâillements chez le rat. *J Pharmacologie* 1982;sup1:191
673. -Protais P, Windsor M, Mocoer E, Comoye E Post-synaptic 5-HT<sub>1A</sub> receptor involvement in yawning and penile erections induced by apomorphine, physostigmine and MCPP, in rats *Psychopharmacology* 1995;120(4):376-383
674. -Provine RR, Tate BC Yawning: no effect of 3-5% CO<sub>2</sub>, 100% O<sub>2</sub>, and exercise *Behav Neural Biol* 1987;48(3):382-93
675. -Provine RR Contagious Yawning and infant imitation. *Bulletin Psychonomic Soc* 1989;27:125-126
676. -Provine RR, Hamernik HB Yawning: effect of stimulus interest. *bulletin Psychonomic Soc* 1986;24:437-438
677. -Provine RR Faces as releasers of contagious yawning: on approach to face detection using normal human subjects. *Bulletin Psychonomic Soc* 1989;27:211-214
678. -Provine RR Yawning as a stereotyped action pattern and releasing stimulus *Ethology.* 1986;72:109-122
679. -Provine RR, Hamernik HB, Curchack BB Yawning : relation to sleeping and stretching in humans. *Ethology* 1987;76:152-160
680. -Provine RR Yawns, laughs, smiles, tickles, and talking: Naturalistic and laboratory studies of facial action and social communication. *The psychology of facial expression.* 1997. In Russell and Fernandez-Dols (Eds.) Cambridge Univ. Press: Cambridge.
681. -Provine RR Yawning and simulation science *Simulation* 1989; 193-194
682. -Provine RR Yawning *American Scientist* 2005;93(6):532-539
683. -Provine RR. Contagious behavior: An alternative approach to mirror-like phenomena. *Behav Brain Sci.* 2014;37(2):216-217
684. -Provine RR. Philosopher's disease and its antidote: Perspectives from prenatal behavior and contagious yawning and laughing. *Behav Brain Sci.* 2017;40:e403
685. -Qian XB et al Cocaine-induced brainstem seizures and behavior *Integr Physiol Behav Sci* 1992;27(2):117-129
686. -Quintela E, Castillo J, Munoz P, Pascual J. Premonitory and resolution symptoms in migraine: a prospective study in 100 unselected patients. *Cephalalgia.* 2006;26(9):1051-1060.
687. -Raafat RM, Chater N et al. Herding in humans *TICS* 2009;13(10):420-428
688. -Ramirez V, Ryan CP, Eldakar OT, Gallup AC. Manipulating neck temperature alters contagious yawning in humans. *Physiol Behav.* 2019;207:86-89
689. -Rancurel G, R Manai Traitement par crâniectomie des infarctus cérébraux sylviens étendus. *Sang Thrombose Vaisseaux.* 2000;12(1):12-8
690. -Rasa OA The causal factors and function of yawning in microspathodon *Chrysurus* (Pices : Pomacentridae) *Behaviour* 1971;39:39-57
691. -Redican WK Facial expressions in nonhuman primates *Primate Behavior: Developments in Field and Laboratory Research*, 1975;4:103-194 (Roseblum, L. A., Ed.) Academic Press, New York.
692. -Redican WK An evolutionary perspective on human facial displays. P. Ekman (Ed.) *Emotion in the human face* (2nd ed.). Cambridge Univ. Press: Cambridge. 1982
693. -Reddy RB, Krupenye C, MacLean EL, Hare B. No evidence for contagious yawning in lemurs. *Animal Cognition.* 2016;19(5):889-898
694. -Reilly K, Tsou E Bilateral chylothorax , a case report following episodes of stretching *JAMA* 1975;223(6):536-537

695. -Reissland N, Francis B, Mason J. Development of Fetal Yawn Compared with Non-Yawn Mouth Openings from 24–36 Weeks Gestation. *Plos One*. 2012;7(11):e50569
696. -Rigon A, Reis M, Takahashi R. Effects of Carbaryl on some Dopaminergic Behaviors in Rats. *Gen. Pharmac.* 1994;25(6):1263-1267
697. -Riley DE. Paroxysmal kinesigenic dystonia associated with a medullary lesion. *Mov Disord* 1996;11(6):738-40 & *Mov Disord*. 1997;12(5):819
698. -Ritter EK. Mouth gaping behavior in Caribbean reef sharks, *Carcharhinus perezi*. *Marine and Freshwater Behaviour and Physiology*. 2008;41(3):161-167
699. -Rizzolatti G, V Gallese Resonance behaviors and mirror neurons *Archives Italiennes de biologie* 1999;137:85-100
700. -Robe LB, Gromisch DS, Iosub S Symptoms of neonatal ethanol withdrawal. *Curr Alcohol* 1981;8:485-93
701. -Robertson MM, Stern JS Gilles de la Tourette syndrome: symptomatic treatment based on evidence. *Eur Child Adolesc Psychiatry* 2000;9 (Suppl 1):160-75
702. -Robins C et al Some aspects of the behavior of the blennioid fish *Chaenopsis ocellata* Poey *Proceedings of the zoological society of London* 1959;44:77-84
703. -Rodriguez-Sierra J Testosterone potentiation of the effectiveness of ACTH on the induction of the stretch-yawning syndrome in male Guinea Pigs *Hormones and Behavior* 1981;15:77-85
704. -Rollinson RD, Gilligan BS Postanoxic action myoclonus (Lance-Adams syndrome) responding to valproate *Arch Neurol* 1979;36(1):44-45
705. -Rollinson RD et al Drug-induced yawning successfully treated with pimozide *Arch Neurol* 1979;36:253
706. -Romero T, Konno A, Hasegawa T. Familiarity Bias and Physiological Responses in Contagious Yawning by Dogs Support Link to Empathy. *PLoS ONE* 2013;8(8):e71365
707. -Romero T, Ito M, Saito A, Hasegawa T. Social modulation of contagious yawning in wolves. *PLoS One*. 2014;9(8):e105963.
708. -Roncero C, Mezzatesta-Gava M, Grau-López L, Daigre C. Yawning as a dose-dependent side effect of treatment with escitalopram. *Neurologia (spanish)* 2012
709. -Rossman ZT, Hart BL, Brian J, Greco BJ, Young D, Padfield C, Weidner L, Gates J, Hart L. Yawning Occurs in Elephants. *Front. Vet. Sci.*, 28 February 2017
710. -Rossman ZT, Hart BL, Greco BJ, Young D, Padfield C, Weidner L, Gates J, Hart LA. When Yawning Occurs in Elephants. *Front Vet Sci*. 2017;4:22.
711. Rossman ZT, Padfield C, Young D, Hart BL, Hart LA. Contagious Yawning in African Elephants (*Loxodonta africana*): Responses to Other Elephants and Familiar Humans. *Front. Vet. Sci.*, 08 May 2020
712. -Rothenberg J. The Significance of Repetitive Yawning in the Emergency Patient. A Warning of Imminent Death or Permanent Disability. *American J of Emergency Medicine* 2020
713. -Rundle BK, Caughn VR, Stanford MS. Contagious Yawning and Psychopathy. *Personality and individual Differences* 2015;86:333-37.
714. -Rüthrich HL, Grecksch G, Matthies H Influence of modified casomorphins on yawning behavior of rats. *Peptides* 1992;13(1):69-72.
715. -Sachs B, Akasofu K, et al. Effects of Copulation on Apomorphine-Induced Erection in Rats. *Pharmacol Biochem Behav*. 1994;48(2):423-428
716. -Saghafi MM, Pregelj P, Zivin M. Donepezil Inhibits Diisopropylfluorophosphate-Induced Seizures and Up-regulation of Synaptotagmin 4 mRNA. *Folia Biol (Praga)*. 2010;56(60):256-262
717. -Sagiuchi T, Tachibana S et al. Lhermitte sign during yawning associated with congenital partial aplasia of the posterior arch of the atlas *Am J Neuroradiol* 2006;27:258-260
718. -Sakai K, Takahashi Y Driving and subsidiary behavior of taxi drivers working alternate-day shifts *Hum Ergol (Tokyo)* 1975;4(2):115-27
719. -Salamone JD, Lalies MD, Channell SL, Iversen SD. Behavioural and pharmacological characterization of the mouth movements induced by muscarinic agonists in the rat. *Psychopharmacology (Berl)*. 1986;88(4):467-71.
720. -Salmon A Le bâillement physiologique et pathologique *Press Med* 1948;56:739-740
721. -Sandyk R Excessive yawning and progressive supranuclear palsy *Int J Neurosci* 1987;34(1-2):123-124
722. -Sandyk R The biological significance of yawning elicited by application of electromagnetic fields in multiple sclerosis. *International J of neurosciences* 1997;89(1):53-60
723. -Sandyk R Yawning and stretching induced by transcranial application of AC pulsed electromagnetic fields in Parkinson's disease. *Int J Neurosciences* 1999;97(1-2):139-145
724. -Sandyk R Cholinergic mechanisms in Gilles de la Tourette's syndrome *Int J Neurosci* 1995;81(1-2):95-100
725. -Sandyk R Effects of picotesla flux electromagnetic fields on dopaminergic transmission in Tourette's syndrome. *Int J Neurosci* 1996; 84(1-4):187-94
726. -Sanna F, Succu S, Melis MR, Argiolas A. Dopamine agonist-induced penile erection and yawning:

- Differential role of D(2)-like receptor subtypes and correlation with nitric oxide production in the paraventricular nucleus of the hypothalamus of male rats. *Behav Brain Res* 2012;230:355-364
727. -Sanna F, Argiolas A, Melis MR. Oxytocin-induced yawning: Sites of action in the brain and interaction with mesolimbic/mesocortical and incertohypothalamic dopaminergic neurons in male rats. *Horm Behav.* 2012;62(4):505-514
728. Sanna F, Melis MR, Angioni L, Argiolas A. Clavulanic acid induces penile erection and yawning in male rats: Comparison with apomorphine. *Pharmacol Biochem Behav.* 2013;103(4):750-755
729. -Sarnecki J Content and Contagion in Yawning *Philosophical Psychol* 2008;21(6):721-737
730. -Sato F et al. Suppressive effects of chronic hyperprolactinemia on penile erection and yawning following administration of apomorphine to pituitary-transplanted rats *Journal of Anthology* 1997;18(1):21-25
731. -Sato M, Kanenishi K, Hanaoka U, Noguchi J, Marumo G, Hata T. 4D ultrasound study of fetal facial expressions at 20-24weeks of gestation. *International Journal of Gynecology and Obstetrics* 2014;126:275-279
732. -Sato-Suzuki I, Kita I, Oguri M, Arita H Stereotyped yawning responses induced by electrical and chemical stimulation of paraventricular nucleus of the rat *Journal of Neurophysiology*, 1998;80(5):2765-2775
733. -Sato-Suzuki I, I Kita, Seki Y, M Oguri, H Arita Cortical arousal induced by microinjection of orexins into the paraventricular nucleus of the rat *Behavioural Brain Research* 2002;128:169-177
734. -Sauer F, Sauer E Yawning and other maintenance activities in the South African Ostrich *The Auk* October 1967;84:571-587
735. -Saura H, Beppu T, Matsuura H, Asahi S, Uesugi N, Sasaki M, Ogasawara K. Intractable yawning associated with mature teratoma of the supramedial cerebellum. *J Neurosurg.* 2014;121(2):387-9.
736. -Scheel-Krüger J The syndrome of sedation and yawning behaviour in the rat is dependent on postsynaptic dopamine d-2 receptors *J Psychopharmacol* 1986;89(4):S32
737. -Shilkret H Psychogenic sneezing and yawning. *Psychosom Medicine* 1949;11(2):127-128
738. -Schiller F Yawning ? *Journal of the History of the Neurosciences* 2002;11(4): 392-401
739. -Schino G, Aureli F Do men yawn more then women ? *Ethol. sociobiol.* 1989;10:375-378
740. -Schoonman GG, Evers DJ, Terwindt GM, van Dijk JG, Ferrari MD. The prevalence of premonitory symptoms in migraine: a questionnaire study in 461 patients. *Cephalalgia.* 2006;26(10):1209-1213
741. -Schniter E The evolution of yawning : why do we yawn and why is it contagious ? these 2001
742. -Schroth G, Klose U Cerebrospinal fluid flow; Physiology of respiration-related pulsations. *Neuroradiology* 1992;35(1):10-5
743. -Schurmann M, Hari R et al Yearning to yawn: the neural basis of contagious yawning *NeuroImage* 2005;24:1260-1264
744. -Sejnowski TJ and Destexhe A Why do we sleep ? *Brain Research* 2000;886(1):208-223
745. -Seki Y, Y Nakatani, et al Light induces cortical activation and yawning in rat *Behav Brain Res* 2003;140(1-2):65-73
746. -Seki Y, Sato-Suzuki I, et al Yawning/cortical activation induced by microinjection of histamine into the paraventricular nucleus of the rat. *Behav Brain Res.* 2002;134(1-2):75-82.
747. -Selbach C., Selbach H. Das Rekel-Syndrom als Wirkungsfolge eines biologischen Regelsystems. *Monatschr.f. Psychiat .u. Neurol* 1953;125:671-682.
748. -Senju A, Maeda M, Kikuchi Y, Hasegawa T, Tojo Y, Osanai H Absence of contagious yawning in children with autism spectrum disorder. *Biology Letters* 2007;3:706-708
749. -Senju A, Kikuchi Y, Akechi H et al. Does eye contact induce contagious yawning in children with autism spectrum disorder? *Journal of Autism and Developmental Disorders* 2009;39(11):1598-1602
750. -Sepulveda W, Mangiamarchi M Fetal yawning. *Ultrasound Obstet Gynecol* 1995;5(1):57-59
751. -Serafine KM, Bentley TA, Kilborn DJ, Koek W, France CP. Drinking sucrose or saccharin enhances sensitivity of rats to quinpirole-induced yawning. *European Journal of Pharmacology* 2015;764:529-536.
752. -Serafine KM, Rice K, France CP. Directly observable behavioral effects of lorcaserin in rats. *J Pharmacol Exp Ther.* 2015
753. -Serra G, Collu M, Serra A, Gessa GL Estrogens antagonize apomorphine-induced yawning in rats *Europ J Pharmacol* 1984;104:383-386
754. -Serra G, Collu M, Gessa GL Dopamine receptors mediating yawning are they autoreceptors *Europ J Pharmacology* 1986;120:187-192
755. -Serra G et al Hypophysectomy prevents ACTH-induced yawning and penile erection in rats *Pharmacology Biochemistry & Behavior* 1987;26:277-279
756. -Serra G , Collu M and Gessa GL Yawning is elicited by D2 dopamine agonists but is blocked by D1 antagonist *Psychopharmacology* 1987;91:330-337
757. -Serra G, Gessa GL Hypophysectomy prevents yawning and penile erection but not hypomotility induced by apomorphine *Pharmacology Biochemistry & Behavior* 1983;19:917-919
758. -Serra G et al Cycloheximide prevents apomorphine induced yawning, penile erection and genital



- grooming in rats *European Journal of Pharmacology* 1983;86:279-282
759. -Sevak RJ, Koek W, Galli A, France CP Insulin replacement restores the behavioral effects of quinpirole and raclopride in streptozotocin-treated rats. *J Pharmacol Exp Ther.* 2007;320(3):1216-1223
  760. -Sevak RJ, Koek W, Owens WA et al. Feeding conditions differentially affect the neurochemical and behavioral effects of dopaminergic drugs in male rats. *Eur J Pharmacol.* 2008;592(1-3):109-115
  761. -Shader R, D Greenblatt Yawning and anxiety modulation *J of Clin Psychopharmacol* 1985;5:1
  762. -Shader R, D Greenblatt Yawning, a postscript and preliminary thoughts about sighing *J of Clin Psychopharmacol* 1987;7:3
  763. -Shalini A, Sreedharan S. A Complex, Contagious, Evolutionary Habit. *Ann Acad Med Singapore.* 2006;35(6):433-4.
  764. -Sharifzadeh M, Firooz EK, Abdollahi M Effects of different periods of lithium pretreatment and aminoglycoside antibiotics on apomorphine-induced yawning in rats *Pharmacol Toxicol* 2000;87(2):84-8
  765. -Sharifzadeh M et al. Alterations of physostigmine-induced yawning by chronic lithium administration in rats *Pharmacol Toxicol* 1997;81(4):159-163
  766. -Sharpe LG, Swanson LW Drinking induced by injections of angiotensin into forebrain and mid-brain sites of the monkey. 1974;239:595-622
  767. -Sherer DM, Smith SA, Abramowicz JS Fetal yawning in utero at 20 weeks gestation. *J Ultrasound Med* 1991;10(2):68
  768. -Shin-Ei Y A case of parkinsonism with yawning seizure *The Sapporo Medical J* 1954;6(5):312-325
  769. -Shoup-Knox ML, Gallup ac and al. Yawning and stretching predict brain temperature changes in rats: support for the thermoregulatory hypothesis. *Evolutionary neuroscience.* 2010;2(9):article 108:5p
  770. -Sicard JA et Paraf A Bâillements au cours de l'encéphalite épidémique *Bulletins et mémoires de la Société médicale des hôpitaux de Paris.* 1921;45:232
  771. -Siegal S, Twiest M, Friedell A, Bhangoo K Why the yawn *New England Journal of medicine* 1974:1028 / 1974:1439
  772. -Silva K, Bessa J, de Sousa L. Auditory contagious yawning in domestic dogs (*Canis familiaris*): first evidence for social modulation. *Animal Cognition* 2012;15(4):721-724
  773. -Silva K, Bessa J, de Sousa L. Familiarity-connected or stress-biased contagious yawning in domestic dogs (*canis familiaris*)? some additional data . *Anim Cogn.* 2013;16(6):1007-1009
  774. -Simon P, B Guardiola et al. 5-HT1A receptor agonists prevent in rats the yawning and penile erections induced by direct dopamine agonists *Psychopharmacology (Berl)* 1992;108(1-2):47-50
  775. -Simonds AK Why do people yawn ? *Student BMJ* 1998;6:191
  776. -Singer OC, Humpich MC, et al. Yawning in acute anterior circulation stroke. *J Neurol Neurosurg Psychiatry.* 2007;78(11):1253-1254.
  777. -Skorzewska A, Tesfaye Y , Krishnan B, Schwartz G, Thavundayil J, Lal S Effect of scopolamine on spontaneous yawning in men. *Neuropsychobiology* 1993;27(1)17-20
  778. -Smith E.O. Yawning: An Evolutionary Perspective *Human evolution* 1999;14(3)191-198
  779. -Smith HP, Nichols DE, et al. Locomotor inhibition, yawning and vacuous chewing induced by a novel dopamine D2 post-synaptic receptor agonist *EurJ Pharmacology* 1997;323:27-36
  780. -Sommet A, Desplas M, Lapeyre-Mestre M, Montastruc JL. Drug-induced yawning: A review of the french pharmacovigilance database *Drug Saf.* 2007;30(4):327-331
  781. -Spahlinger S, Niessen A, Rauer S, Krämer S, Reinhard M. The Big Yawning: Pathological Yawning as a Symptom of Neuromyelitis Optica *Spectrum Disorders. Case Reports in Neurological Medicine* 2019
  782. -Specchio N, Carotenuto A et al. Ictal yawning in a patient with drug-resistant focal epilepsy: Video/EEG documentation and review of literature reports. *Epilepsy Behav* 2011;22(3):602-605
  783. -Spina, R Longoni, A Mulas, G di Chiara SKF 38393 potentiates yawning induced by LY 171555: further evidence against the autoreceptor hypothesis of yawning *Psychopharmacology* 1989;98:567-568
  784. -Stahle L, Ungerstedt U Discrepancy in the time course of EMD 23448 induced yawning and reduction of extracellular dopamine *Psychopharmacology* 1989;97:275-276
  785. -Stahle L Do autoreceptors mediate dopamine agonist-induced yawning and suppression of exploration ? a critical review. *Psychopharmacology* 1992;106:1-13
  786. -Stahle L, Ungerstedt U Assessment of dopamine autoreceptor agonist properties of apomorphine, (+)3ppp and (-)3ppp by recording of yawning behaviour in rats *Europ J Pharmacol* 1984;98:307-310
  787. -Stahle L, Ungerstedt U Yawning and suppression of exploration in amphetamine-treated rats, incompatibility with the autoreceptor hypothesis *Psychopharmacology* 1989;97:553-560
  788. -Stahle L, Ungerstedt U Yawning and suppression of exploration induced by dopamine agonists: no relation to extracellular striatal levels of dopamine *Pharmacol Biochem Behav* 1990;35:201-209
  789. -Stancampiano R, Melis MR, Argiolas A Penile erection and yawning induced by 5-HT1c receptor agonists in male rats: relationship with dopaminergic and oxytocinergic transmission *European J Pharmacology* 1994;261:149-155
  790. -Stern E, Silbersweig DA, Chee KY, Holmes A, Robertson MM, Trimble M, Frith CD, Frackowiak

- RS, Dolan RJ A functional neuroanatomy of tics in Tourette syndrome. *Arch Gen Psychiatry* 2000;57;(8):741-8
791. -Stoessl AJ Effects of ageing on the behavioural responses to dopamine agonists: decreased yawning and locomotion, but increased stereotypy *Brain Research* 1989;95:20-30
  792. -Stoessl AJ, Dourish CT, Iversen SD The NK-3 tachykinin agonist senktide elicits yawning and chewing mouth movements following subcutaneous administration in the rat. Evidence for cholinergic mediation. *Psychopharmacology (Berl)*. 1988;95(4):502-506
  793. -Stoessl AJ, Dourish CT, Iversen SD Apomorphine-induced yawning in rats is abolished by bilateral 6-hydroxydopamine lesions of the substantia nigra *Psychopharmacol*; 1987;93:336-342
  794. -Stracke J, Bert B, Fink H, Böhner J. Assessment of Stress in Laboratory Beagle Dogs Constrained by a Pavlov Sling. *Altex*. 2011;28(4):317-325
  795. -Succu S, Spano MS, Melis MR, Argiolas A. Different effects of omega-conotoxin on penile erection, yawning and paraventricular nitric oxide in male rats. *Eur J Pharmacol*. 1998;359(1):19-26
  796. -Sulkava R, Kovanen J. Locked-in syndrome with rapid recovery: a manifestation of basilar artery migraine? *Headache* 1983;23:238-239
  797. -Sutcliffe JG, de Lecea L. The hypocretins : setting the arousal threshold, *Nature Neuroscience* 2002; 3; 5; 339-349
  798. -Szechtman H et al Sensitization and tolerance to apomorphine in men: yawning, growth hormone, nausea, and hyperthermia *Psychiatry Research* 1988, 23, 245-255
  799. -Szechtman H Timing of yawns induced by a small dose of apomorphine and its alteration by naloxone *Prog Neuro-Psychopharmacol & Biol Psychiat* 1984;8:743-746
  800. -Tamaddonfard E et al Central interaction between physostigmine and histamine during yawning in rats. *Pharmacological Reports* 2008;60:896-90
  801. Tan J, Ariely D, Hare B. Bonobos respond prosocially toward members of other groups. *Scientific Reports* 2017;7:n° 14733
  802. -Tang AH, Himes CS Apomorphine produced more yawning in Sprague-Dawley rats than in F344 rats: a pharmacological study *Eur J Pharmacol* 1995;284(1-2):13-18
  803. -Taskapilioglu O, Akkaya C, Sarandol A, Kirli S. Pathological yawning in a patient with anxiety and chronic disease anaemia *J Psychopharmacol* 2009;23(2):211-213
  804. -Taylor JR, Elsworth JD, Roth RH, Sladek JR Jr, Collier TJ, Redmond DE Jr. Grafting of fetal substantia nigra to striatum reverses behavioral deficits induced by MPTP in primates: a comparison with other types of grafts as controls. *Exp Brain Res*. 1991;85(2):335-348.
  805. -Teive H, Becker N, Munhoz RP. Parakinesia Brachialis Oscitans due Brainstem Stroke. Report of two cases *Parkinson Rel Dis* 2009;15(Supp 2):S154
  806. -Teive HAG, Munhoz RP, Camargo CHF, Walusinski O. Yawning in neurology: a review. *Arq Neuropsiquiatr*. 2018;176(7):473-480
  807. -Tefaye Y, Lal S Hazard of yawning *Canadian Med Assoc J* 1990;142(1):15 et 1991;145(12):1560
  808. -Thacker SK, Perna MK, Ward JJ, Schaefer TL. The effects of adulthood olanzapine treatment on cognitive performance and neurotrophic factor content in male and female rats neonatally treated with quinpirole. et al. *Eur J Neurosci*. 2006;24(7):2075-2083
  809. -Thompson SBN. The dawn of the yawn: is yawning a warning? linking neurological disorders. *Medical Hypotheses* 2010;75(6):630-633
  810. -Thompson SBN. Born to yawn? Cortisol linked to yawning: A new hypothesis. *Medical Hypotheses* 2011;77(5):861-862
  811. -Thompson SB. Is Yawning A Warning, Neurologically? 12-2011. <http://www.webmedcentral.com>
  812. -Thompson SB, Zisa L. Yawning: Thompson Cortisol Hypothesis Discussed. 12-2011. <http://www.webmedcentral.com>
  813. -Thompson SB, Bishop Ph. Born to Yawn? Understanding Yawning as a Warning of the Rise in Cortisol Levels: Randomized Trial. *I-jmr*. 2012;1(2):e4
  814. -Thompson SB. Yawning, fatigue, and cortisol: Expanding the Thompson Cortisol Hypothesis. *Med Hypotheses*. 2014 Oct;83(4):494-6.
  815. -Thompson SB. Pathways to yawning: making sense of the Thompson Cortisol Hypothesis. *Medical Research Archives* 2015(3)
  816. -Thompson SB, Simonsen M. Yawning As a New Potential Diagnostic Marker for Neurological Diseases. *Journal of Neurology and Neuroscience*. 2015;6(3):22
  817. -Thompson SBN, Coleman A, Williams N. Yawning and cortisol levels in multiple sclerosis: Potential new diagnostic tool. *Mult Scler Relat Disord*. 2018;23:51-55.
  818. -Thompson SBN, Sava D. Elevation of Cortisol Levels by Ingesting Liquorice. *Clinical Research in Neurology* 2018;1(1):1-4.
  819. -Thompson SBN. Yawning as a Potential Diagnostic Indicator for Underlying Neurological Disorders. *Archives of Neurology & Neurological Disorders* 2002;5(1)
  820. -Thomson HC Associated movements in hemiplegia : their origin and physiological significance *Brain* 1903;26:515-523

821. -Thorn L, Ashmeade TE, Storey VJ, Routledge C, Reavill C. Evidence to suggest that agonist modulation of hyperlocomotion is via post-synaptic dopamine D2 or D3 receptors. *Neuropharmacology*. 1997;36(6):787-792
822. -Tizabi Y et al Nicotine blocks quinpirole-induced behavior in rats: psychiatric implications *Psychopharmacology* 1999;145:433-441
823. -Titze I Regulating glottal airflow in phonation: application of the maximum power transfer theorem to a low dimensional phonation model *J Acoust Soc Am* 2002;111(1):367-376
824. -Topper R. et al. Involuntary stretching during yawning in patients with pyramidal tract lesions: further evidence for the existence of an independent emotional motor system *European J Neurology* 2003;10(5):495-499
825. -Tran Y, Craig A, Wijesuriya N, Nguyen H. Improving classification rates for use in fatigue countermeasure devices using brain activity. *Conf Proc IEEE Eng Med Biol Soc*. 2010;2010:4460-4463
826. -Trautmann René Frédéric Le bâillement Thèse Bordeaux, 1901-02, 86 pages N°40
827. -Trica TC Bioelectric-mediated predation by Swell Sharks, *Cephaloscyllium Ventriosum*. *Copeia*.1982;4:948-952
828. -Troisi A, Aureli F, Schino G, Rinaldi F, De Angeli N, the influence of age, sex, rank on yawning behavior in two species of macaques (*Mfascicularis*, *Mfuscata*), *Ethology*, 1990;86:303-310
829. -Troisi A. Displacement Activities as a Behavioral Measure of Stress in Nonhuman Primates and Human Subjects. *Stress* 2002;5(1):47-54
830. -Trulson ME, Brandstetter JW, Crisp T, Jacobs BL. Behavioral effects of quipazine in the cat. *Eur J Pharmacol*. 1982;78(3):295-305
831. -Tsou CH, Kao T, Fan KT, et al. Clinical assessment of propofol-induced yawning with heart rate variability: a pilot study. *J Clin Anesth*. 2008;20(1):25-29
832. -Tsurumi S, Kanazawa S, Yamaguchi MK. Infant brain activity in response to yawning using functional near-infrared spectroscopy. *Sci Rep*. 2019 Jul 23;9(1):10631
833. -Tufik S et al Effects of stress on drug induced yawning *Physiology & behavior* 1995;58(1):1881-1884
834. -Tufik S Does REM sleep deprivation induce subsensitivity of presynaptic dopamine or postsynaptic acetylcholine receptors in the rat brain? *European Journal of Pharmacology* 1987;140:215-219
835. -Ugarte A, Eguibar JR, Cortés MD, et al. Comparative analysis of maternal care in the high-yawning (HY) and low-yawning (LY) sublines from sprague-dawley rats. *Dev Psychobiol*. 2011;53(2):105-117
836. -Ugboko VI, Oginni FO, Ajike SO, Olasoji HO, Adebayo ET. A survey of temporomandibular joint dislocation: aetiology, demographics, risk factors and management in 96 Nigerian cases. *Int J Oral Maxillofac Surg*. 2005;34(5):499-502
837. -Unnikrishnan KP, Sinha PK, Rao S. Mandibular dislocation from yawning during induction of anesthesia. *Can J Anaesth*. 2006;53(11):1164-5.
838. -Urba-Holmgren R, Trucios N, Holmgren B, Eguibar JR, Gavito A, Cruz G, Santos A Genotypic dependency of spontaneous yawning frequency in the rat *Behav Brain Res* 1990;40(1):29-35
839. -Urba-Holmgren R, Santos A, Holmgren B, Eguibar JR Two inbred rat sublines that differ in spontaneous yawning behavior also differ in their responses to cholinergic and dopaminergic drugs *Behav Brain Res* 1993;56(2):155-159
840. -Urba-Holmgren R, Holmgren B, Rodriguez R, Gonzalez RM Serotonergic modulation of yawning *Pharmacol Biochem Behav* 1979;11(3):371-372
841. -Urba-Holmgren R, Gonzalez RM, Holmgren B Is yawning a cholinergic response? *Nature* 1977; 267(5608): 261-2 et commentaires Cholinergic link in yawning *A Cowan Nature* 1978;271:187-188
842. -Urba-Holmgren R, Holmgren B, Leon BA, Ugarte A Age-dependent changes in serotonergic modulation of yawning in the rat. *Pharmacol Biochem Behav* 1992;43(2):483-486
843. -Ushijima I, Mizuki Y, Yamada M Multifocal sites of action involved in dopaminergic-cholinergic neuronal interactions in yawning *Psychopharmacology (Berl)* 1988;95:34-37
844. -Ushijima I et al, Muscarinic and nicotinic effects on yawning and tongue protruding in the rat *Pharmacol Biochem Behavior* 1984;21:297-300
845. -Ushijima et al modification of apomorphine, physostigmine and pilocarpine induced yawning after long term treatment with neuroleptic or cholinergic agents *Arch Int Pharmacodyn* 1984;271:180-188
846. -Ushijima I et al Characteristics of yawning behavior induced by apomorphine, physostigmine and pilocarpine *Arch Int Pharmacodyn* 1985;273:196-201
847. -Ushijima, I., Y. Mizuki, et al. Behavioral effects of dilazep on cholinergic, dopaminergic, and purinergic systems in the rat. *Pharmacol Biochem Behav* 1992;43(3):673-676.
848. -Ushijima I, Mizuki Y, et al Effects of age on behavioral responses to dopamine agonists in the rat. *Eur J Pharmacol*. 1987;138(1):101-106.
849. -Ushijima I, Mizuki Y, Yamada M. The mode of action of bromocriptine following pretreatment with reserpine and alpha-methyl-p-tyrosine in rats. *Psychopharmacology (Berl)*. 1988;95(1):29-33.
850. -Usui S, Senju A, Kikuchi Y, Akechi H, Tojo Y, Osanai H, Hasegawa T. Presence of Contagious Yawning in Children with Autism Spectrum Disorder. *Autism Research and Treatment*. Vol 2013

Article ID 971686

851. -Valdés-Cruz A. et al Chronic stimulation of the cat vagus nerve Effect on sleep and behavior *Progress in Neuro-Psychopharmacology & Biological Psychiatry* 2002;26:13-118
852. -Valdivieso-Cortadella S, Bernardi-Gómez C, Aureli F, Llorente M, Amici F. Yawning and scratching contagion in wild spider monkeys (*Ateles geoffroyi*). *Sci Rep.* 2023;13(1):8367
853. -van Berlo E, Díaz-Loyo AP, Juárez-Mora OE, Kret ME, Massen JJM. Experimental evidence for yawn contagion in orangutans (*Pongo pygmaeus*). *Sci Rep.* 2020;10(1):22251.
854. -van den Buuse M. Differential effects of quinolorane and pergolide on behaviour, blood pressure, and body temperature of spontaneously hypertensive rats and Wistar-Kyoto rats. *Pharmacol Biochem Behav.* 1995;50(3):389-397.
855. Van Erp AM, Kruk MR, et al. Grooming induced by intrahypothalamic injection of ACTH in the rat: comparison with grooming induced by intrahypothalamic electrical stimulation and i.c.v. injection of ACTH. *Brain Res.* 1991;538(2):203-210
856. -Van Sweden B, Vanderhoven L, van Erp MG Excessive yawning *Acta Neurol Belg* 1994;94(3):150-151
857. -Van Woerden EE et al Fetal mouth movements during behavioral states 1F and 2FEur *J Obstet Gynecol Reprod Biol* 1988;29:97-105
858. -Veenema HC, Spruijt BM, et al Aging, dominance history, and social behavior in Java-monkeys (*Macaca fascicularis*). *Neurobiol Aging.* 1997;18(5):509-515
859. -Verdure-poussin A, Weber J Dossier troubles du sommeil, *Revue du Praticien Médecine Générale* 2001;15(550):787-1801
860. -Viblanç Va et al. It costs to be clean and fit: energetics of comfort behavior in breeding-fasting penguins. *PLoS One*2011;6(7):e21110
861. -Vibhangini S. Wasade, Indranil Balki, Susan M. Bowyer, Shaila Gaddam et al. Controllable yawning expressed as focal seizures of frontal lobe epilepsy. *Epilepsy & Behavior Case Reports* 2016;6:61-63.
862. -Vick SH, Paukner A Variation and context of yawns in captive chimpanzees *Am J Primato* 2009;71:1-8
863. -Villablanca J, Marcus R Sleep-wakefulness, EEG and behavioral studies of chronic cats without neocortex and striatum: the "diencephalic" cat *Arch Ital Biol* 1972;110(3):348-382
864. -Voigt CC et al Storage and display of odour by male *Saccolaryx bilineata* *Behav Ecol Sociobiol* 1999;47:29-40
865. -Von Armin Heymer, et al On the ethology of the mediterranean fish (*Blennius rouxi* Cocco 1833) *Zeitschrift für Tierpsychology* 1976;41(2)121-141
866. -Walshe FMR On certain tonic or postural reflexes in hemiplegia with special reference to the so called "associated movements" *Brain*, 1923;46:1-37
867. -Walusinski O Pourquoi bâillons-nous ? *La Revue du Praticien médecine générale* 2000;14(487):259-263
868. -Walusinski O le bâillement du réflexe à la pathologie AIM actualités innovations médecine 2002;(80):34-36
869. -Walusinski O, Deputte BL Le bâillement : de l'éthologie à la médecine clinique *Revue du Praticien* 2002 52:18
870. -Walusinski O, Deputte BL Le bâillement : phylogénèse, éthologie, nosogénie *La Revue Neurologique (Paris)* 2004;160(11):1011-1021
871. -Walusinski O, Kurjak A, Andonotopo W, Azumendi G Fetal yawning assessed by 3D and 4D sonography *The Ultrasound Review of Obstetrics & Gynecology* 2005;(3):210-217
872. -Walusinski O, Quoirin E, Neau JP. La parakinésie brachiale oscitante. *Rev Neurol (Paris)*. 2005;161(2):193-200.
873. -Walusinski O. Yawning: unsuspected avenue for a better understanding of arousal and interoception. *Med Hypotheses.* 2006;67(1):6-10
874. -Walusinski O Yawning : a behavior testifying arousal reinforcement during brainstem stroke. response *jnp* 2005 pdf
875. -Walusinski O, Bogoslavsky J, Neau JP. Hand up ! yawn and raise your arm. *The International Journal of Stroke* 2010;5(1):21-27
876. -Walusinski O. Yawning in diseases *European Neurology* 2009;62(3):180-187
877. -Walusinski O. Associated Diseases. *Front Neurol Neurosci* 2010;28:140-155
878. -Walusinski O Yawning in the history of psychiatry. *History of Psychiatry* 2021;32(4):449-461.
879. --Walusinski O. Contagiosité des comportements humains : la répliation du bâillement peut-elle nous éclairer ? *Annales Médico-psychologiques* 2021;179(9):830-834.
880. -Watling CN, Armstrong KA, Radunb I. Examining signs of driver sleepiness, usage of sleepiness countermeasures and the associations with sleepy driving behaviours and individual factors. *Accident Analysis and Prevention.* 2015;85:22–29
881. -Weila RS et al. Air swallowing as a tic *Journal of Psychosomatic Research* 2008;65:497-500
882. -Weinberg WA, Brumback RA Primary disorder of vigilance: a novel explanation of inattentiveness,

- daydreaming, boredom, restlessness, and sleepiness. *J Pediatr* 1990; 116; 5; 720-5 Comment in: *J Pediatr*. 1991;118;(3):489-90
883. -Weller MP, Yawning, *Lancet* 23/4/1988;(859):950 (très brève lettre réponse à Wimalaratana)
  884. -Wernsmann B, Pape HC, Speckmann EJ, Gorji A. Effect of cortical spreading depression on synaptic transmission of rat hippocampal tissues. *Eur J Neurosci*. 2006;23(5):1103-1110
  885. -Whiteley AM, Warrington EK Prosopagnosia : a clinical, psychological and anatomical study in three patients. *Journal of neurological & neurosurgical psychiatry*, 1977;67:394-430
  886. -Whyte S, P Darveniza A Review of 20 Cases of Spastic Dysphonia *Clin Exp Neurol* 1989;26:177-181
  887. -Wicks P Excessive yawning is common in the bulbar-onset form of ALS *Acta Psychiatr Scand* 2007:1
  888. -Wielosz M Yawning induced by apomorphine, physostigmine or pilocarpine is inhibited by electroconvulsiv shock *Acta Physiologica Hungaria* 1996;84(4):473-475
  889. -Wilkinson A et al. No evidence of contagious yawning in the red-footed tortoise. *Current Zoology* 2011;57(4):477-484
  890. -Williams DR The yawning reflex: An upper motor neuron sign in amyotrophic lateral sclerosis *Neurology* 2000;55(10):1592-1593
  891. -Wimalaratana HS, Capildeo R Is yawning a brainstem phenomenon ? *Lancet*, 6/2/1988,1(8580):300
  892. -Wind J le hoquet et le bâillement *Practica Oto Rhino Laryngologica* 1970;32:1
  893. -Winther B et al Radiopaque contrast dye in nasopharynx reaches the middle ear during swallowing and/or yawning *Acta Oto-Laryngologica* 2005;125:625-628
  894. -Wong KY, Ngan KC, Sin VC, Lau WH Sphenoidal sinus mucocoele and yawning after radiation treatment for nasopharyngeal carcinoma. *Clin Oncol (R Coll Radiol)* 1997;9(6):415-417
  895. -Wong R, Sagar S The treatment of persistent yawning with acupuncture. *Acupunct Med* 2000;18:124-126
  896. -Wood PL et al Increase of hippocampal acetylcholine turnover rate and the stretching-yawning syndrome elicited by alpha-MSH and ACTH *Life Sciences*1978;22:673-378
  897. -Woodbury R, B Abretj Influence of dying gasps, yawns and sighs on blood pressure and blood flow *Am J Physiol* 1944; 142:721-724
  898. -Wu CC, Chen JY, Tao PL, Chen YA, Yeh GC. Serotonin reuptake inhibitors attenuate morphine withdrawal syndrome in neonatal rats passively exposed to morphine. *Eur J Pharmacol*. 2005;512(1):37-42.
  899. -Wu YT, Chang ST, Chen LC, Li TY. Concurrence of Crossed Cerebellar Diaschisis and Parakinesia Brachialis Oscitans in a Patient with Hemorrhagic Stroke. *Case Rep Med*. 2013;2013:519808
  900. -Xiao Fan, Yanfeng Sun, et al. Gabor-based dynamic representation for human fatigue monitoring in facial image sequences *Pattern Recognition Letters* 2010;31:234-243
  901. -Xu JH, Ikeda Y, Komiyama S Bio-feedback and the yawning breath pattern in voice therapy: a clinical trial. *Auris Nasus Larynx* 1991;18(1):67-77
  902. -Yamada K, Furukawa T Direct evidence for involvement of dopaminergic inhibition and cholinergic activation in yawning *Psychopharmacology* 1980;67:39-43
  903. -Yamada K, Furukawa T The yawning elicited by alpha-melanocyte-stimulating hormone involves serotonergic -dopaminergic - cholinergic neuron link in rats *Naunyn-Schmiedeberg's Arch Pharmacol* 1981;316:155-160
  904. -Yamada K et al Involvement of septal and striatal dopamine D2 receptors in yawning behavior in rats *Psychopharmacology* 1986;90:9-13
  905. -Yamada K et al Possible involvement of differing classes of dopamine d2 receptors in yawning and stereotypy in rats *Psychopharmacology* 1990;100:141-144
  906. -Yamada K, Furukawa T Behavioral studies on central dopaminergic neurons. especially jumping, stretching, body shaking and yawning behavior *J Pharmacobio dynamics* 1980; 3; S16-S18
  907. -Yamada K, Matsumoto S, Nagashima M, Kumagai M, Matsuo N, Furukawa T Stimulatory effects of beta-adrenoceptor blockers on the yawning induced by dopaminergic and cholinergic agonists in rats. *Japanese J Pharmacology* 1987;43; supp53p
  908. -Yamada K, S Matsumoto, M Nagashima, K Shirakawa, T Furukawa Potentiation of yawning responses to the dopamine receptor agonists B-HT 920 and SND 919 by pindolol in the rat *J Neural Transm* 1990;79:19-24
  909. -Yamaguchi Y, Kobayashi H. Effects of apomorphine, physostigmine and vasoactive intestinal peptide on penile erection and yawning in diabetic rats. *Eur J Pharmacol*. 1994;254(1-2):91-96
  910. -Yan F, Dai SY, Akther N, Kuno A, Yanagihara T, Hata T. Four-dimensional sonographic assessment of fetal facial expression early in the third trimester. *Int J Gynaecol Obstet*. 2006;94(2):108-113
  911. -Yankovsky A, Andermann F, Dubeau F. Post-ictal forceful yawning: an autonomic symptom in a patient with nondominant hemisphere epilepsy. video-eeg presentation *Epilepsia* 2005;46:s8; 23-34
  912. -Yankovsky A, Andermann F, Dubeau F. Post-ictal forceful yawning in a patient with nondominant hemisphere epilepsy *Epileptic disord*. 2006;8(1):65-69

913. -Yap AU, Tan KB, Hoe JK, Yap RH, Jaffar J On-line computerized diagnosis of pain-related disability and psychological status of TMD patients: a pilot study. *J Oral Rehabil* 2001;28(1):78-87
914. -Yigiter AB, Kavak ZN. Normal standards of fetal behavior assessed by four-dimensional sonography. *J Matern Fetal Neonatal Med.* 2006;19(11):707-721
915. -Yonezawa T, Sato K, Uchida M, Matsuki N, Yamazaki A. Presence of contagious yawning in sheep. *Anim Sci J.* 2016;88(1):195-200
916. -Yoon JMD, Tennie C Contagious yawning: a reflection of empathy, mimicry, or contagion. *Anim Behav* 2010;79:e1-e3
917. -Zafar H Integrated jaw and neck function in man. Studies of mandibular and head-neck movements during jaw opening-closing tasks. *Arch Oral Biol* 2000;45(8):675-82.
918. -Zannella A, Norscia I, Stanyon R, Palagi E. Testing Yawning Hypotheses in Wild Populations of Two Strepsirrhine Species: *Propithecus Verreauxi* and *Lemur Catta*. *Am J Primatol.* 2015;77(11):1207-1215
919. - Zannella A, Stanyon R, Palagi E. Yawning and Social Styles: Different Functions in Tolerant and Despotic Macaques (*Macaca tonkeana* and *Macaca fuscata*). *J Comp Psychol.*2017;131(3):179-188
920. -Zarrindast MR, Poursoltan M Interactions of drugs acting on central dopamine receptors and cholinceptors on yawning responses in the rat induced by apomorphine, bromocriptine or physostigmine *Br J Pharmacol* 1989;96(4):843-848
921. -Zarrindast, MR, Jamshidzadeh A Inhibitory effect of morphine on yawning induced by cholinceptor and dopamine D2 receptor activation in rats *Br J Pharmacol* 1992;105(3):675-678
922. -Zarrindast MR, Toloui V, Hashemi B Effects of GABAergic drugs on physostigmine-induced yawning in rats; *Psychopharmacology (Berl)* 1995;122:297-300
923. -Zarrindast MR, Fazli-Tabai S, Semnani S, Fathollahi Y Influence of different adrenoceptor agonists and antagonists on physostigmine-induced yawning in rats. *Pharmacol Biochem Behav* 1999;62(1):1-5
924. -Zarrindast MR, M Ghazi-Khansari, et al Effects of lead exposure on licking and yawning behaviour in rats *Pharmacol toxicol* 1998;83:120-124
925. -Zarrindast MR et al Effects of adenosine agents on apomorphine-induced yawning in rats *Psychopharmacology* 1995;122:292-296
926. -Zarrindast MR et al Effects of adenosine receptor agonists and antagonists on physostigmine-induced yawning *Europ J Pharmacology* 1995;276:3-7
927. -Zarrindast MR et al The effect of electroconvulsive shock seizures on behaviour induced by dopaminergic agonists and on immobility in the Porsolt test *Europ Neuro Psychopharmacol* 2004;14(6):509-514
928. -Zarrindast M, K Nojoomi et al Nitric oxide agents and apomorphine induced rat behaviors *Pharmacology* 2004;71:169-173
929. -Zebian B, Hogg FR, Fu RZ, Sivakumaran R, Stapleton S. Yawning as a presenting symptom of Chiari malformation Type I: report of 2 cases. *J Neurosurg Pediatr.* 2015;15:612-4.
930. -Zilli I, Giganti F, Salzarulo P. Yawning in morning and evening types. *Physiol Behav* 2007;91(2-3):218-222
931. -Zilli I, Giganti F, Uga V. Yawning and subjective sleepiness in the elderly. *J Sleep Res* 2008;17:3003-308
932. Zorzetto FP, Braatz VL, Walusinski O, Teive HA. Parakinesia brachialis oscitans during thrombolytic therapy. *BMJ Case Rep.* 2013
933. -Zucker EL, Gerald, MS, Kaplan, JR Frequencies and contexts of gape yawn displays of free-ranging patas monkeys (*Erythrocybus patas.*) *American Journal of Primatology* 1998;45(2):215