



Nombres:

JORGE

Apellidos:

MPODOZIS MARÍN

Contacto (Opcional):

EPISTEMO@UCHILE.CL

Título Profesional o Grado Académico (incluya el año de obtención):

LICENCIADO EN CIENCIAS C/M EN BIOLOGÍA, UNIVERSIDAD DE CHILE 1984.

Estudios de Postgrado o Especialización (institución donde lo obtuvo y año de obtención):

DOCTOR EN CIENCIAS BIOLÓGICAS C/M EN FISIOLOGÍA Y NEUROBIOLOGÍA, UNIVERSIDAD DE CHILE 1991.

Actividad Actual e Institución en la cual trabaja:

PROFESOR TITULAR DE LA UNIVERSIDAD DE CHILE. DEPARTAMENTO DE BIOLOGÍA, FACULTAD DE CIENCIAS.

Reseña de su actividad laboral actual:

Área de Investigación: Fisiología Celular y Neurobiología.

Temas de Investigación e Interés: Anatomía y fisiología comparada del sistema visual en vertebrados. Estudio conceptual de la evolución orgánica. Fenómenos perceptuales y cognitivos, Biología teórica. Estamos interesados en expandir el conocimiento estructural y funcional del sistema visual de aves, con el propósito de establecer hipótesis sobre el origen y la historia del sistema visual entre los vertebrados amniotes. También, para poner de manifiesto mecanismos perceptuales visuales "originales", invisibles desde el punto de vista mamífero céntrico que domina la neurobiología actual.

Docencia: Neuroanatomía, Neuroetología, Evolución, Biología sistémico-histórica.

PUBLICACIONES INDEXADAS: (últimos 10 años).

Scopus

EXPORT DATE:04 Jan 2016

González-Cabrera, C., Garrido-Charad, F., Mpodozis, J., Bolam, J.P., Marín, G.J. Axon terminals from the nucleus isthmi pars parvocellularis control the ascending retinotectofugal output through direct synaptic contact with tectal ganglion cell dendrites

(2016) *Journal of Comparative Neurology*, 524 (2), pp. 362-379.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84949725380&partnerID=40&md5=716d28019d60c894376da25b4f3689b8)

[84949725380&partnerID=40&md5=716d28019d60c894376da25b4f3689b8](http://www.scopus.com/inward/record.url?eid=2-s2.0-84949725380&partnerID=40&md5=716d28019d60c894376da25b4f3689b8)

DOI: 10.1002/cne.23860

DOCUMENT TYPE: Article

Ossa-Fuentes, L., Mpodozis, J., Vargas, A.O.

Bird embryos uncover homology and evolution of the dinosaur ankle

(2015) *Nature Communications*, 6, art. no. 8902, .

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84946944987&partnerID=40&md5=5dc634c7282093b8aeb62cf046dc7a2e)

[84946944987&partnerID=40&md5=5dc634c7282093b8aeb62cf046dc7a2e](http://www.scopus.com/inward/record.url?eid=2-s2.0-84946944987&partnerID=40&md5=5dc634c7282093b8aeb62cf046dc7a2e)

DOI: 10.1038/ncomms9902

DOCUMENT TYPE: Article

Francisco Botelho, J., Smith-Paredes, D., Soto-Acuña, S., Mpodozis, J., Palma, V., Vargas, A.O.

Skeletal plasticity in response to embryonic muscular activity underlies the development and evolution of the perching digit of birds

(2015) *Scientific Reports*, 5, art. no. 9840, . Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84929379873&partnerID=40&md5=40d6c8e5f8e650297c053ca8da0dc658)

[84929379873&partnerID=40&md5=40d6c8e5f8e650297c053ca8da0dc658](http://www.scopus.com/inward/record.url?eid=2-s2.0-84929379873&partnerID=40&md5=40d6c8e5f8e650297c053ca8da0dc658)

DOI: 10.1038/srep09840

DOCUMENT TYPE: Article

Márquez, N., Martínez-Harms, J., Vásquez, R.A., Mpodozis, J.

Early olfactory environment influences social behaviour in adult octodon degus

(2015) *PLoS ONE*, 10 (2), art. no. e0118018, .

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84922949969&partnerID=40&md5=55ead0a0a9dc79248fad54df3da96ee2)

[84922949969&partnerID=40&md5=55ead0a0a9dc79248fad54df3da96ee2](http://www.scopus.com/inward/record.url?eid=2-s2.0-84922949969&partnerID=40&md5=55ead0a0a9dc79248fad54df3da96ee2)

DOI: 10.1371/journal.pone.0118018

DOCUMENT TYPE: Article

Ahumada-Galleguillos, P., Fernández, M., Marín, G.J., Letelier, J.C., Mpodozis, J. Anatomical organization of the visual dorsal ventricular ridge in the chick (*Gallus gallus*): Layers and columns in the avian pallium

(2015) *Journal of Comparative Neurology*, 523 (17), pp. 2618-2636. Cited 5 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84942824037&partnerID=40&md5=be5aabaa9ff1819582112ea3a0bf07ef)

[84942824037&partnerID=40&md5=be5aabaa9ff1819582112ea3a0bf07ef](http://www.scopus.com/inward/record.url?eid=2-s2.0-84942824037&partnerID=40&md5=be5aabaa9ff1819582112ea3a0bf07ef)

DOI: 10.1002/cne.23808

DOCUMENT TYPE: Article

Faunes, M., Botelho, J.F., Galleguillos, P.A., Mpodozis, J.

On the hodological criterion for homology

(2015) *Frontiers in Neuroscience*, 9 (JUN), art. no. 223, . Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84935045291&partnerID=40&md5=5d4fb37beaeec0ef21e699c21d48d43)

[84935045291&partnerID=40&md5=5d4fb37beaeec0ef21e699c21d48d43](http://www.scopus.com/inward/record.url?eid=2-s2.0-84935045291&partnerID=40&md5=5d4fb37beaeec0ef21e699c21d48d43)

DOI: 10.3389/fnins.2015.00223

DOCUMENT TYPE: Article

Vega-Zuniga, T., Mpodozis, J., Karten, H.J., Marín, G., Hain, S., Luksch, H.
Morphology, projection pattern, and neurochemical identity of Cajal's "centrifugal neurons": The cells of origin of the tectoventrogeniculate pathway in pigeon (*Columba livia*) and chicken (*Gallus gallus*)

(2014) *Journal of Comparative Neurology*, 522 (10), pp. 2377-2396. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84898687258&partnerID=40&md5=4263dc243eff2c6b9316025f57a104a6)

[84898687258&partnerID=40&md5=4263dc243eff2c6b9316025f57a104a6](http://www.scopus.com/inward/record.url?eid=2-s2.0-84898687258&partnerID=40&md5=4263dc243eff2c6b9316025f57a104a6)

DOI: 10.1002/cne.23539

DOCUMENT TYPE: Article

González-Gómez, P.L., Madrid-Lopez, N., Salazar, J.E., Suárez, R., Razeto-Barry, P., Mpodozis, J., Bozinovic, F., Vásquez, R.A.

Cognitive ecology in hummingbirds: The role of sexual dimorphism and its anatomical correlates on memory

(2014) *PLoS ONE*, 9 (3), art. no. e90165, . Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84897140241&partnerID=40&md5=9f17371b6491d19ea44a3a0c924371b3)

[84897140241&partnerID=40&md5=9f17371b6491d19ea44a3a0c924371b3](http://www.scopus.com/inward/record.url?eid=2-s2.0-84897140241&partnerID=40&md5=9f17371b6491d19ea44a3a0c924371b3)

DOI: 10.1371/journal.pone.0090165

DOCUMENT TYPE: Article

Ramírez, E., Marín, G., Mpodozis, J., Letelier, J.-C.

Extracellular recordings reveal absence of magneto sensitive units in the avian optic tectum

(2014) *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, 200 (12), pp. 983-996.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84911479189&partnerID=40&md5=0b56a16de87bf7dc8665654dd9fe6666)

[84911479189&partnerID=40&md5=0b56a16de87bf7dc8665654dd9fe6666](http://www.scopus.com/inward/record.url?eid=2-s2.0-84911479189&partnerID=40&md5=0b56a16de87bf7dc8665654dd9fe6666)

DOI: 10.1007/s00359-014-0947-6

DOCUMENT TYPE: Article

Vega-Zuniga, T., Medina, F.S., Fredes, F., Zuniga, C., Severín, D., Palacios, A.G., Karten, H.J., Mpodozis, J.

Does nocturnality drive binocular vision? octodontine rodents as a case study

(2013) *PLoS ONE*, 8 (12), art. no. e84199, . Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84896707444&partnerID=40&md5=a2282c9914b0df6f9517adb02ede8dd4)

[84896707444&partnerID=40&md5=a2282c9914b0df6f9517adb02ede8dd4](http://www.scopus.com/inward/record.url?eid=2-s2.0-84896707444&partnerID=40&md5=a2282c9914b0df6f9517adb02ede8dd4)

DOI: 10.1371/journal.pone.0084199

DOCUMENT TYPE: Article

Faunes, M., Fernández, S., Gutiérrez-Ibáñez, C., Iwaniuk, A.N., Wylie, D.R., Mpodozis, J., Karten, H.J., Marín, G.

Laminar segregation of GABAergic neurons in the avian nucleus isthmi pars magnocellularis: A retrograde tracer and comparative study

(2013) *Journal of Comparative Neurology*, 521 (8), pp. 1727-1742. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84875822238&partnerID=40&md5=6c48cdaaeef023543b77c95baaf9fbef)

[84875822238&partnerID=40&md5=6c48cdaaeef023543b77c95baaf9fbef](http://www.scopus.com/inward/record.url?eid=2-s2.0-84875822238&partnerID=40&md5=6c48cdaaeef023543b77c95baaf9fbef)

DOI: 10.1002/cne.23253

DOCUMENT TYPE: Article

Fredes, F., Vega-Zuniga, T., Karten, H., Mpodozis, J.

Bilateral and ipsilateral ascending tectopulvinar pathways in mammals: A study in the squirrel (*Spermophilus beecheyi*)

(2012) *Journal of Comparative Neurology*, 520 (8), pp. 1800-1818. Cited 7 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84856000050&partnerID=40&md5=a3a071ec7a12a4690a33fc8ea7ee3ca3>
DOI: 10.1002/cne.23014
DOCUMENT TYPE: Article

Marín, G.J., Durán, E., Morales, C., González-Cabrera, C., Sentis, E., Mpodozis, J., Letelier, J.C.
Attentional capture? Synchronized feedback signals from the isthmi boost retinal signals to higher visual areas
(2012) *Journal of Neuroscience*, 32 (3), pp. 1110-1122. Cited 17 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84856002863&partnerID=40&md5=73c9ec7f7e75046eb7b28a46d4aab4a8>
DOI: 10.1523/JNEUROSCI.4151-11.2012
DOCUMENT TYPE: Article

Suárez, R., Fernández-Aburto, P., Manger, P.R., Mpodozis, J.
Deterioration of the Gao vomeronasal pathway in sexually dimorphic mammals
(2011) *PLoS ONE*, 6 (10), art. no. e26436, . Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84857465380&partnerID=40&md5=ac831887d187808c210c39acc68d7927>
DOI: 10.1371/journal.pone.0026436
DOCUMENT TYPE: Article

Suárez, R., Santibáñez, R., Parra, D., Coppi, A.A., Abrahão, L.M.B., Sasahara, T.H.C., Mpodozis, J.
Shared and differential traits in the accessory olfactory bulb of caviomorph rodents with particular reference to the semiaquatic capybara
(2011) *Journal of Anatomy*, 218 (5), pp. 558-565. Cited 4 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-79953283047&partnerID=40&md5=16f3758171beb10dbdff77835c975541>
DOI: 10.1111/j.1469-7580.2011.01357.x
DOCUMENT TYPE: Article

Fredes, F., Tapia, S., Letelier, J.C., Marín, G., Mpodozis, J.
Topographic arrangement of the rotundo-entopallial projection in the pigeon (*Columba livia*)
(2010) *Journal of Comparative Neurology*, 518 (21), pp. 4342-4361. Cited 10 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-77957904819&partnerID=40&md5=72a80379cd064a8d843658d3f4d5f111>
DOI: 10.1002/cne.22460
DOCUMENT TYPE: Article

Martínez-Harms, J., Palacios, A.G., Márquez, N., Estay, P., Arroyo, M.T.K., Mpodozis, J.
Can red flowers be conspicuous to bees? *Bombus dahlbomii* and South American temperate forest flowers as a case in point
(2010) *Journal of Experimental Biology*, 213 (4), pp. 564-571. Cited 9 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-76149135378&partnerID=40&md5=e902dd82ce14a9d4be99dbd4f16f646a>
DOI: 10.1242/jeb.037622
DOCUMENT TYPE: Article

Suárez, R., Villalón, A., Künzle, H., Mpodozis, J.

Transposition and intermingling of Gai2 and Gao afferences into single vomeronasal glomeruli in the Madagascan lesser tenrec *Echinops telfairi*

(2009) PLoS ONE, 4 (11), art. no. e8005, . Cited 4 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-71049194412&partnerID=40&md5=12f799eb4ecf45528535b6119d7c2be7)

[71049194412&partnerID=40&md5=12f799eb4ecf45528535b6119d7c2be7](http://www.scopus.com/inward/record.url?eid=2-s2.0-71049194412&partnerID=40&md5=12f799eb4ecf45528535b6119d7c2be7)

DOI: 10.1371/journal.pone.0008005

DOCUMENT TYPE: Article

Suárez, R., Mpodozis, J.

Heterogeneities of size and sexual dimorphism between the subdomains of the lateral-innervated accessory olfactory bulb (AOB) of *Octodon degus* (Rodentia:

Hystricognathi)

(2009) Behavioural Brain Research, 198 (2), pp. 306-312. Cited 10 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-59649115611&partnerID=40&md5=592b8f01da9ffe829c7638b616c5107b)

[59649115611&partnerID=40&md5=592b8f01da9ffe829c7638b616c5107b](http://www.scopus.com/inward/record.url?eid=2-s2.0-59649115611&partnerID=40&md5=592b8f01da9ffe829c7638b616c5107b)

DOI: 10.1016/j.bbr.2008.11.009

DOCUMENT TYPE: Article

Marín, G., Salas, C., Sentis, E., Rojas, X., Letelier, J.C., Mpodozis, J.

A cholinergic gating mechanism controlled by competitive interactions in the optic tectum of the pigeon

(2007) Journal of Neuroscience, 27 (30), pp. 8112-8121. Cited 45 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-34547432449&partnerID=40&md5=be0640b36304f4b40be92fe1eb99fc60)

[34547432449&partnerID=40&md5=be0640b36304f4b40be92fe1eb99fc60](http://www.scopus.com/inward/record.url?eid=2-s2.0-34547432449&partnerID=40&md5=be0640b36304f4b40be92fe1eb99fc60)

DOI: 10.1523/JNEUROSCI.1420-07.2007

DOCUMENT TYPE: Article

Gruberg, E., Dudkin, E., Wang, Y., Marín, G., Salas, C., Sentis, E., Letelier, J., Mpodozis, J., Malpeli, J., Cui, H., Ma, R., Northmore, D., Udin, S.

Influencing and interpreting visual input: The role of a visual feedback system

(2006) Journal of Neuroscience, 26 (41), pp. 10368-10371. Cited 24 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33749868952&partnerID=40&md5=4333bcf496f9ce61a37c28350813f91a)

[33749868952&partnerID=40&md5=4333bcf496f9ce61a37c28350813f91a](http://www.scopus.com/inward/record.url?eid=2-s2.0-33749868952&partnerID=40&md5=4333bcf496f9ce61a37c28350813f91a)

DOI: 10.1523/JNEUROSCI.3288-06.2006

DOCUMENT TYPE: Conference Paper

Mpodozis, J.

Erratum: Oscillatory bursts in the optic tectum of birds represent re-entrant signals from the nucleus isthmi pars parvocellularis (Journal of Neuroscience (July 27, 2005) (7081-7089))

(2005) Journal of Neuroscience, 25 (31), .

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-23444458923&partnerID=40&md5=0d0b47f5c7c5edbbfad313e2a170e838)

[23444458923&partnerID=40&md5=0d0b47f5c7c5edbbfad313e2a170e838](http://www.scopus.com/inward/record.url?eid=2-s2.0-23444458923&partnerID=40&md5=0d0b47f5c7c5edbbfad313e2a170e838)

DOCUMENT TYPE: Erratum

Letelier, J.-C., Marín, G., Sentis, E., Tenreiro, A., Fredes, F., Mpodozis, J.

The mapping of the visual field onto the dorso-lateral tectum of the pigeon (*Columba livia*) and its relations with retinal specializations

(2004) Journal of Neuroscience Methods, 132 (2), pp. 161-168. Cited 9 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0346997975&partnerID=40&md5=ee97a71937edd8a7e0ae7ae29780cb5d)

[0346997975&partnerID=40&md5=ee97a71937edd8a7e0ae7ae29780cb5d](http://www.scopus.com/inward/record.url?eid=2-s2.0-0346997975&partnerID=40&md5=ee97a71937edd8a7e0ae7ae29780cb5d)

DOI: 10.1016/j.jneumeth.2003.09.007

DOCUMENT TYPE: Article

Letelier, J.C., Marín, G., Mpodozis, J.

Autopoietic and (M,R) systems

(2003) *Journal of Theoretical Biology*, 222 (2), pp. 261-272. Cited 43 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0037460094&partnerID=40&md5=84de046ee9f1ad35ebb92dd516a42e82>
DOI: 10.1016/S0022-5193(03)00034-1
DOCUMENT TYPE: Article

Marín, G., Letelier, J.C., Henny, P., Sentis, E., Farfán, G., Fredes, F., Pohl, N., Karten, H., Mpodozis, J.

Spatial organization of the pigeon tectorotundal pathway: An interdigitating topographic arrangement

(2003) *Journal of Comparative Neurology*, 458 (4), pp. 361-380. Cited 45 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0037436889&partnerID=40&md5=fc331f24b313e2e01495d4825d263db3>
DOI: 10.1002/cne.10591
DOCUMENT TYPE: Article

Marín, G., Henny, P., Letelier, J.C., Sentis, E., Karten, H., Mrosko, B., Mpodozis, J.

A simple method to microinject solid neural tracers into deep structures of the brain

(2001) *Journal of Neuroscience Methods*, 106 (2), pp. 121-129. Cited 9 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0035971717&partnerID=40&md5=b954e6f12f3f018c272b859659285ada>
DOI: 10.1016/S0165-0270(01)00332-6
DOCUMENT TYPE: Article

Letelier, J.C., Mpodozis, J., Marín, G., Morales, D., Rozas, C., Madrid, C., Velasco, M.
Spatiotemporal profile of synaptic activation produced by the electrical and visual stimulation of retinal inputs to the optic tectum: A current source density analysis in the pigeon (*Columba livia*)

(2000) *European Journal of Neuroscience*, 12 (1), pp. 47-57. Cited 13 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0033969762&partnerID=40&md5=c403f216466286cd562e4216a0dce74a>
DOI: 10.1046/j.1460-9568.2000.00872.x
DOCUMENT TYPE: Article

Letelier, J.C., Mpodozis, J., Marín, G., Morales, D., Henny, P., Madrid, C., Velasco, M.
Reversible mechanical fixation of eye position in awake head-restrained pigeons (*Columba livia*)

(1999) *Journal of Neuroscience Methods*, 91 (1-2), pp. 67-71. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0032887762&partnerID=40&md5=9ae22db888ce3ab402a19bf5473cfded>
DOI: 10.1016/S0165-0270(99)00073-4
DOCUMENT TYPE: Article

Karten, H.J., Cox, K., Mpodozis, J.

Two distinct populations of tectal neurons have unique connections within the retinotectorotundal pathway of the pigeon (*Columba livia*)

(1997) *Journal of Comparative Neurology*, 387 (3), pp. 449-465. Cited 95 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0030921896&partnerID=40&md5=75da1d19a2d943981d22972772f5b03c>
DOI: 10.1002/(SICI)1096-9861(19971027)387:3<449::AID-CNE10>3.0.CO;2-G
DOCUMENT TYPE: Article

Mpodozis, J., Cox, K., Shimizu, T., Bischof, H.-J., Woodson, W., Karten, H.J.

GABAergic inputs to the nucleus rotundus (pulvinar inferior) of the pigeon (*Columba livia*)

(1996) *Journal of Comparative Neurology*, 374 (2), pp. 204-222. Cited 73 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0029976853&partnerID=40&md5=d5eec29cdb8a6f3b319932f0da34b530)

[0029976853&partnerID=40&md5=d5eec29cdb8a6f3b319932f0da34b530](http://www.scopus.com/inward/record.url?eid=2-s2.0-0029976853&partnerID=40&md5=d5eec29cdb8a6f3b319932f0da34b530)

DOI: 10.1002/(SICI)1096-9861(19961014)374:2<204::AID-CNE4>3.0.CO;2-6

DOCUMENT TYPE: Article

Mpodozis, J., Letelier, J.-C., Concha, M.L., Maturana, H.

Conduction velocity groups in the retino-tectal and retino-thalamic visual pathways of the pigeon (*Columba livia*)

(1995) *International Journal of Neuroscience*, 81 (3-4), pp. 123-136. Cited 17 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0029257537&partnerID=40&md5=83d64bff0c78e4d87f8cddb34ae2226)

[0029257537&partnerID=40&md5=83d64bff0c78e4d87f8cddb34ae2226](http://www.scopus.com/inward/record.url?eid=2-s2.0-0029257537&partnerID=40&md5=83d64bff0c78e4d87f8cddb34ae2226)

DOI: 10.3109/00207459509015304

DOCUMENT TYPE: Article

Letelier, J.C., Mpodozis, J.

Linear analysis of auto-organization in Hebbian neural networks

(1995) *Biological Research*, 28 (1), pp. 97-104.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0029083455&partnerID=40&md5=5db52a21738ac8aeb7a803e8680efa30)

[0029083455&partnerID=40&md5=5db52a21738ac8aeb7a803e8680efa30](http://www.scopus.com/inward/record.url?eid=2-s2.0-0029083455&partnerID=40&md5=5db52a21738ac8aeb7a803e8680efa30)

DOCUMENT TYPE: Conference Paper

Mpodozis, J., Letelier, J.-C., Maturana, H.

Nervous system as a closed neuronal network: Behavioral and cognitive consequences

(1995) *Lecture Notes in Computer Science (including subseries Lecture Notes in*

Artificial Intelligence and Lecture Notes in Bioinformatics), 930, pp. 130-136. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84947417712&partnerID=40&md5=12e79a474d5f6afe5fe43805188536c2)

[84947417712&partnerID=40&md5=12e79a474d5f6afe5fe43805188536c2](http://www.scopus.com/inward/record.url?eid=2-s2.0-84947417712&partnerID=40&md5=12e79a474d5f6afe5fe43805188536c2)

DOCUMENT TYPE: Conference Paper

Maturana, H., Mpodozis, J., Letelier, J.C.

Brain, language and the origin of human mental functions

(1995) *Biological Research*, 28 (1), pp. 15-26. Cited 27 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0029084662&partnerID=40&md5=d6827e1f40fc527cb650f990297e8252)

[0029084662&partnerID=40&md5=d6827e1f40fc527cb650f990297e8252](http://www.scopus.com/inward/record.url?eid=2-s2.0-0029084662&partnerID=40&md5=d6827e1f40fc527cb650f990297e8252)

DOCUMENT TYPE: Conference Paper

Britto, L.R.G., Torrao, A.S., Hamassaki-Britto, D.E., Mpodozis, J., Keyser, K.T., Lindstrom, J.M., Karten, H.J.

Effects of retinal lesions upon the distribution of nicotinic acetylcholine receptor subunits in the chick visual system

(1994) *Journal of Comparative Neurology*, 350 (3), pp. 473-484. Cited 22 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0028113344&partnerID=40&md5=e787e7e571ef5ec06542c1dc1f394b72)

[0028113344&partnerID=40&md5=e787e7e571ef5ec06542c1dc1f394b72](http://www.scopus.com/inward/record.url?eid=2-s2.0-0028113344&partnerID=40&md5=e787e7e571ef5ec06542c1dc1f394b72)

DOI: 10.1002/cne.903500311

DOCUMENT TYPE: Article

Maturana, H.R., Mpodozis, J.

Perception: Behavioral configuration of the object

(1987) *Archivos de Biología y Medicina Experimentales*, 20 (3-4), pp. 319-324. Cited 5 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0023641538&partnerID=40&md5=3498af82a65292afceeb8ca6c173ac3b>

Budnik, V., Mpodozis, J., Varela, F.J., Maturana, H.R.
Regional specialization of the quail retina: Ganglion cell density and oil droplet distribution
(1984) Neuroscience Letters, 51 (1), pp. 145-150. Cited 31 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0021718492&partnerID=40&md5=8dd2e4c18243f576082506ac26dbfb7e>
DOI: 10.1016/0304-3940(84)90276-3
DOCUMENT TYPE: Article

PROYECTOS DE INVESTIGACIÓN: (últimos 10 años).

PORTAFOLIO Académico, Universidad de Chile
3160710; Reconstrucción de la historia evolutiva de los pandelphina (Cetacea: Odontoceti) sudamericanos; 01-11-2015; 01-11-2018; C. Simon / J. Mpodozis; UCH / Facultad de Ciencias, Departamento de Biología, Departamento de Biología; FONDECYT; Postdoctorado

1151432; Computing Visual Motion for What? The Tectal Ganglion Cell and the Tectofugal Pathway of Birds and Mammals; 01-03-2015; 01-03-2019; G. MARÍN / J. Mpodozis; UCH / Facultad de Ciencias, Departamento de Biología, Departamento de Biología; FONDECYT; Regular

3150306; Sociabilidad y asimetrías cerebrales en roedores octodóntidos; 01-11-2014; 01-11-2016; R. Sobrero / J. Mpodozis; UCH / Facultad de Ciencias, Departamento de Biología, Departamento de Biología; FONDECYT; Postdoctorado

EQM-120003; Mejoramiento de las capacidades de la Unidad de Microscopía Avanzada; 01-12-2012; 01-12-2013; C. Gonzalez / A. Glavic; A. Reyes; A. Roth; C. Hetz; C. Vergara; E. Utreras; f. martinez; G. MARÍN; H. Contreras; J. Bacigalupo; J. Mpodozis; L. Norambuena; M. Allende; M. Bono; M. Nuñez; M. Sanhueza; R. Delgado; V. Palma; UCH / Facultad de Ciencias, Departamento de Biología, Departamento de Biología; FONDEQUIP; Concurso de Equipamiento Científico

1120124; Organization of the visual pallium in the pigeon (Columba Livia): Layers and columns in the avian telecephalon?; 01-03-2012; 01-03-2016; J. Mpodozis / G. MARÍN; J. Letelier; UCH / Facultad de Ciencias, Departamento de Biología, Departamento de Biología; FONDECYT; Regular

1110281; A pre-attentional visual mechanism in the midbrain of pigeons: Top-down modulation and performance in the awake condition; 01-03-2011; 01-03-2015; G. MARÍN / J. Letelier; J. Mpodozis; UCH / Facultad de Ciencias, Departamento de Biología, Departamento de Biología; FONDECYT; Regular

F-EM-6; Laboratorio de Neurobiología y Biología del Conocer; 01-03-2010; 01-03-2011; J. Mpodozis / G. MARÍN; J. Letelier; UCH / Facultad de Ciencias, Departamento de Biología, Departamento de Biología; Fondo Central de Investigación; Fondo Contingencia Terremoto

1080220; Modulación colinérgica del flujo ascendente visual en la vía tecto-fugal de los vertebrados; 01-03-2008; 01-03-2011; G. MARÍN / J. Letelier; J. Mpodozis; UCH /

Facultad de Ciencias, Departamento de Biología, Departamento de Biología;
FONDECYT; Regular

1080094; El núcleo geniculado lateral ventral de aves y su posible rol visuomotor: Un caso para el estudio de la modulación colinérgicas sobre la sinapsis retinianas primarias; 01-03-2008; 01-03-2012; J. Mpodozis / G. MARÍN; UCH / Facultad de Ciencias, Departamento de Biología, Departamento de Biología; FONDECYT; Regular

1061108; Dinámica operacional in vivo de la red neural tecto-itsmica en aves: un modelo para el estudio de los mecanismos neuronales de la atención visual; 01-03-2006; 01-03-2010; J. Letelier / G. MARÍN; J. Mpodozis; UCH / Facultad de Ciencias, Departamento de Biología, Departamento de Biología; FONDECYT; Regular

Actualización, mayo 2014