

**CURRICULUM VITAE**  
(Abridged)

**ROBERTO LENT**

November 2007

## GENERAL INFORMATION

Name: Roberto Lent  
Date of birth: 13 September 1948  
Nationality: Brazilian  
Family status: Married

Institutional address:

Departamento de Anatomia  
Instituto de Ciências Biomédicas  
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## **ACADEMIC TITLES**

1979-1982 - Post-doctoral Fellow (Neurobiology) at the Massachusetts Institute of Technology, Cambridge, Mass., USA.

1978 - PhD (Biophysics), Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro.

1973 - MSc (Biophysics), Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro.

1972 - MD, Faculdade de Medicina, Universidade Federal do Rio de Janeiro.

## **MAIN ACADEMIC POSITIONS**

2007-2010 – Director, Institute of Biomedical Sciences, Federal University of Rio de Janeiro (UFRJ)

2005-2007 – Member, Thematic Committee on Science Popularization, National Council for Scientific and Technological Development (CNPq).

2005-2007 - Member, National Council of the Brazilian Society for the Advancement of Science (SBPC)

2004-present – Member of the Municipal Council for Science and Technology, Rio de Janeiro City

2001-2008 - Member of the Superior Council, Fundação CAPES, Brazilian Ministry of Education.

2000-2002 – Coordinator, Graduate Program in Morphological Sciences, Institute of Biomedical Sciences, UFRJ.

1998-present – Member of the Executive Committee of the Unesco Chair of Morphology and Developmental Biology, UFRJ.

1995-1999 - Chairman, Department of Anatomy, Institute of Biomedical Sciences, UFRJ

1995-1999 - Member, National Council of the Brazilian Society for the Advancement of Science (SBPC)

1993-present – Full Professor of Anatomy and Neurobiology, Instituto de Ciências Biomédicas, Universidade Federal do Rio de Janeiro.

1992-1994 - Coordinator, Programa Avançado de Neurociências, Universidade Federal do Rio de Janeiro.

1992-present - Full Member of the Brazilian Academy of Sciences.

1983-present - Head, Laboratório de Neuroplasticidade, Departamento de Anatomia do Instituto de Ciências Biomédicas, Universidade Federal do Rio de Janeiro.

## **AWARDS**

2005 – Research Fellow (1A), National Council for Scientific and Technological Development, CNPq.

2002 – Jabuti Prize for the book *Cem Bilhões de Neurônios (One-Hundred Billion Neurons)*, conferred by the Brazilian Book Chamber

2000 – Science Merit National Medal, conferred by the President of the Republic.

## EDITORIAL POSITIONS

2003-2005 – Director of **Instituto Ciência Hoje**, Brazilian Society for the Advancement of Science (SBPC).

2000-present – Member of the Directive Board, **Vieira & Lent Casa Editorial Ltda.**

1998-present – Editor of Neuroscience and Behavior of the **Brazilian Journal of Medical and Biological Research**, FeSBE.

1996-2003 – Member of the Directive Board of **Projeto Ciência Hoje**, Brazilian Society for the Advancement of Science (SBPC).

## LIST OF PUBLICATIONS

64 items: 48 indexed papers, 11 book chapters, 5 non-indexed papers

Accumulated impact factor (2006): 153.309

Mean impact factor (2006) of published, indexed papers: 3.194

7 books as author, 3 as editor

- 2007 – R. Lent. A estrutura do sistema nervoso (Structure of the nervous system). Chapter 2 of the book *Neurociência da Mente e do Comportamento* (Neuroscience of Mind and Behaviour). R. Lent, editor. Editora Labs/Guanabara-Koogan, in press.
- 2007 – V. Moura-Neto & R. Lent. Como funciona o sistema nervoso (How the nervous system works). Chapter 4 of the book *Neurociência da Mente e do Comportamento* (Neuroscience of Mind and Behaviour). R. Lent, editor. Editora Labs/Guanabara-Koogan, in press.
- 2007 – R. Lent. Neuroplasticidade (Neuroplasticity). Chapter 6 of the book *Neurociência da Mente e do Comportamento* (Neuroscience of Mind and Behaviour). R. Lent, editor. Editora Labs/Guanabara-Koogan, in press.
- 2007 – Rocha, E.G., Santiago, L.F., Freire, M.A.M., Gomes-Leal, W., Dias, I.A., Lent, R., Houzel, J.C., Franca, J.G., Pereira Jr., A. & Picanço-Diniz, C. Callosal axon arbors in the limb representations of the somatosensory cortex (SI) in the agouti (*Dasyprocta primnolopha*). **Journal of Comparative Neurology**, 500: 255-266. *Current impact factor: 3.400*
- 2007 – P.P. Garcez, N.P. Henrique, D.A. Furtado, J.Bolz, R. Lent, D. Uziel. Axons of callosal neurons bifurcate transiently at the white matter before consolidating an interhemispheric projection. **European Journal of Neuroscience**, 25: 1384-1394. *Current impact factor: 3.820*
- 2007 - L.F. Santiago, E.G. Rocha, M.A.M. Freire, I.A. Dias, R. Lent, J.C. Houzel, C.W. Picanço-Diniz, A. Pereira Jr. & J.G. Franca. The organizational variability of the rodent somatosensory cortex. **Reviews in the Neurosciences**, in press. *Current impact factor: 2.529.*
- 2007 - Herculano-Houzel, S., Mota, B. & Lent, R. How to build a bigger brain: Cellular scaling rules in rodent brains. In: **Evolution of Nervous Systems: A Comprehensive Reference**, vol. 4 - Evolution of Nervous System in Mammals (J. Kaas, org.), Oxford: Elsevier, 156-166.

- 2006 – S. Herculano-Houzel, B. Mota & R. Lent. Cellular scaling rules for rodent brains. **Proceedings of the National Academy of Sciences of the USA**, 103: 12138-12143. *Current impact factor: 10.452*
- 2006 – F. Tovar-Moll, J. Moll, I. Bramati, R. Oliveira-Souza, P.A. Andreiuolo & R. Lent. Neuroplasticity in human callosal dysgenesis: a diffusion tensor imaging study. **Cerebral Cortex**, 17: 531-541 (advance publication: [www.cercor.oup.com](http://www.cercor.oup.com), doi=10.1093/cercor/bhj178). *Current impact factor: 5.322*
- 2006 – D. Uziel, P. Garcez, R. Lent, C. Peuckert, R. Niehage, F. Weth & J. Bolz. Connecting thalamus and cortex: the role of ephrins. **Anatomical Record**, 288A: 135-142. *Current impact factor: 3.147*
- 2005 – R. Lent. Neuroética: A ousadia de Prometeu retomada [The audacity of Prometheus revisited]. **Neurociência**, 2: 271-287.
- 2005 – S. Herculano-Houzel & R. Lent. Isotropic fractionator: A simple, rapid method for the quantification of total cell and neuron numbers in the brain. **Journal of Neuroscience**, 25: 2518-2521. *Current impact factor: 8.306.*
- 2005 – R. Lent, D. Uziel, M. Baudrimont & C. Fallet. Cellular and molecular tunnels surrounding the forebrain commissures in human fetuses. **Journal of Comparative Neurology**, 483: 375-382. *Current impact factor: 3.400*
- 2005 - R. Lent, D. Uziel & D. Arruda Furtado. Neurônios. In **Células, Uma Abordagem Multidisciplinar** (Eds. H. F. Carvalho & C.B. Collares-Buzato), Editora Manole, São Paulo, Brazil, pp. 226-247.
- 2004 - S. Braga-de-Souza & R. Lent. Temporal and spatial regulation of chondroitin-sulfate associated to growing commissural fibers from the hippocampus of hamster embryos. **Journal of Comparative Neurology**, 468: 217-232. *Current impact factor: 3.400.*
- 2003 - L. DeAzevedo, C. Fallet, V. Moura-Neto, C. Dumas-Duport, C. Hedin-Pereira, & R. Lent. Cortical radial glial cells in human fetuses: Depth-correlated transformation into astrocytes. **Journal of Neurobiology**, 55: 288-298. *Current impact factor: 3.923.*
- 2002 - J.C. Houzel, M. Carvalho & R. Lent. Interhemispheric connections between primary visual areas: beyond the midline rule. **Brazilian Journal of Medical and Biological Research**, 35: 1441-1454. *Current impact factor: 0.824.*
- 2002 - S. Herculano-Houzel & R. Lent. What the developing cerebral cortex tells about the adult cortex (and vice versa). **Brazilian Journal of Medical and Biological Research**, 35: 1407-1410. *Current impact factor: 0.824.*
- 2002 – L.C. deAzevedo, C. Hedin-Pereira & R. Lent. Diaphorase-positive neurons in the cingulate cortex of human fetuses during the second half of gestation. **Anatomy and Embryology**, 205: 29-35. *Current impact factor: 1.254.*

- 2001– F.G. De Felice, J.C. Houzel, J. Garcia-Abreu, P.R.F. Louzada Jr., R.C. Afonso, M.N.L. Meirelles, *R. Lent*, V. Moura Neto & S.T. Ferreira. Inhibition of Alzheimer's disease beta-amyloid aggregation, neurotoxicity, and in vivo deposition by nitrophenols: implications for Alzheimer's therapy. **FASEB Journal**, 15: 1297-1299 e **FASEB Journal (electronic)** ([www.fasebj.org/cgi/doi/10.1096/fj.00-0676fje](http://www.fasebj.org/cgi/doi/10.1096/fj.00-0676fje)). *Current impact factor: 6.820.*
- 2000 – C. Hedin-Pereira, E.C.P. de Moraes, M.F. Santiago, R. Mendez-Otero & *R. Lent*. Migrating neurons cross a reelin-rich territory to form an organized tissue out of embryonic cortical slices. **European Journal of Neuroscience**, 12: 4536-4540. *Current impact factor: 3.820.*
- 2000 – J.R.L. Menezes, M.M. Frões, V. Moura-Neto & *R. Lent*. Gap junction-mediated coupling in the postnatal anterior subventricular zone. **Developmental Neuroscience**, 22: 34-43. *Current impact factor: 1.520.*
- 1999 - M.A. Pires-Neto, S. Braga-de-Souza & *R. Lent*. Extracellular matrix molecules play diverse roles in the growth and guidance of central nervous system axons. **Brazilian Journal of Medical and Biological Research** 32: 622-630. *Current impact factor: 0.824.*
- 1999 - *R. Lent*. Fabricação do cérebro. In: **Complexidade e Caos** (ed. M. Nussenzveig). Editora UFRJ/COPEA, pp. 199-212.
- 1999 - C. Hedin-Pereira, *R. Lent* & S. Jhaveri. Morphogenesis of callosal axons in hamsters. **Cerebral Cortex**, 9: 50-64. *Current impact factor: 5.322.*
- 1998 - M.A. Pires-Neto, S. Braga-de-Sousa & *R. Lent*. Molecular tunnels and boundaries for growing axons in the anterior commissure of hamster embryos. **Journal of Comparative Neurology**, 399: 176-188. *Current impact factor: 3.400.*
- 1998 - J. R. Menezes, F.V. Dias, A.V.B. Garson & *R. Lent*. Restricted distribution of S-phase cells in the anterior subventricular zone of the postnatal mouse forebrain. **Anatomy and Embryology**, 198: 205-211. *Current impact factor: 1.254.*
- 1997 - D. Uziel, M.C. Lopes-Conceição, D. Simpson & *R. Lent*. Ontogenesis of lateralized rotational behavior in hamsters: A time series study. **Behavioral Brain Research**, 92: 47-53. *Current impact factor: 2.992.*
- 1997 - L.A. DeAzevedo, C. Hedin-Pereira & *R. Lent*. Callosal neurons in the cingulate cortical plate and subplate of human fetuses. **Journal of Comparative Neurology**, 386: 60-70. *Current impact factor: 3.400.*
- 1997 - D.J. Livy, P.M. Schalomon, M. Roy, M.C. Zacharias, J. Pimenta, *R. Lent* & D. Wahlsten. Increased axon number in the anterior commissure of mice lacking a corpus callosum. **Experimental Neurology**, 146: 491-501. *Current impact factor: 3.369.*

- 1996 - D. Uziel, M.C. Lopes-Conceição, R.R. Luiz & R. Lent. Lateralization of rotational behavior in developing and adult hamsters. **Behavioural Brain Research**, 75: 169-177. *Current impact factor: 2.992*
- 1994 - M.A. Pires-Neto, A.L. Hartmann & R. Lent. Topographic organization of fibers in the anterior commissure of developing hamsters. **Brazilian Journal of Medical and Biological Research**, 27: 1369-1376. *Current impact factor: 0.824.*
- 1993 - R. Lent. Nossos dois cérebros diferentes. **Ciência Hoje**, 16: 42-49.
- 1993 - M.A. Pires-Neto & R. Lent. The prenatal development of the anterior commissure in hamsters: pioneer fibers lead the way. **Developmental Brain Research**, 72: 59-66. *Current impact factor: 1.854.*
- 1993 - R. Lent & S.L. Schmidt. The ontogenesis of the forebrain commissures and the determination of brain asymmetries. **Progress in Neurobiology**, 40: 249-276. *Current impact factor: 11.933.*
- 1992 - C. Hedin-Pereira, D. Uziel & R. Lent. Bicommissural neurones in the cerebral cortex of developing hamsters. **NeuroReport**, 3: 873-876. *Current impact factor: 2.351.*
- 1992 - R. Lent. Developmental strategies of the telencephalic commissures: A comparison between the ontogeneses of the visual callosal connections and of the olfactory commissural connections in rodents. In: **The Visual System, from Genesis to Maturity** (ed. R. Lent), Birkhäuser-Boston, pp. 131-146.
- 1992 - R. Lent & S. Jhaveri. Myelination of the telencephalic commissures in hamsters, as revealed by a monoclonal antibody specific for oligodendrocytes. **Developmental Brain Research**, 66: 193-201. *Current impact factor: 1.854.*
- 1991 - M.A. Pires-Neto & R. Lent. Pioneer axons in the anterior commissure of hamster embryos. **Brazilian Journal of Medical and Biological Research**, 24: 1067-1070. *Current impact factor: 0.824*
- 1991 - S.L. Schmidt & R. Lent. The role of the corpus callosum in the rotatory behavior of BALBc/CF mice. **Brazilian Journal of Medical and Biological Research**, 24: 417-420. *Current impact factor: 0.824.*
- 1991 - R. Lent & R.Z.P. Guimarães. Development of paleocortical projections through the anterior commissure of hamsters adopts progressive, not regressive, strategies. **Journal of Neurobiology**, 22: 475-498. *Current impact factor: 3.923.*
- 1990 - R. Lent & R.Z.P. Guimarães. Development of interhemispheric connections through the anterior commissure in hamsters. **Brazilian Journal of Medical and Biological Research**, 23: 671-675. *Current impact factor: 0.824.*

- 1990 - R. Lent, C. Hedin-Pereira, J.R.L. Menezes & S. Jhaveri. Neurogenesis and development of callosal and ipsilateral corticocortical connections in the hamster. **Neuroscience**, 38: 21-37. *Current impact factor: 3.456.*
- 1988 - C. Hedin-Pereira, R. Lent & S. Jhaveri. The development of callosal and corticocortical innervation in the neocortex of the hamster. **Brazilian Journal of Medical and Biological Research** 21: 499-502. *Current impact factor: 0.824.*
- 1988 - R. Lent & J.R.L. Menezes. The neurogenesis of the callosal population of cortical cells in hamsters. **Brazilian Journal of Medical and Biological Research** 21: 503-506. *Current impact factor: 0.824.*
- 1987 - R. Lent. Development and plasticity of connected and disconnected cerebral hemispheres. In: **Neurosciences and Behavior** (ed. M.L. Brandão), UFES, Vitória, pp. 211-239.
- 1987 - S.L. Schmidt & R. Lent. The effects of prenatal irradiation on the development of cerebral cortex and corpus callosum of the mouse. **Journal of Comparative Neurology** 264: 193-204. *Current impact factor: 3.400.*
- 1987 - R. Lent & S.L. Schmidt. Early disconnected brains: developmental plasticity of the cerebral cortex in absence of the corpus callosum. In: **Developmental Neurobiology of Mammals** (eds. C. Chagas & R. Linden). Pontifical Academy of Sciences, The Vatican, pp. 309-346.
- 1986 - R. Lent & S.L. Schmidt. Dose-dependent occurrence of the aberrant longitudinal bundle in the brains of mice born acallosal after prenatal gamma irradiation. **Developmental Brain Research** 25: 127-132. *Current impact factor: 1.854.*
- 1986 - R. Lent. Dilemas da neurobiologia contemporânea. O cérebro que investiga a si próprio. **Ciência e Cultura** 38: 584-597.
- 1985 - R. Lent, R. Linden & L.A. Cavalcante. Transient populations of presumptive macrophages in the developing hamster brain, as indicated by endocytosis of blood borne horseradish peroxidase. **Neuroscience** 15: 1203-1215. *Current impact factor: 3.456.*
- 1984 - R. Lent. Neuroanatomical effects of neonatal transection of the corpus callosum in hamsters. **Journal of Comparative Neurology** 223: 548-555. *Current impact factor: 3.400.*
- 1983 - R. Lent. Cortico-cortical connections reorganize in hamsters after neonatal transection of the callosal bridge. **Developmental Brain Research** 11: 137-142. *Current impact factor: 1.854.*
- 1982 - R. Lent. Cem bilhões de neurônios. **Ciência Hoje** 1: 47-52.

- 1982 - *R. Lent*. The organization of subcortical projections of the hamster's visual cortex. **Journal of Comparative Neurology** 206: 227-242. *Current impact factor: 3.400.*
- 1981 - *R. Lent*. The brain of baby opossums: a model for developmental and plasticity studies. **Trends in Neuroscience** 4: 84-87. *Current impact factor: 14.794.*
- 1980 - *R. Lent* & R. Méndez-Otero. Plasticity of the ipsilateral retinotectal projection in early enucleated opossums: changes in retinotopy and magnification factors. **Neuroscience Letters**. 18: 37-43. *Current impact factor: 2.019.*
- 1979 - *R. Lent*. Plasticidade e recuperação funcional no sistema nervoso traumatizado. **Revista Pestalozzi** 5: 16-19.
- 1978 - *R. Lent* & C.E. Rocha-Miranda. Aberrant retinofugal projections in the opossum after eye enucleation and tectal lesion. In: **Opossum Neurobiology** (eds. C.E. Rocha-Miranda & R. Lent). Academia Brasileira de Ciências, Rio de Janeiro, pp. 217-250.
- 1978 - E. Volchan, C. E. Rocha-Miranda, *R. Lent* & L.G. Gawryszewski. The retinotopic organization of the superior colliculus in the opossum (*Didelphis marsupialis aurita*). In: **Opossum Neurobiology** (C.E. Rocha-Miranda & R. Lent, eds.). Academia Brasileira de Ciências, Rio de Janeiro, pp. 107-112.
- 1976 - *R. Lent*, L.A. Cavalcante & C.E. Rocha-Miranda. Retinofugal projections in the opossum - an anterograde degeneration and radioautographic study. **Brain Research** 107: 9-26. *Current impact factor: 2.389.*
- 1976 - C.E. Rocha-Miranda, R. Linden, E. Volchan, *R. Lent* & R.A. Bombardieri. Receptive field properties of single units in the opossum striate cortex. **Brain Research** 104: 197-219. *Current impact factor: 2.389.*
- 1975 - L.A. Cavalcante, C.E. Rocha-Miranda & *R. Lent*. Hypothalamic, tectal and accessory optic projections in the opossum. **Brain Research** 84: 302-307. *Current impact factor: 2.389*
- 1974 - *R. Lent* & C.E. Rocha-Miranda. Survival times and patterns of degeneration in the visual system of the opossum. **Brain Research** 72: 294-299. *Current impact factor: 2.389*

## RECENT THESES OF GRADUATE STUDENTS

Total number of theses: 23 (13 PhD, 10 MSc)

- 2007 – Taís Rabetti Gianella. Inovações no ensino das Ciências e da Saúde: pesquisa e desenvolvimento da ferramenta Constructore e do Banco Virtual de Neurociência. **Doctor in Sciences**, Programa de Pós-Graduação em Química Biológica, Instituto de Bioquímica Médica, UFRJ.
- 2007 – Mauren Lopes de Carvalho. Maturação pós-natal das conexões tálamo-corticais visuais no rato. **Master in Morphological Sciences**, Programa de Pós-Graduação em Ciências Morfológicas, Instituto de Ciências Biomédicas, UFRJ.
- 2006 – Fabiana C. Bandeira. Dinâmica das populações neuronal e não-neuronal no encéfalo do rato em desenvolvimento. **Doctor in Morphological Sciences**, Programa de Pós-Graduação em Ciências Morfológicas, Instituto de Ciências Biomédicas, UFRJ.
- 2005 – Danilo A. Furtado. Evolução e morfogênese do sistema nervoso de mamíferos. **Doctor in Sciences**, Programa de Pós-Graduação em Ciências Biológicas (Biofísica), Instituto de Biofísica Carlos Chagas Filho, UFRJ.
- 2004 – Patrícia P. Garcez. Bifurcações axonais: Possível estratégia do desenvolvimento do corpo caloso. **Master in Morphological Sciences**, Programa de Pós-Graduação em Ciências Morfológicas, Instituto de Ciências Biomédicas, UFRJ.
- 2004 – Sheine M. Schanuel. Expressão de condroitim sulfato no telencéfalo de embriões de camundongos: possível relação com o trajeto migratório dos precursores GABAérgicos neocorticais. **Master in Morphological Sciences**, Programa de Pós-Graduação em Ciências Morfológicas, ICB-UFRJ.
- 2004 - Lacy Barca de Andrade. Iguarias na hora do jantar: o espaço da ciência no telejornalismo diário. **Doctor in Sciences**. Programa de Pós-Graduação em Química Biológica, Instituto de Ciências Biomédicas, UFRJ.
- 2003 – Suzana Braga de Souza. Proteoglicanos e desenvolvimento das comissuras do hipocampo. **Doctor in Morphological Sciences**. Programa de Pós-Graduação em Ciências Morfológicas, Instituto de Ciências Biomédicas, UFRJ.

2001 – Luiza Massarani. Admirável Mundo Novo: A ciência, os cientistas e a dupla hélice sob o olhar dos estudantes. **Doctor in Sciences**, Programa de Pós-Graduação em Química Biológica, Instituto de Ciências Biomédicas, UFRJ.

## SCIENCE POPULARIZATION

- 2007 - *R. Lent. Os novos vilões da demência senil* (The new villains of senile dementia). Column *One Hundred Billion Neurons* (September), in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/101933](http://www.cienciahoje.org.br/101933).
- 2007 - *R. Lent. Pensamentos sem rumo* (Wandering thoughts). Column *One Hundred Billion Neurons* (August), in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/99366](http://www.cienciahoje.org.br/99366).
- 2007 - *R. Lent. Com o cérebro nas mãos* (With the brain in the hands). Column *One Hundred Billion Neurons* (July), in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/97273](http://www.cienciahoje.org.br/97273).
- 2007 – *R. Lent. Assim caminha a humanidade* (How mankind marches forward). Column *One Hundred Billion Neurons* (June), in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/95200](http://www.cienciahoje.org.br/95200).
- 2007 – *R. Lent. A teoria da mente em questão* (The theory of mind in debate). Column *One Hundred Billion Neurons* (May), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/92922](http://www.cienciahoje.org.br/92922).
- 2007 – *R. Lent. Faces, a expressão da alma* (Faces, expressions of the soul). Column *One Hundred Billion Neurons* (April), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/69803](http://www.cienciahoje.org.br/69803).
- 2007 – *R. Lent. As aventuras de Zé Neurim em quadrinhos* (Adventures of Zé Neurim in cartoons). A collection of miniposters with cartoons about Neuroscience for children. Instituto Ciência Hoje/FAPERJ.
- 2007 – *R. Lent. No horizonte, as causas da miopia* (Causes of myopia on the horizon). Column *One Hundred Billion Neurons* (March), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/68226](http://www.cienciahoje.org.br/68226).
- 2007 – *R. Lent. “Trair e coçar, é só começar”* (To cheat and to scratch needs only to start). Column *One Hundred Billion Neurons* (February), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/66812](http://www.cienciahoje.org.br/66812).

- 2007 - *R. Lent. Invisíveis e insensíveis odores da natureza* (Invisible and insensible odours of nature). Column *One Hundred Billion Neurons* (January), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/65646](http://www.cienciahoje.org.br/65646).
- 2006 – *R. Lent. Igualdade de gêneros no sistema nervoso* (Gender equality in the nervous system). Column *One Hundred Billion Neurons* (December), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/64478](http://www.cienciahoje.org.br/64478).
- 2006 – *R. Lent. A bomba atômica e o nascimento de neurônios* (The atomic bomb and the birth of neurons). Column *One Hundred Billion Neurons* (November), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/62715](http://www.cienciahoje.org.br/62715).
- 2006 – *R. Lent. O desafio de entender a mente* (The challenge of understanding the mind). *Jornal do Brasil*, 5/Nov/2006.
- 2006 – *R. Lent. Regeneração, inflamação e circunstâncias* (Regeneration, inflammation, and circumstances). Column *One Hundred Billion Neurons* (October), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/61090](http://www.cienciahoje.org.br/61090).
- 2006 - *R. Lent. A consciência aos pedaços* (Consciousness in pieces). Column *One Hundred Billion Neurons* (September), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/59763](http://www.cienciahoje.org.br/59763).
- 2006 - *R. Lent. Quantos neurônios tem um cérebro?* (How many neurons has a brain?) Column *One Hundred Billion Neurons* (August), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/55823](http://www.cienciahoje.org.br/55823).
- 2006 – *R. Lent. Oops! Quando foi mesmo meu casamento?* (Oops! When did my marriage take place?) Column *One Hundred Billion Neurons* (July), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/53843](http://www.cienciahoje.org.br/53843).
- 2006 – *R. Lent. Os neurorrobôs estão chegando!* (Neurorobots are coming!) Column *One Hundred Billion Neurons* (June), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/52107](http://www.cienciahoje.org.br/52107).
- 2006 – *R. Lent. Para o outro a escuridão era total...* (For the other, darkness was complete...) Column *One Hundred Billion Neurons* (may), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/49516](http://www.cienciahoje.org.br/49516).

- 2006 – R. Lent. **Robert Schumann e o cérebro dos músicos**. Coluna *One Hundred Billion Neurons* (April), published monthly in the electronic magazine *Ciência Hoje On Line*, [www.cienciahoje.org.br/47676](http://www.cienciahoje.org.br/47676).
- 2005 – R. Lent & F. Dealmeida. **Aventuras de Ptix e Zé Neurim** (Adventures of Ptix and Zé Neurim). A series of 10 on-line cartoons for children, at [www.cienciahoje.org.br](http://www.cienciahoje.org.br).
2004. R. Lent. **A homeostasia e as ondas do mar** (Homeostasis and the sea waves). *Neurociências*, 8: 34.
- 2004 – R. Lent. **Pareidolias**. *Ciência Hoje*, 34 (210): 76.
- 2004 – R. Lent. **Intervenção no cérebro: A neuroética em discussão** (Intervention in the brain: Neuroethics under discussion). *Ciência Hoje*, 34 (204): 15.
- 2004 – R. Lent. **Aventuras de um Neurônio Lembrador** (Adventures of a Remembering Neuron) Vieira & Lent Casa Editorial. A Neuroscience series of 5 books for children.
- 1982-present – R. Lent. Founder and Member of the Board of Directors of the Projeto *Ciência Hoje* (now **Instituto Ciência Hoje**)
- 2002 – R. Lent. **Cem Bilhões de Neurônios**. Conceitos Fundamentais de Neurociência (**One Hundred Billion Neurons**. Fundamental Concepts in Neuroscience). Text-book for graduate and undergraduate students, 688 pages, 400 figures. Editora Atheneu/FAPERJ, Rio de Janeiro, Brazil. Prêmio Jabuti 2003, Menção Honrosa (Jabuti Prize 2002).
- 1993 - R. Lent. **Nossos dois cérebros diferentes**. (Our two different brains) *Ciência Hoje*, 16(130): 42-49.
- 1992 – R. Lent. **Ciência Hoje faz 10 anos. Democrática ou autoritária?** (Ciência Hoje is 10 year-old. Democratic or authoritarian?) *Ciência Hoje* 14(82): 42.
- 1988 – R. Lent. **Neurociências para um domingo chuvoso**. (Neurosciences for a rainy Sunday) *Ciência Hoje* 7(41): 26.
- 1986 – R. Lent. **A volta da hidra de Lerna** (The return of the Lernaean hydra). *Ciência Hoje* 4(26): 20.
- 1985 – R. Lent. **Quando a Amazônia pegou fogo** (When the Amazon caught fire). *Ciência Hoje* 3(17): 22.
- 1985 – R. Lent. **Detectores de faces no cérebro de macacos** (Face detectors in the brain of monkeys). *Ciência Hoje* 3(18): 15-16.

- 1985 – R. Lent e M.A. Esquibel. **Essas úteis bactérias patogênicas** (These useful pathogenic bacteria). *Ciência Hoje* 4(19): 23.
- 1985 – R. Lent. **Nem só os neurônios enviam mensagens** (Not only neurons send messages). *Ciência Hoje* 4(20): 13.
- 1985 – R. Lent. **A visão de cores nos peixes** (Color vision in fishes). *Ciência Hoje* 4(20): 14.
- 1985 – R. Lent. **Embriões congelados** (Frozen embryos). *Ciência Hoje* 4(20): 15.
- 1982 – R. Lent, A. P. Guimarães, E. Candotti, D.F. Almeida. **Fundação da revista Ciência Hoje**, da SBPC (Foundation of Ciência Hoje magazine, SBPC).
- 1982 – R. Lent. **Cem bilhões de neurônios** (One hundred billion neurons). *Ciência Hoje* 1(1): 47-52.
- 1979 – R. Lent. **Comunidade científica e difusão da ciência** (Scientific community and the popularization of science). *Ciência e Cultura* 31: 1359-1360.

## BOOKS

- 2007 – **Neurociência da Mente e do Comportamento** (Neuroscience of Mind and Behavior) (*R. Lent*, ed.). Multi-author textbook. Editora Lab/Guanabara-Koogan, in press.
- 2005 – **O Esquecimento do Neurônio Lembrador** (The Lapse of the Remembering Neuron), fifth book of the 5-book series **Aventuras de um Neurônio Lembrador (Adventures of a Remembering Neuron)**, Neuroscience for children 8-12. Vieira & Lent Casa Editorial, Rio de Janeiro.
- 2005 – **Atenção, Neurônios na Bicicleta!** (Attention, Neurons on a Byke!), fourth book of the 5-book series **Aventuras de um Neurônio Lembrador (Adventures of a Remembering Neuron)**, Neuroscience for children 8-12. Vieira & Lent Casa Editorial, Rio de Janeiro.
- 2004 – **Um Neurônio de Olho Vivo** (A Neuron with a Keen Eye), third book of the 5-book series **Aventuras de um Neurônio Lembrador (Adventures of a Remembering Neuron)**, Neuroscience for children 8-12. Vieira & Lent Casa Editorial, Rio de Janeiro.
- 2004 – **O Mico do Neurônio Escutador** (The Marmoset and the Hearing Neuron), second book of the 5-book series **Aventuras de um Neurônio Lembrador (Adventures of a Remembering Neuron)**, Neuroscience for children 8-12. Vieira & Lent Casa Editorial, Rio de Janeiro.
- 2004 – **O Neurônio Apaixonado** (A Neuron in Love), first book of the 5-book series **Aventuras de um Neurônio Lembrador (Adventures of a Remembering Neuron)**, Neuroscience for children 8-12. Vieira & Lent Casa Editorial, Rio de Janeiro.
- 2004 – **Cem Bilhões de Neurônios**. Conceitos Fundamentais de Neurociência [Edição revista e ampliada] (**One Hundred Billion Neurons**. Fundamental Concepts in Neuroscience) [A revised and enlarged edition] . Text-book for graduate and undergraduate students, 688 pages, 400 figures. Editora Atheneu, Rio de Janeiro, Brazil. Jabuti Award 2003, Brazilian Book Chamber.
- 2002 – **Cem Bilhões de Neurônios**. Conceitos Fundamentais de Neurociência (**One Hundred Billion Neurons**. Fundamental Concepts in Neuroscience). Text-book for graduate and undergraduate students, 688 pages, 400 figures. Editora Atheneu, Rio de Janeiro, Brazil. Jabuti Award 2003, Brazilian Book Chamber.

- 1992 - **The Visual System, from Genesis to Maturity** (*R. Lent*, ed.). Annals of a homonymous symposium, 283 pp. Birkhäuser, Boston, USA.
- 1978 - **Opossum Neurobiology** (*R. Lent* & C.E. Rocha-Miranda, eds). Annals of a homonymous symposium, 291 pp. Brazilian Academy of Sciences, Rio de Janeiro, Brazil.