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Curriculum vitae

Name: Robert Gábrriel

Nationality: Hungarian

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Address: Department of General Zoology and Neurobiology,
University of Pécs, **PÉCS**, H-7601, Ifjúság u. 6, *Hungary*

Biodata: Born 2 July, 1961, Mosonmagyaróvár, Hungary.
Married (Márta Wilhelm Gábrriel), with two
children, Zsófia, 12 and Eszter, 6 years old.

Degrees held: *M.Sc. Szeged, 1985.*
Ph.D. Szeged, 1989.
C.Sc. Budapest, 1995.
Dr. Habil. Pécs, 1999.
D.Sc. Budapest, 2001.

Present appointments: 2001- Dean, Faculty of Sciences,
University of Pécs, Pécs, Hungary

2001- Professor, Department of General Zoology and
Neurobiology University of Pécs, Pécs, Hungary

2000- Department Head,
Department of General Zoology and Neurobiology
University of Pécs, Pécs, Hungary and
Director, Biological Institute, Faculty of Sciences,
University of Pécs, Pécs, Hungary

Positions held: 1995-1999 Associate professor,
Department of General Zoology and Neurobiology,
Janus Pannonius University, Pécs, Hungary

1985-1990 Lecturer, Department of
Zoology, Attila József University, Szeged, Hungary

1990-1993 Senior lecturer, Department of
Zoology, Attila József University,
Szeged, Hungary.

1993-95 Senior lecturer, Department of Zoology,
Janus Pannonius University, Pécs, Hungary

Teaching: Comparative Anatomy and Histology, Physiology, Neuroanatomy, Advanced Neuroscience and Structural Cell Biology to medical and science students.
Special courses for PhD students

Thesis leadership: **MSc.:** J. Baranyai, E. Váradi, A. Boldizsár, V. Liebl, I. Pásztor, V. Dénes, E. Veisenberger, L. Femérai, K. Kelemen, J. Trombitás, K. Kecse-Nagy, T. Molnár, B. Gerő, S. Szigetváry, B. Rácz, K. Sándor, A. Bite

PhD.: E. Pollák, B. Völgyi, K. Rábl, V. Dénes

Temporary Research Appointments:

September, 1988 and May, 1989: Department of Animal Physiology, Friedrich Schiller University, Jena, Germany

April, 1990-June, 1990 Department of Histology and Microscopic Anatomy, University of Antwerp, Belgium

July, 1990-August, 1992 Department of Anatomy and Histology, Flinders University of South Australia, Australia

January/April 1994, June/July 1995 and 1996 August 1997-July 1999 Department of Ophthalmology, New York University Medical Center, New York, USA

Research Experience: Light- and electron microscopic enzyme histochemistry and immunocytochemistry. Microanatomical organization of the enteric nervous system, invertebrate ganglia and visual system of vertebrates. Physiology and pharmacology of the retina.

Society Memberships: European Neuroscience Association
Hungarian Neuroscience Society
Association for Research in Vision and Ophthalmology

Honours and awards: Hungarian People's Rep. Scholarship 1983/84 and 84/85

ESF Travel Grant to Summer School on Modern Neuroanatomical Methods	1987
Fellow of the ESF in Antwerp	1990
ENA Travel Grant to the Annual Meeting in Madrid	1993

Fellow of the HFSPPO in New York	1994
Research grant from Hungarian Science Foundation	1995-98
Listed in, " Who is Who in the World"	1997
Travel grant from Research to Prevent Blindness, Inc.	1998
János Bolyai Fellowship, Hungarian Acad. Sci.	2000-2003

Invited Seminars:

Zoological Division, Hung. Acad. Sci., Budapest, Hungary

Friedrich Schiller University, Jena, Germany

Flinders University of South Australia, Adelaide, Australia

University of Melbourne, Melbourne, Australia

Eberhard Karls University, Tübingen, Germany

University of Salzburg, Salzburg, Austria

Hungarian Academy of Sciences, Pécs Regional Committee

Invited lectures at conferences:

2nd Hungarian Visual Science Symposium

Editorial work:

Guest Editor: Microscopy Research and Technique

Reviewer service to professional journals:

Vision Research, Journal of Neurochemistry, Neuroscience Letters, Brain Research,
The Anatomical Record, Microscopy Research and Technique, Szemészet
(Ophthalmology-in Hungarian), Neuroscience, Veterinary Medicine

LIST OF PUBLICATIONS

Dr. Robert Gábrriel

Monographs, book chapters and reviews

1. Fekete, É., Halasy, K., Gábrriel, R. and Benedeczky, I. (1988) Some histochemical aspects of invertebrate enteric nervous system. In: **Neurobiology of Invertebrates**, Symposia Biologica Hungarica 36, (Eds. *Salánki, J.* and *S.-Rózsa, K.*) pp. 185-197.
2. Gábrriel, R. (1988) Morphology and ultrastructure of frog myenteric plexus (*in Hungarian*). **PhD Thesis, Szeged**.
3. Gábrriel, R. (1993) Morphological and neurochemical organisation of myenteric plexus in lower vertebrates (*in Hungarian*). **CSc Thesis, Szeged**.
4. Gábrriel R, Rábl K, Veisenberger E (2000) Synaptology of the inner plexiform layer in the anuran retina. **Microsc. Res. Tech.** 50, 394-402.
5. Gábrriel R (2000) What do we owe to the frog' s eye in retinal research? A historical perspective. **Microsc. Res. Tech.** 50, 325-326.
6. Gábrriel R., Wilhelm M. (2001) Structure and function of photoreceptor and second-order cell mosaics in the retina of *Xenopus*. **Int. Rev. Cytol.** 210, 77-120.
7. Molnár, L. és Gábrriel, R. (2001) Histotechnology (*in Hungarian*). **Dialóg-Campus**, Budapest-Pécs, pp. 1- 549.
8. Gábrriel, R. (2003) Retinal circadian rhythm: one conductor, many musicians. In: Rhythmic biological processes (eds V. Csernus, B.Mess). **Dialóg-Campus**, Budapest-Pécs, pp. 137-145.
9. Hámori J., Gábrriel R, Csoknya M. (2003) Neural networks and history of Neuroscience (*in Hungarian*). In: Neurobiology (Ed.: M. Csoknya). **PTE TTK**, Pécs, pp. 6-17.
10. Gábrriel R (2003) Structure and function of synapses (*in Hungarian*). In: Neurobiology (Ed.: M. Csoknya). **PTE-TTK**, Pécs, pp. 67-76.
11. Gábrriel R (2003) Postsynaptic receptors. (*in Hungarian*). In: Neurobiology (Ed.: M. Csoknya). **PTE-TTK**, Pécs, pp. 77-99.
12. Gábrriel R (2003) Structure and function of the visual system. (*in Hungarian*). In: Neurobiology (Ed.: M. Csoknya). **PTE-TTK**, Pécs, pp. 195-223
13. Csoknya M, Gábrriel R (2003) Plasticity of the nervous system (*in Hungarian*). In: Neurobiology (Ed.: M. Csoknya). **PTE TTK**, Pécs, pp. 225-238.

Book review

1. Gábriel, R. (1988) The central nervous system of cartilaginous fishes: structure and functional correlations (by *W.J.A.J. Smeets, R. Nieuwenhuys* and *B.L. Roberts*, eds). **Neuroscience** 26, 364-365.

Research Papers

1. Gábriel, R., Halasy, K. and Csoknya, M. (1987) Cytochemical detection of NADH-diaphorase positive nerve cells in the intestinal canal of frog. **Acta Biol. Szeged.** 33, 85-95.

2. Halasy, K., Benedeczky, I., Fekete, É., Tóth, L. and Gábriel, R. (1988) Enteric neuromuscular junctions: comparison of ultrastructural features in different phylogenetic groups. **Neuroscience** 25, 147-162.

3. Gábriel, R., Halasy, K. and Csoknya, M. (1988) Visualization of neurons by NADH-diaphorase staining in the myenteric plexus of some invertebrate and vertebrate species. **Z. mikrosk.-anat. Forsch.** 102, 769-784.

4. Csoknya, M., Halasy, K. and Gábriel, R. (1988) Quantitative studies on the caeca of developing chicks. **Working Papers (Osijek-Pécs)** 1, 241-250.

5. Asztalos, B., Nemcsók, J., Benedeczky, I., Gábriel, R. and Szabó, A. (1988) Comparison of effects of paraquat and methidation on enzyme activity and tissue necrosis of carp, following exposure to pesticides singly or in combination. **Environ. Poll.** 55, 123-135.

6. Gábriel, R., Fekete, É. and Halasy, K. (1989) Consecutive diaphorase acetylcholinesterase histochemistry in the myenteric plexus of frog stomach. **Acta histochem.** 85, 135-151.

7. Gábriel, R. and Eckert, M. (1989) GABA-like immunoreactivity in myenteric plexus of frog stomach. **Histochemistry** 91, 523-525.

8. Fekete, É. and Gábriel, R. (1989) Light and electron microscopic localization of GABA-like immunoreactivity in chicken midgut myenteric plexus. **Histochemistry** 93, 75-80.

9. Gábriel, R., Benedeczky, I. and Csoknya, M. (1989) Myenteric plexus of frog large intestine: light and electron microscopy of fibre system and neurons. **Acta Morphol. Hung.** 37, 71-84.

10. Gábriel, R. (1989) Elements of control of smooth muscle activity in the frog stomach: an EM study. **Acta Biol. Szeged.** 35, 103-113.

11. Csoknya, M., Fekete, É., Gábriel, R., Halasy, K. and Benedeczky, I. (1990) Histochemical characterization of myenteric plexus in domestic fowl small intestine. **Z. mikrosk.-anat. Forsch.** 104, 625-638.

12. Gábriel, R., Halasy, K., Fekete, É., Eckert, M. and Benedeczky, I. (1990) Distribution of GABA-like immunoreactivity in myenteric plexus of carp, frog and chicken. **Histochemistry** 94, 323-328.
13. Asztalos, B., Nemcsók, J., Benedeczky, I., Gábriel, R., Szabó, A. and Refaie, O.J. (1990) The effects of pesticides on some biological parameters of carp (*Cyprinus carpio* L.) **Arch. Environ. Contam. Toxicol.** 19, 275-282.
14. Gábriel, R. (1990) Distribution of substance P-like immunoreactivity in the gastrointestinal tract of *Rana esculenta* L. **Histochem. J.** 22, 560-566.
15. Gábriel, R., Timmermans, J.P., Adriaensen, D., De Grootd-Lasseel, M.H.A. and Scheuermann, D.V. (1990) High density of NPY-innervation in the myenteric plexus of the turtle midgut. An immunocytochemical study. **Acta Biol. Hung.** 41, 263-268.
16. Timmermans, J.P., Scheuermann, D.W., Gábriel, R., Adriaensen, D., Fekete, É. and De Grootd-Lasseel, M.H.A. (1991) The innervation of the gastrointestinal tract of a chelonian reptile, *Pseudemys scripta elegans*. I. Structure and topography of the enteric nerve plexuses using neuron-specific enolase immunocytochemistry. **Histochemistry** 95, 397-402.
17. Scheuermann, D.W., Gábriel, R., Timmermans, J.-P., Adriaensen, D. and De Grootd-Lasseel, M.H.A. (1991) The innervation of the gastrointestinal tract of a chelonian reptile, *Pseudemys scripta elegans*. II. Distribution of neuropeptides in the myenteric plexus. **Histochemistry** 95, 403-411.
18. Gábriel, R. (1991) GABA immunocytochemistry reveals five morphologically different nerve cell types in frog stomach. **Acta Morphol. Hung.** 39, 15-19.
19. Fekete, É., Gábriel, R. and Boros, A. (1991) Relationship between appearance of GABA, fluorogenic monoamines and cytochrome oxidase activity during prenatal morphogenesis of chick myenteric plexus. **Anat. Embryol.** 184, 489-496.
20. Gábriel, R. (1991): A method for the demonstration of NADPH-diaphorase activity in anuran species using unfixed retinal wholemounts. **Arch. Histol Cytol.** 54, 205-209.
21. Straznický, C. and Gábriel, R. (1991): NADPH-diaphorase positive neurons in the retina of *Bufo marinus*: selective staining of bipolar and amacrine cells. **Arch. Histol. Cytol.** 54, 211-218.
22. Gábriel, R., Straznický, C. and Zhu, B. (1991): Tyrosine hydroxylase immunoreactive elements in the distal retina of *Bufo marinus*: a light and electron microscopic study. **Brain Res.** 559, 225-232.
23. Gábriel, R., Fekete, É. and Csoknya, M. (1992) Some morphological and histochemical features of midgut myenteric plexus of the common European frog, *Rana esculenta*. **Histol. Histopathol.** 7, 83-91.
24. Gábriel, R., Timmermans, J.P., Adriaensen, D., De Grootd-Lasseel, M.H.A. and Scheuermann, D.W. (1992) Morphological features of the myenteric plexus of the stomach of the axolotl, *Ambystoma mexicanum*, revealed by immunocytochemistry. **Histochem. J.** 24, 181-189.

25. Gábriel, R. and Budai, D. (1992) Seasonal variations in acetylcholine contents and levels of cholinergic enzymes in the alimentary tract and heart of *Rana esculenta* L. **J. Auton. Nerv. Syst.** 40, 223-228.
26. Gábriel, R., Straznicky, C. and Wye-Dvorak, J. (1992): GABA-like immunoreactive neurons in the retina of *Bufo marinus*: evidence for the presence of GABA-containing ganglion cells. **Brain Res.** 571, 175-179. 1992.
27. Gábriel, R., Zhu, B. and Straznicky, C. (1992): Synaptic contacts of tyrosine hydroxylase-immunoreactive elements in the inner plexiform layer of the retina of *Bufo marinus*. **Cell Tissue Res.** 267, 525-534.
28. Straznicky, C., Vickers, J.C., Gábriel, R. and Costa, M. (1992): A neurofilament protein antibody selectively labels a large ganglion cell type in the human retina. **Brain Res.** 582, 123-128.
29. Gábriel, R., Wilhelm, M. and Straznicky, C. (1992): MAP2-immunoreactive neurons in the retina of *Bufo marinus*: colocalisation with tyrosine hydroxylase and serotonin in amacrine cells. **Cell Tissue Res.** 269, 175-182.
30. Zhu, B., Gábriel, R. and Straznicky, C. (1992): Serotonin synthesis and accumulation by neurons in the anuran retina. **Visual Neurosci.** 9, 377-388.
31. Gábriel, R. and Straznicky, C. (1992): Immunocytochemical localization of parvalbumin- and neurofilament triplet protein-immunoreactivity in the cat retina: colocalization in a subpopulation of All amacrine cells. **Brain Res.** 595, 133-136.
32. Wilhelm, M., Straznicky, C. and Gábriel, R. (1992): Neuron-specific enolase-like immunoreactivity in the vertebrate retina: selective labelling of Müller cells in Anura. **Histochemistry** 98, 243-252.
33. Wilhelm, M., Shulcz, H. and Gábriel, R. (1992) Behaviour of an alcohol-preferring strain of Wistar rats. **Acta biol. Szeged.** 38, 57-66.
34. Gábriel, R. and Straznicky, C. (1993) Quantitative analysis of GABA-immunoreactive synapses in the retina of *Bufo marinus*: identification of direct output to ganglion cells and contacts with dopaminergic amacrine cells. **J. Neurocytol.** 22, 26-38.
35. Wilhelm, M., Zhu, B., Gábriel, R. and Straznicky, C. (1993): Serotonin-synthesizing neurons in the vertebrate retina: a comparative study. **Exp. Eye Res.** 56, 231-240.
36. Gábriel, R., Wilhelm, M. and Straznicky, C. (1993): Morphology and distribution of Müller cells in the retina of the toad *Bufo marinus*. **Cell Tissue Res.** 272, 183-192.
37. Gábriel, R., Zhu, B. and Straznicky, C. (1993) Synaptic contacts of serotonin-like immunoreactive and 5,7-dihydroxytryptamine-accumulating neurons in the anuran retina. **Neuroscience** 54, 1103-1114.
38. Main, C.M., Wilhelm, M. and Gábriel, R. (1993) Colocalization of GABA-immunoreactivity in neuropeptide- and monoamine-containing amacrine cells in the retina of *Bufo marinus*. **Arch. Histol. Cytol.** 56, 161-166.

39. Gábriel, R. and Straznický, C. (1993) Optic terminals form axosomatic synapses with deep tectal neurons in *Bufo marinus*. **Neurobiology**, 1, 313-325.
40. Gábriel, R. and Wilhelm, M. (1994) Quantitative synaptology of the inner plexiform layer of the retina of *Bufo marinus*. **Eur. J. Morphol.** 32, 19-33.
41. Gábriel, R. and Straznický, C. (1994) Identified retinal axons occupy postsynaptic positions in the optic tectum of *Bufo marinus*. **Neurobiology** 2, 235-243.
42. Straznický, C. and Gábriel, R. (1995) Synapses of bplexiform ganglion cells in the outer plexiform layer of the retina in *Xenopus laevis*. **J. Brain Res.** 36, 135-141.
43. Witkovsky, P., Gábriel, R., Krizaj, D. and Akopian, A. (1995) Participation of luminosity horizontal cells in the organization of depolarizing responses to red light by chromatic horizontal cells in *Xenopus* retina. **Proc. Natl. Acad. Sci. USA** 92, 3556-3560.
44. Gábriel, R. and Straznický, C. (1995) Synapses of optic axons with GABA- and glutamate-containing elements in the optic tectum of *Bufo marinus*. **J. Brain Res.** 36, 329-340.
45. Telkes I, Csoknya M, Buzás P, Gábriel R, Hámori J, Elekes K (1996) GABA-immunoreactive neurons in the central and peripheral nervous system of the earthworm, *Lumbricus terrestris* (Oligochaeta, Annelida). **Cell Tissue Res.** 285, 463-475.
46. Buzás P, Jeges S, Gábriel R (1996) The number and distribution of bipolar to ganglion cell synapses in the inner plexiform layer of the anuran retina. **Visual Neurosci.** 13, 1099-1107.
47. Pollák E, Tóth P, Gábriel R, Lázár G (1997) Ultrastructure of the isthmus nucleus and identification of the synaptic contacts received by the neurons of the crossed isthmotectal projection in *Rana esculenta*. **J. Brain Res.** 38, 153-164.
48. Völgyi B, Pollák E, Buzás P, Gábriel R (1997) Calretinin in neurochemically well-defined cell populations of rabbit retina. **Brain Res.** 763, 79-86.
49. Gábriel R, Völgyi B, Pollák E (1998) Calretinin-immunoreactive elements in retina and optic tectum of the frog, *Rana esculenta*. **Brain Res.** 782, 53-62.
50. Gábriel R, Pásztor I, Dénes V, Wilhelm M (1998) Some neurohistochemical properties of nerve elements in myenteric plexus of rabbit ileum: similarities and dissimilarities to the rodent pattern. **Cell Tissue Res.** 292, 283-291.
51. Wilhelm M, Báthori Z, Pásztor I, Gábriel R (1998) NADPH diaphorase positive myenteric neurons in the ileum of guinea-pig, rat, rabbit and cat: a comparative study. **Eur. J. Morphol.** 36, 143-152.

52. Akopian A, Gábríel R, Witkovsky P (1998) Calcium released from intracellular stores inhibits GABA_A-mediated currents in ganglion cells of the turtle retina. **J. Neurophysiol.** 80, 1105-1115.
53. Gábríel R, Witkovsky P (1998) Cholinergic, but not the rod-pathway-related glycinergic (AII), amacrine cells contain calretinin in the rat retina. **Neurosci. Lett.** 247, 179-182.
54. Krizaj D, Gábríel R, Owen GW, Witkovsky P (1998) Dopamine D2 receptor-mediated modulation of rod-cone coupling in the *Xenopus* retina. **J. Comp. Neurol.** 398, 529-538.
55. Pollák E, Lázár G, Gábríel R, Wang S (1999) Localization and source of GABA immunoreactivity in the isthmus nucleus of the frog *Rana esculenta*. **Brain Res. Bull.** 48, 343-350.
56. Wilhelm M, Gábríel R (1999) Functional anatomy of the photoreceptor and second-order cell mosaic in the retina of *Xenopus laevis*. **Cell Tissue Res.** 297, 35-46.
57. Gábríel R, Völgyi B, Pollák E (1999) Most calretinin-containing amacrine cells in the rabbit retina co-localize glycine. **Visual Neurosci.** 16, 983-990.
58. Akopian A, Johnson J, Gábríel R, Brecha N, Witkovsky P (2000) Somatostatin modulates voltage-gated K⁺ and Ca⁺⁺ currents in rod and cone photoreceptors in the salamander retina. **J. Neurosci.** 20, 929-936.
59. Gábríel R (2000) Calretinin is present in serotonin- and GABA-positive amacrine cell populations in the retina of *Xenopus laevis*. **Neurosci. Lett.** 285, 9-12.
60. Witkovsky P, Gábríel R, Haycock JW, Meller ME (2000) Interaction of light and neuronal circuitry in the control of tyrosine hydroxylase phosphorylation in the rat retina. **J. Chem. Neuroanat.** 19, 105-116.
61. Gábríel R, LeSauter, J., Garcia-Espana, T., Silver, R., and Witkovsky, P. (2001)

Diurnal and circadian rhythms of protein kinase C expression in rat retina. **J. Comp. Neurol.** 439, 140-150.

62. Rábl, K., Bánvölgyi, T., Gábriel, R. (2002) Electrophysiological evidence for push-pull interactions in the inner retina of turtle. **Acta Biol. Hung.** 53, 141-151.

63. Gábriel, R., De Souza, S., Ziff, EB., Witkovsky, P. (2002) Association of AMPA-receptor-related postsynaptic density proteins GRIP and ABP with subsets of glutamate-sensitive neurons in the rat retina. **J. Comp. Neurol.** 449, 129-140.

64. Rábl, K., Reglő di, D., Bánvölgyi, T., Somogyvári-Vígh, A., Lengvári, I., Gábriel, R. and Arimura, A. (2002) PACAP inhibits anoxia-induced changes in physiological responses in horizontal cells in the turtle retina. **Regul. Peptides** 109, 71-74.

65. Dénes, V., Lázár, Z., Barthó, L., Gábriel, R. (2003) Serotonin in the rabbit ileum: localization, uptake and effect on motility. **Anat. Rec.** 271A, 368-376.

66. Gábriel, R., LeSauter, J., Petrovics, G., Bánvölgyi T., Silver, R., and Witkovsky, P. (2004) All amacrine neurons of the rat retina show diurnal and circadian rhythms of parvalbumin immunoreactivity. **Cell Tissue Res.** 315, 181-186

67. Dénes V, Gábriel R (2004) Calbindin-immunopositive cells are cholinergic interneurons in the myenteric plexus of rabbit ileum. **Cell Tissue Res.** 318, 465-472

68. Tamás A, Gábriel R, Rácz B, Dénes V, Kiss P, Lubics A, Lengvári I, Reglő di D (2004) Effects of pituitary adenylate cyclase activating peptide in retinal degeneration induced by mososodium-glutamate. **Neurosci. Lett.** 372, 110-113

Conference Abstracts

1. Halasy, K., Fekete, É., Csoknya, M., Gábriel, R. and Benedeczky, I. (1987) Fine structure and cytochemical features of enteric neuromuscular junctions in lower vertebrates. 2nd World Cong. Neurosci. Budapest. **Neuroscience** 22(S): 344.

2. Halasy, K., Eckert, M., Fekete, É., Gábriel, R., Csoknya, M. and Benedeczky, I. (1988) Comparative cytochemical studies on the enteric nervous system. 11th Annu. Meeting ENA, Zürich. **Eur. J. Neurosci.** S1: 258.

3. Halasy, K., Fekete, É., Gábriel, R., Csoknya, M. and Benedeczky, I. (1989) Immunocytochemical study of GABAergic nerve elements in the enteric nervous system. 12th Annu. Meeting ENA, Turin. **Eur. J. Neurosci.** S2: 19.

4. Gábriel, R., Timmermans, J.-P., Scheuermann, D.W., Adriaensen, D. and de groodt-Lasseel, M.H.A. (1990) Structural organization of the enteric nervous system in the red-eared turtle, *Pseudemys scripta elegans*. 9th Intern. Symp. Morphol. Sci., Nancy. **Bull. Assoc. Anat.** 74: 62.
5. Scheuermann, D.W., Timmermans, J.-P., Gábriel, R., Adriaensen, D., Fekete, É. and De Groodt-lasseel, M.H.A. (1991) Distribution of neuronpeptides in the enteric nervous system of a chelonian reptile, *Pseudemys scripta elegans*. 86. Versamm. Anat. Ges., Szeged. **Anat. Anz.** 172: 315.
6. Timmermans, J.-P., Scheuermann, D.W., Gábriel, R., Adriaensen, D., Fekete, É. and De Groodt-Lasseel, M.H.A. (1991) Topographical organization of the ganglionic nerve networks in the gut wall of the red-eared turtle, *Pseudemys scripta elegans*. 86. Versamm. Anat. Ges., Szeged. **Anat. Anz.** 172: 283.
7. Straznicky, C. and Gábriel, R. (1991) Synaptic and non-synaptic associations of tyrosine hydroxylase immunoreactive elements in the retina of *Bufo marinus*. 14th Annu. Meeting ENA, Cambridge. **Eur. J. Neurosci.** S4: 44.
8. Gábriel, R. and Straznicky, C. (1991) GABA-like immunoreactivity in the retina of *Bufo marinus*: a light and electron microscopic analysis. 54th Meeting APPS, Melbourne. **Proc. Austral. Physiol. Pharmacol. Soc.** 22: 125.
9. Straznicky, C., Wilhelm, M. and Gábriel, R. (1992) MAP2-immunoreactive neurons in the retina of *Bufo marinus*: co-localization with tyrosine hydroxylase and serotonin in amacrine cells. 12th Annu. Meeting ANS, Adelaide. **Proc. Austral. Neurosci. Soc.** 3: 64.
10. Wilhelm, M., Gábriel, R. and Straznicky, C. (1992) Neuron-specific enolase immunoreactivity in the vertebrate retina: selective staining of Müller cells in anurans. 12th Annu. Meeting ANS, Adelaide. **Proc. Austral. Neurosci. Soc.** 3: 174.
11. Straznicky, C., Zhu, B. and Gábriel, R. (1992) Connexions of serotonin-immunoreactive neurons in the inner plexiform layer of the anuran retina. 15th Annu. Meeting ENA, München. **Eur. J. Neurosci.** S5: 250.
12. Gábriel, R. (1992) Synapses of GABA-containing elements with other identified structures in the inner plexiform layer of the anuran retina. 9th Int. Cong. Histochem. Cytochem. Maastricht. **Histochem. J.** 24: 583-584.
13. Gábriel, R. and Budai, D. (1992) Seasonal changes in acetylcholine level and activities of cholinergic enzymes in the alimentary tract and heart of the edible frog, *Rana esculenta* L. 9th Int. Cong. Histochem. Cytochem. Maastricht. **Histochem. J.** 24: 584.
14. Straznicky, C. and Gábriel, R. (1993) The synaptology of GABA- and glutamate-immunoreactive optic axon terminals in the tectum of *Bufo marinus*. 13th Annu. Meeting ANS, Melbourne. **Proc. Austral. Neurosci. Soc.** 4: 56.
15. Baranyai, J., Gábriel, R. and Straznicky, C. (1993) Neurochemical markers for intrinsic neurons in the toad optic tectum: distribution of MAP2 CaBP and 5HT. 16th Annu. Meeting ENA, Madrid. **Eur. J. Neurosci.** S6: 504.

16. Gábriel, R. and Straznicky C. (1993) Axo-axonic and axosomatic synapses of retinal terminals in the optic tectum of *Bufo marinus*. 16th Annu. Meeting ENA, Madrid. **Eur. J. Neurosci.** S6: 493.
17. Witkovsky, P., Gábriel, R., Krizaj, D. and Akopian, A. (1994) Feedback to cones by luminosity horizontal cells controls the depolarizing response of chromatic horizontal cells. 24th Annu. Meeting of Soc. Neurosci., Miami Beach. **Soc. Neurosci. Abstr.** 20:217.
18. Krizaj, D., Gábriel, R., Zhang, J. and Witkovsky, P. (1994) The vertical pathway in the retina is modulated by D2 dopamine receptor. 24th Annu. Meeting of Soc. Neurosci. Miami Beach. **Soc. Neurosci. Abstr.** 20:967.
19. Buzás, P. and Gábriel, R. (1995) Direct bipolar to ganglion cell synapses in the inner plexiform layer of the anuran retina. Annu. Meeting Austrian Neurosci Ass. Graz. **Abstract** P 77.
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