

Prof. dr hab. Grażyna Adamus – informacja bibliograficzna

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Degrees

1974 M.S. in Biochemistry
University of Wroclaw, Wroclaw, Poland
1978 Ph.D. in Immunochemistry
Institute of Immunology and Experimental Therapy,
Polish Academy of Sciences, Wroclaw, Poland

Professional experience

1978–1983 Research Scientist, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw, Poland.
1983–1985 Postdoctoral Research Associate, Department of Medical Biochemistry, Southern Illinois University at Carbondale, Illinois, USA
1985–1986 Research Associate, Department of Ophthalmology, University of Florida Medical School, Gainesville, Florida, USA
1986–1993 Assistant Scientist (=Assistant Professor), Department of Ophthalmology, University of Florida Medical School, Gainesville, Florida, USA
Associate Scientist, R.S. Dow Neurological Sciences Institute and Devers Eye Institute, Legacy-Good Samaritan Hospital & Medical Center Portland, Oregon, USA
1998–2000 Associate Scientist, Neurological Sciences Institute, and Assistant Professor of Ophthalmology, Oregon Health Sciences University, Portland, Oregon
1999–2007 Director of Summer Internship in Neuroscience Program, NSI, Portland, OR
2000–2007 Senior Scientist and Professor, Neurological Sciences Institute, Oregon Health & Science University, Portland, Oregon
2005–present
Director of Ocular Immunology Laboratory OHSU, Portland, OR
2007–present
Professor of Ophthalmology and Professor of Graduate Neuroscience, Department of Ophthalmology, School of Medicine, Oregon Health & Science University, Portland

Honors

- 2003 – OHSU Faculty Award for Collaboration
- 2003 – Recognition for Outstanding Contribution in Science Education
- 2004 – Honors for 10 years mentorship in the ASE program
- 2010 – Silver Fellow in the ARVO Fellow Class of 2010
- 2011 – Technology Innovation Award, Top Three Licensee Award – OHSU, 2011
- 2012 – Keynote speaker – 17th Annual American Uveitis Society Winter Symposium
- 2013 – Keynote speaker – Autoimmune Retinopathy Workshop, National Eye Institute, NIH
- 2014 – Invited speaker – International Society for Eye Research Symposium

Professional affiliations

- American Association of Immunologists (elected member)
- Association for Research in Vision and Ophthalmology
- American Association for Advancement in Science
- International Society for Neuroimmunology
- International Society for Eye Research

Study sections (Grant reviews)

- 1994 Ad hoc reviewer for NIH Study Section VisC
- 1995 Special reviewer for NIH Study Section VisC
- 1996 Ad hoc reviewer for NIH Study Section VisC
- 1999 Reviewer for DOD/VA Health Research Program
- 2000 Ad hoc reviewer for NIH Study Section VisA
- 2000 Reviewer for the Army Research Program
- 2004 Reviewer for The Lytmos Group
- 2005 Ad hoc reviewer for The Canadian Eye Foundation
- 2007 Ad hoc reviewer for the GDD NIH Study Section
- 2008–2012
Permanent member of the GDD NIH Study section
- 2010 Reviewer for The Lytmos Group
- 2010 Ad hoc reviewer for ZRG1 -BST -K - (90) NIH Study Section
- 2010 Ad hoc reviewer for ZNSI SRB-M NIH NINDS Study Section
- 2011 Ad hoc reviewer for ZRG1 -BDCN-Q NIH Study Section
- 2011 Ad hoc reviewer for ZNS1 -SRB -M NIH NINDS Study Section
- 2012 Ad hoc reviewer for ZNS1 -SRB -M NIH NINDS Study Section
- 2012 Ad hoc reviewer for DPVS study section -NIH Study Section
- 2013 Ad hoc reviewer for ZNS1 -SRB -M NIH NINDS Study Section
- 2014 Ad hoc reviewer for ZNS1 -SRB -M NIH NINDS Study Section
- 2014 Ad hoc reviewer for DPVS study section -NIH Study Section

Journal reviews

Frequent Reviewer for:

Investigative of Ophthalmology and Visual Science, Current Eye Research, Experimental Eye Research, Archives of Ophthalmology, American Journal of Ophthalmology, British Journal of Ophthalmology, Journal of Neuroscience, Journal of Immunology, Journal of Autoimmunity, Journal of Clinical Immunology, Ocular Immunology and Inflammation, Molecular Immunology, Journal Biological Chemistry, Cancer Research, Cellular and Molecular Life Sciences, Survey of Ophthalmology, Molecular Vision, Cancer Immunology and Immunotherapy Journal, BMC Neuroscience, FEMS Immunology and Medical Microbiology, JAMA, PLOS ONE, and others.

Editorial Board Member for Journal of Clinical & Experimental Ophthalmology

Publications (Peer-reviewed References)

1980–2009 number of published papers: 73

2010–2014 number of published papers: 25

1. Wang S, Lu B, Girman S, Duan J, McFarland T, Zhang Q, Grompe M, Adamus G, Appukuttan B, Lund R: Non-invasive stem cell therapy in a rat model for retinal degeneration and vascular pathology. *PLoS ONE* 2010, 5(2): e9200.
2. Kruer MC, Koch TK, Bourdette DN, Chabas D, Waubant E, Mueller S, Moscarello MA, Dalmau J, Woltjer RL, Adamus G: NMDA Receptor Encephalitis Mimicking Seronegative Neuromyelitis Optica. *Neurology* 2010, 74(18): 1473–1475.
3. Adamus G, Karren L, Mooney J, Burrows G: A Promising Therapeutic Approach for Treatment of Posterior Uveitis: Recombinant T Cell Receptor Ligand Protects Lewis rats from Acute and Recurrent Experimental Autoimmune Uveitis. *Ophthalmic Res* 2010, 44(1): 24.
4. Chan-Kai BT, Yeh S, Weleber RG, Francis PJ, Adamus G, Witherspoon SR, Lauer AK: Electroretinographic findings in transplant chorioretinopathy. *Clin Ophthalmol* 2010, 4: 777.
5. Jiang B, Harper MM, Kecova H, Adamus G, Kardon RH, Grozdanic SD, Kuehn MH: Neuroinflammation in advanced canine glaucoma. *Mol Vis* 2010, 16: 2092.
6. Raghunath A, Adamus G, Bodurka DC, Liu J, Schiffman JS: Cancer-Associated Retinopathy in Neuroendocrine Carcinoma of the Fallopian Tube. *Journal of Neuro-Ophthalmol* 2010 (3): 252.
7. Tanaka A, Takase H, Adamus G, Mochizuki M: Cancer-associated retinopathy caused by benign thymoma. *Brit J Ophthalmol* 2010, 94(4):526.
8. Wood W, Garg S, Adamus G, Gabriel D, Shea T, Serody J: Alloimmune retinopathy associated with antibodies to transducin-alpha as a complication of chronic graft-versus-host disease. *Biol Blood Marrow Transplant* 2010; 16(1):135.
9. Adamus G, Brown L, Schiffman J, Iannaccone A: Diversity in autoimmunity against retinal, neuronal, and axonal antigens in acquired neuro-retinopathy, *J Ophthalm Inflamm Infect* 2011, 1: 111–121.
10. Kondo M, Sanuki R, Ueno S, Nishizawa Y, Hashimoto N, Ohguro H, Yamamoto S, Machida S, Terasaki H, Adamus G, Furukawa T: Identification of Autoantibodies against TRPM1 in Patients with Paraneoplastic Retinopathy Associated with ON Bipolar Cell Dysfunction, *PLoS ONE* 2011, 6:e19911.
11. Mets RB, Golchet P, Adamus G, Anitori R, Wilson D, Shaw J, Jampol LM: Bilateral Diffuse

- Uveal Melanocytic Proliferation With a Positive Ophthalmoscopic and Visual Response to Plasmapheresis, *Arch Ophthalmol* 2011, 129: 1235–1238.
12. Wu X, Rosenbaum JT, Adamus G, Zhang GL, Duan J, Weinberg A, Zhang Z: Activation of OX40 Prolongs and Exacerbates Autoimmune Experimental Uveitis, *Invest Ophthalmol Vis Sci* 2011, 52:8520–8526.
 13. Abazari A, Allam SS, Adamus G, Ghazi NG: Optical Coherence Tomography Findings in Autoimmune Retinopathy, *Am J Ophthalmol* 2012, 153,750–756.
 14. Aronow M, Adamus G, Wang Y, Chan CC, and Arun D: Paraneoplastic Vitelliform Retinopathy: Clinicopathologic Correlation and Review of the Literature, *Surv Ophthalmol* 2012, 57, 558–564.
 15. Carboni, G, Forma G, Bond AD, Adamus G, Iannaccone A: Bilateral paraneoplastic optic neuropathy and unilateral retinal compromise in association with prostate cancer: A differential diagnostic challenge in a patient with unexplained visual loss. *Doc Ophthalmol* 2012, 125, 63–70.
 16. Adamus, G., Wang, S., Kyger, M., Worley, A., Lu, B., Burrows, G.G.: Systemic Immunotherapy Delays Photoreceptor Cell Loss and Prevents Vascular Pathology in RCS Rats. *Mol Vis* 2012, 18, 2323–2337.
 17. Adamus, G., Brown, L., Andrew, S., Meza-Romero, R., Burrows, G.G., Vandenbark, A.A.: Neuroprotective Effects of Recombinant T-Cell Receptor Ligand In Autoimmune Optic Neuritis In HLA-DR2 Mice”. *Invest Ophthalmol Vis Sci* 2012, 53, 406–412.
 18. Kyger, M., Worley, A., Adamus, G.: Autoimmune responses against photoreceptor antigens during retinal degeneration and their role in macrophage recruitment into retinas of RCS rats. *J Neuroimmunol* 2013, 254, 91–100.
 19. Kyger, M., Worley, A., Huan, J., McDowell, H., Smith, W.C., Burrows, G.G., Mattapallil, M.J., Caspi, R.R., Adamus, G., Effective Arrestin-Specific Immunotherapy of Experimental Autoimmune Uveitis with RTL: A Prospect for Treatment of Human Uveitis. *Translational Vision Science & Technology* 2013, 2, 1.
 20. Xiong W-H, Duvoisin R, Adamus G, Jeffrey B, Gellman C, Morgans C.: Serum TRPM1 autoantibodies from melanoma associated retinopathy patients enter retinal on-bipolar cells and attenuate the electroretinogram in mice. *PLoS One*. 2013, 8(8).
 21. Adamus G, L Brown, R Bonnah, and L David.: Detection of autoantibodies against heat shock proteins and collapsin response mediator proteins in autoimmune retinopathy. *BMC Ophthalmology*. 2013, 13(1): 48.
 22. Adamus G, D Choi, and J Schiffman: Significance of Anti-Retinal Autoantibodies in Cancer-Associate Retinopathy with Gynecological Cancers. *J Clin Exp Ophthalmol* 2013, 4(6) 307.
 23. Adamus G, Chew E, Ferris F, Klein M. Prevalence of anti-retinal autoantibodies in different stages of Age-related macular degeneration. *BMC Ophthalmol*. 2014; 14(1): 154.
 24. EHC van Dijk, CML. van Herpen, M Marinkovic, JBAG. Haanen, D Amundson, GPM. Luyten, MJ Jager, EHW Kapiteijn, JEE Keunen, G Adamus, CJF Boon: Serous retinopathy associated with MEK inhibition (binimetinib) for metastatic cutaneous and uveal melanoma. in review.
 25. B Lu, Y Lin, Y Tsai, S Girman, G Adamus, MK Jones, B Shelley, C Svendsen, S Wang: A subsequent human neural progenitor transplant into the degenerate retina does not compromise initial graft survival or therapeutic efficacy. *Translational Vision Science & Technology*, in review.

Book chapters

1. Adamus, G, A. Arendt, P.A. Hargrave, R. Jackson, J.H. McDowell, A. Szary, H.E. Hamm: "Use of synthetic peptides to evaluate cross-reactivity of monoclonal antibodies raised against frog rhodopsin." "Peptides: Structure and Function", (Eds. C.M. Deber, V.J. Hruby and K.D. Kopple), 1985, Pierce Chem. Co., p. 55–58.
2. Adamus, G., J.H. McDowell, A. Arendt, P.A. Hargrave, E. Smyk-Randall, J. Sheehan: "Structure, function and topography of rhodopsin as determined using monoclonal antibodies." In *Biophysical Studies of Retinal Proteins*, eds. T.G. Ebrey, H. Fraunfelder, B. Honing and K. Nakanishi, 1987, p. 86-94. University of Illinois Press, Urbana, IL.
3. McDowell, J.H., E. Smyk-Randall, J. Sheehan, A. Szary, R.W. Jackson, G. Adamus, P.A. Hargrave: "Use of monoclonal antibodies to study rhodopsin's topography and function." In *Membrane Proteins*, ed. S.C. Goheen, BioRad Laboratories, 1987, p. 71–80.
4. Hargrave, P.A., K. Palczewski, A. Arendt, G. Adamus, J.H. McDowell: "Rhodopsin and its kinase." In *Molecular Biology of the Eye: Genes, Vision and Ocular Disease*, A.R. Liss, Inc., 1988, p. 34–44.
5. Adamus, G.: "Immunological measurement of rhodopsin". In *Methods of Neurosciences*, 1993, Vol.15 (ed. P.A. Hargrave), p. 151–160.
6. Adamus, G., B. Sugden, M. Manczak, A. Arendt, P.A. Hargrave. "Pathogenicity Of Myelin Basic Protein In Anterior Uveitis" In: *New Insights Into Retinal Degenerative Diseases*. Ed. Anderson Kluwer Academic/Plenum Publishers. 2001, p. 217–222.
7. Adamus, G. "The Role of Recoverin in Autoimmunity" In "Neuronal Calcium Sensor Proteins" Eds. Philippov and Koch; 2006; p. 181–199.
8. Adamus, G. "Paraneoplastic Retinal Degeneration" in *Ocular Disease: Mechanisms and Management*, Ed. Levin, LA, and Albert, DM, 2010, p. 599–606.

Editorials and Commentaries

1. Adamus, G: "Antirecoverin antibodies and autoimmune retinopathy". *Arch Ophthalmol*. 2000; 118: 1577–8.
2. Adamus, G. and Wilson, D.J. The Need for Standardization of Antiretinal Antibody Detection and Measurement. *Am J Ophthalmol* 2009, 147, 557.
3. Adamus G: "Is zonal occult outer retinopathy an autoimmune disease?" *J. Clin Experim Ophthalmol* 2011, 2:9.
4. Adamus,G, D. Wilson, "Letter to the Editor: Detection of Anti-Retinal Autoantibodies in Serum by Western Blotting" Accepted to *JAMA Ophthalmol*. 2013, 31(10):1371–1371.
5. Adamus G. Mitochondrial Heat Shock Protein 70: New Target for Optic Neuritis Therapy. *Invest Ophthalmol Vis Sci*, 2014; 55(8):5227.

Reviews (Peer-reviewed)

1. Adamus G, "Autoantibody-induced apoptosis as a possible mechanism of autoimmune retinopathy". *Autoimmun Rev*. 2003; 2(2):63–8.
2. Becker MD, Adamus G, Davey MP, Rosenbaum JT. "The role of T cells in autoimmune uveitis". *Ocul Immunol Inflamm*. 2000; 8(2):93–100.
3. Adamus G, Chan CC. "Experimental autoimmune uveitides: multiple antigens, diverse diseases". *Int Rev Immunol*. 2002; 21(2-3):209–29.
4. Adamus, G. "Autoantibody Targets and their Cancer Relationship in the Pathogenicity of Paraneoplastic Retinopathy". *Autoimmun Rev*. 2009, 8: 410–414.
5. Adamus, G: "Latest Updates on Anti-Retinal Autoantibodies Associated with Vision Loss and Breast Cancer". 2014 in review