



Curriculum vitae

1. DONNÉES PERSONNELLES:

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| Nom, prénom, sexe | Prof. Dr. med. Thumann, Gabriele, féminine |
| Date et lieu de naissance | 26 Octobre 1966, Hambourg, Allemagne |
| Nationalité | Allemande |
| État civil, nombre d'enfants | Mariée, deux enfants (15 et 17 ans) |
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| Adresse, tél., fax, email professionnels | Département des Neurosciences Cliniques, Service d'Ophtalmologie Hôpitaux Universitaires de Genève 22, rue Alcide-Jentzer, CH-1211 Genève 14 +41-22-372 83 94 (Mme Laurence Koenig) |
| Langues parlées/écrites | Français, anglais, allemand (langue maternelle) |

2. POSITION ACTUELLE:

Chef de Service depuis juillet 2015
Département des Neurosciences Cliniques,
Service d'Ophtalmologie
Hôpitaux Universitaires de Genève

3. DIPLÔMES OBTENUS:

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| 1994 | Approbation médecine, Cologne, Allemagne |
| 1994 | Thèse de doctorat : Chirurgie hépatique de l'enfant, Cologne, Allemagne |
| 1997 | Spécialiste en ophtalmologie, Düsseldorf, Allemagne |
| 2001 | Habilitation: « Transplantation of iris pigment epithelial cells to substitute for retinal pigment epithelial cells in age related macular degeneration. » Cologne, Allemagne |
| 2007 | Nomination au rang de professeure des RWTH Aachen University, Allemagne |
| 2012 | Nomination à la fonction professeur ordinaire de la faculté de médecine, Université de Genève, Suisse |
| 2012 | Reconnaissance du diplôme de médecin en Suisse, Berne |
| 2012 | Reconnaissance du titre post-grade fédérale correspondant: Médecin spécialiste en ophtalmologie en Suisse, Berne. |
| 2014 | Diplôme post-grade: Spécialiste en ophtalmologie, spécialiste en ophtalmochirurgie (reconnaissance en Suisse, Berne) |

4. FORMATIONS DEPUIS LA MATURITÉ (PRÉ-GRADUÉES):

- 1985-1989 Etudes de médecine à l'Université de Cologne, Allemagne
1989-1990 Etudes de médecine à l'Université Paris XIII, France
1990-1991 Etudes de médecine à l'Université de Cologne, Allemagne
1991-1992 Stages : New York University, Etats-Unis (médecine interne)
Université Paris V/VI, France (chirurgie/ophtalmologie)

5. ACTIVITÉS PROFESSIONNELLES (POST-GRADUÉES) :

- 1992-1997 Interne : Centre d'Ophtalmologie, Université de Cologne, Allemagne (Directeur : Prof. Dr. med. G.K. Krieglstein)
1997-1999 Boursière de la Deutsche Forschungsgemeinschaft (DFG)
Bourse de la recherche à l'University of Southern California, Doheny Eye Institute, Los Angeles, Etats-Unis (Prof. Dr. S.J. Ryan)
1999-2001 Boursière de l'habilitation de la DFG, Université de Cologne, Allemagne
2001-2002 Spécialiste Centre d'Ophtalmologie, Université de Cologne, Allemagne (Directeur : Prof. Dr. med. G.K. Krieglstein)
2003-2006 Cheffe de clinique, Service du Segment Postérieur, Centre d'Ophtalmologie, Université de Cologne, Allemagne (Directeur : Prof. Dr. med. B. Kirchhof)
2004-2006 Suppléante du Directeur du Service du Segment Postérieur, Prof. Dr. B. Kirchhof
2006-2012 Médecin adjointe et Suppléante du Chef de Service, Département d'Ophtalmologie, RWTH Aachen University, Allemagne (Prof. Dr. med. P. Walter)
2009-2012 Professeur de faculté de médecine, Département d'Ophtalmologie, l'Unité Ophtalmologie Expérimentale, RWTH Aachen University, Allemagne
2006-2012 Chef de groupe de recherche, Centre interdisciplinaire de la recherche clinique (IZKF Aachen), RWTH Aachen University, Allemagne
2007-2012 Responsable de l'espace central de la recherche, Centre interdisciplinaire de la recherche clinique (IZKF Aachen), RWTH Aachen University, Allemagne
2012 Médecin adjoint agrégé, Responsable d'Unité de Rétine, Service d'Ophtalmologie, Hôpitaux Universitaires de Genève, Suisse
2012 Professeure ordinaire de l'Université de Genève, Suisse
2013 Suppléante du Chef de Service, Service d'Ophtalmologie, Hôpitaux Universitaires de Genève, Suisse
Sep 2014 Chef de Service ad interim, Service d'Ophtalmologie, Hôpitaux Universitaires de Genève, Suisse

6. DISTINCTIONS :

- Avr 2008 Nomination Directeur du Service d'Ophtalmologie de l'Hôpital PIUS, Université de Goettingen (renoncé en aout 2008)
Oct 2008 Nomination Professeur ordinaire pour l'Ophtalmologie Expérimentale à RWTH Aachen University (accepté en mars 2009)
Nov 2010 2^{ème} rang dans la procédure de nomination professeur ordinaire et Chef de Service d'Ophtalmologie de l'Université de Düsseldorf, Allemagne
Aout 2013 Nomination Professeur ordinaire et Chef de Service d'Ophtalmologie de l'Université de Würzburg, primo unico loco (renoncé en janvier 2014)

7. SOCIÉTÉS :

Société d'Ophtalmologie Allemande, Association of Research and Vision in Ophthalmology, Société d'Ophtalmologie de la région Nordrhein-Westfalen, Club Jules Gonin, Société Rétinienne Allemande, Société ophtalmologique française, Société ophtalmologique suisse

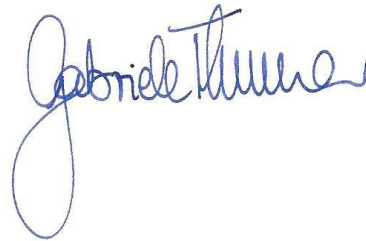
8. FONCTIONS OFFICIELLES :

Conseiller scientifique: BBraun, Etats-Unis: Rheophoresis in AMD; Cell Cure Neurosci. Ltd, Israel: Human embryonic stem cell transplantation; DSM Biomedical; Expert pour la commission européenne

9. FONCTIONS OFFICIELLES :

Expert scientifique: Acta Ophthalmol Scand, Ann Anat, Biomaterials, Br J of Ophthalmol, Clin Ophthalmol, Cur Eye Res, Graefe Clin Exp Ophthalmol, Invest Ophthalmol Vis Sci, Ophthalm Res, Langmuir, Progress in Retinal and Eye Res

DATE ET SIGNATURE : 27 janvier 2016



Liste de publications

| | |
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| Nombre total des articles (selon Web of Science) | 131 |
| Nombre total de citations sans auto-citations | 1190 |
| H Index | 21 |

Vous pouvez voir les abstraits en ligne à *PubMed* et *Web of Science* :

<http://www.ncbi.nlm.nih.gov/pubmed/?term=thumann+g>
https://apps.webofknowledge.com/Search.do?product=UA&SID=Y29c9nNCh3UIMFIYJca&search_mode=GeneralSearch&prID=2dcdd82e-0abe-4c84-bc7b-91c0873ffcfc

Journaux à politique éditoriale

Geruschat DR, Richards TP, Arditi A, da Cruz L, Dagnelie G, Dorn JD, Duncan JL, Ho AC, Olmos de Koo LC, Sahel JA, Stanga PE, Thumann G, Wang V, Greenberg RJ. An analysis of observer-rated functional vision in patients implanted with the Argus II Retinal Prosthesis System at three years. *Clin Exp Optom*. 2016 Jan 24. [Epub ahead of print]

Johnen S, Djalali-Talab Y, Kazanskaya O, Möller T, Harmening N, Kropp M, Izsvák Z, Walter P, Thumann G. Antiangiogenic and Neurogenic Activities of Sleeping Beauty-Mediated PEDF-Transfected RPE Cells In Vitro and In Vivo. *Biomed Res Int*. 2015;2015:863845. Epub 2015 Dec 1. (IF 1.579)

Consigli A, Roquelaure D, Souteyrand G, Chizzolini C, Thumann G, Chronopoulos A. Diagnostic Dilemma in Sequential Branch Retinal Vein and Artery Occlusion. *Optom Vis Sci*. 2015 Nov;92(11):e404-8. (IF 1.603)

Mittal R, Thumann G, Souteyrand G, Kuerten D, Coupland SE. Retinochoroidal toxoplasmosis in a patient with cerebral post-transplant lymphoproliferative disease of Hodgkin's type: a diagnostic challenge. *Journal of Ophthalmic Inflammation and Infection*. 2015 Aug 5:23

- Kuerten D, Johnen S, Harmening N, Souteyrand G, Walter P, Thumann G: Transplantation of PEDF-transfected pigment epithelial cells inhibits corneal neovascularization in a rabbit model. *Graefes Arch Clin Exp Ophthalmol* 2015; [epub ahead of print] (IF 2.333)
- Thumann G, Perdikomati-Dahmen M, Izsvak Z, Ivics Z, Layana AG, Ronchetti M, Petrovski G, Scherman D, Aranda P, Pouillot S, Binder S, Johnen S, Van den Berg J (TargetAMD Consortium). Transposon-Based, Targeted Ex Vivo Gene Therapy to Treat Age-Related Macular Degeneration (TargetAMD). *Human Gene Therapy Clinical Development* 2015 Juni 1;26(2):97-100
- Chronopoulos A, Varga Z, Steinfeld PA, Dahlmann R, Jukic T, Walter P, Thumann G. Unusual IOL Calcification following Vitreoretinal Surgery with Silicone Oil Endotamponade. *Klin Monbl Augenheilkd.* 2014 Nov 13. [Epub ahead of print] (IF 0.665)
- Kropp M, Morawa KM, Mihov G, Salz AK, Harmening N, Franken A, Kemp A, Dias AA, Thies J, Johnen S, Thumann G. Biocompatibility of Poly(ester amide) (PEA) Microfibrils in Ocular Tissues. *POLYMERS* 2014, 6(1): 243-260. (IF 2.505)
- Chronopoulos A, Lipski A, Jonescu-Cuypers CP, Thumann G. Unusual bilateral traumatic maculopathy following whiplash injury. *BMJ Case Rep.* 2014 Nov 20;2014
- Biswas S, Haselier C, Mataruga A, Thumann G, Walter P, Müller F. Pharmacological analysis of intrinsic neuronal oscillations in rd10 retina. *PLoS One.* 2014 Jun 11;9(6):e99075 (IF 3.534)
- García-Layana A, Thumann G, Groll J. Age macular degeneration: etiology, prevention, individualized therapies, cell therapy, and tissue engineering. *J Ophthalmol.* 2014;2014:287893 (IF 1.935)
- Fernández-Robredo P, Sancho A, Johnen S, Recalde S, Gama N, Thumann G, Groll J, García-Layana Current treatment limitations in age-related macular degeneration and future approaches based on cell therapy and tissue engineering. *J Ophthalmol.* 2014;2014:510285. (IF 1.935)
- Waschkowski F, Hesse S, Rieck AC, Lohmann T, Brockmann C, Laube T, Bornfeld N, Thumann G, Walter P, Mokwa W, Johnen S, Roessler G. Development of very large electrode arrays for epiretinal stimulation (VLARS). *Biomed Eng Online.* 2014 Feb 6;13(1):11 (IF 1.750)
- Panos GD, Gatziofias Z, Petropoulos IK, Dardabounis D, Thumann G, Hafezi F. Effect of ranibizumab on serous and vascular pigment epithelial detachments associated with exudative age-related macular degeneration. *Drug Des Devel Ther.* 2013 Jul 10;7:565-9. (IF 3.026)
- Thumann G. Prospectives for gene therapy of retinal degenerations. *Curr Genomics.* 2012 Aug;13(5): 350-62 (IF 2.868)
- Koutsonas A, Carstesen D, Henkel C, Walter P, Thumann G, Weinberger AW. Effects of coagulation on the autofluorescence pattern of ARPE-19 cells: an in vitro study. *Ophthalmic Res.* 2013;49(1):11-9 (IF 1.376)
- Johnen S, Izsvák Z, Stöcker M, Harmening N, Salz AK, Walter P, Thumann G. Sleeping Beauty transposon-mediated transfection of retinal and iris pigment epithelial cells. *Invest Ophthalmol Vis Sci.* 2012;18;53(8):4787-96 (IF 3.661)
- Johnen S, Kazanskaya O, Armogan N, Stickelmann C, Stöcker M, Walter P, Thumann G. Endogenous regulation of proliferation and zinc transporters by pigment epithelial cells nonvirally transfected with PEDF. *Invest Ophthalmol Vis Sci.* 2011 Jul 23;52(8):5400-7. (IF 3.661)
- Jöres AP, Carstesen D, Thumann G, Walter P, Weinberger AW. Detection of heat shock protein 70 in choroidal neovascular membranes secondary to age related macular degeneration. *BMC Res Notes.* 2011 Apr 8;4:115.
- Thumann G. Nonviral gene therapy for age-related macular degeneration. *Expert Review of Ophthalmology* 2011; 6: 81-93
- Buzard K, Zhang JR, Thumann G, Stripecke R, Sunalp M. Two cases of toxic anterior segment syndrome from generic trypan blue. *J Cataract Refract Surg.* 2010;36:2195-9. (IF 2.552)
- Johnen S, Wickert L, Meier M, Salz AK, Walter P, Thumann G: Presence of xenogenic mouse RNA in RPE and IPE cells cultured on mitotically inhibited 3T3 fibroblasts. *Invest Ophthalmol Vis Sci.* 2011; 52:2871-24. (IF 3.661)
- Thumann G, Gaebler A, Vehr AK, Walter P, Mazinani B. Postoperative Fulminante Endophthalmitis by *Streptococcus pneumoniae*. *Klin Monbl Augenheilkd* 2011;228(12):1108-09 (IF 0.665)
- Thumann G, Stöcker M, Maltusch C, Salz AK, Barth S, Walter P, Johnen S. High efficiency non-viral transfection of retinal and iris pigment epithelial cells with pigment epithelium-derived factor. *Gene Therapy* 2010;17:181-9. (IF 4.196)
- Thumann G, Salz AK, Walter P, Johnen S. Preservation of photoreceptors in dystrophic RCS rats following allo- and xenotransplantation of IPE cells. *Graefe's Arch Clin Exp Ophthalmol* 2009 Mar;247(3):363-9. (IF 2.333)
- Jukić T, Katusic D, Kordić R, Cacić M, Braunschweig T, Thumann G. Malignant melanoma of the cornea after blunt trauma. *Ophthalmologie.* 2009;106: 625-7. (IF 0.719)
- Thumann G, Viethen A, Gaebler A, Walter P, Kaempf S, Johnen S, Salz AK. The in vitro and in vivo behaviour of retinal pigment epithelial cells cultured on ultrathin membranes. *Biomaterials* 2009; 30:287- 94. (IF 8.312)

- Kaempf S, Johnen S, Salz A, Walter P, Thumann G. Effects of Bevacizumab (Avastin) on retinal cells in organotypic culture. *Invest Ophthalmol Vis Sci* 2008;49: 3164-3171. (IF 3.661)
- Mennel S, Meyer CH, Schmidt JC, Kaempf S, Thumann G. Trityl dyes patent blue V and brilliant blue G - clinical relevance and in vitro analysis of the function of the outer blood-retinal barrier. *Dev Ophthalmol.* 2008; 42:101-14.
- Thumann G, Walter P. Non-Pharmacological Interventional Perspectives in AMD. *Klin Monbl Augenheilkd.* 2008;225:699-702. (IF 0.665)
- Kaempf S, Walter P, Salz A, Thumann G. Novel organotypic culture model of adult mammalian neurosensory retina in co-culture with retinal pigment epithelium. *J Neurosci Meth* 2008;173:47-58. (IF 1.959)
- Aisenbrey S, Bartz-Schmidt KU, Walter P, Hilgers RD, Ayertey H, Szurman P, Thumann G. Long-term follow-up of Macular Translocation With 360° Retinotomy For Exudative Age-Related Macular Degeneration. *Arch Ophthalmol* 2007; 125:1367-1372 (IF 4.488)
- Weinberger AWA, Thiel M, Mohammadi B, Theofylaktopoulos I, Thumann G, Walter P. Retinal pigment epithelium tears (RIP) after intravitreal bevacizumab in pigment epithelium detachment (PED). *Am J Ophthalmol* 2007 Aug;144(2):294-6 (IF 4.021)
- Szurman P, Roters S, Grisanti S, Aisenbrey S, Schraermeyer U, Luke M, Bartz-Schmidt KU, Thumann G. Ultrastructural changes following artificial retinal detachment with modified retinal adhesion. *Invest Ophthalmol Vis Sci.* 2006; 47:4983-4989. (IF 3.661)
- Thumann G, Hueber A, Dinslage S, Schaefer F, Yasukawa T, Kirchhof B, Yafai Y, Eichler W, Bringmann A, Wiedemann P. Characteristics of Iris and Retinal Pigment Epithelial cells cultured on collagen type I membranes. *Curr Eye Res* 2006; 31:241-249. (IF 1.663)
- Dinslage S, Jordan JF, Roessler G, Esser J, Omran M, Thumann G, Wyen C, Hoppe T, Wöhrmann A, Dietlein T, Kriegstein GK. Bilateral anterior panuveitis as early manifestation of syphilis in a patient with HIV infection. *Klin Monbl Augenheilkd.* 2006 Jun;223(6):538-41. (IF 0.665)
- Aisenbrey S, Lafaut BA, Szurman P, Hilgers RD, Esser P, Walter P, Bartz-Schmidt KU, Thumann G. Iris pigment epithelium translocation in the treatment of exudative macular degeneration: A three year follow-up. *Arch Ophthalmol* 2006;124:183-188. (IF 4.488)
- Mennel S, Thumann G, Peter S, Meyer CH, Kroll P. Influence of vital dyes on the function of outer blood-retinal barrier in vitro. *Klin Monatsbl Augenheilk* 2006;223:568-576. (IF 0.665)
- Thumann G, Aisenbrey S, Schaefer S, Bartz-Schmidt KU: Instrumentation And Technique For Delivery Of Tissue Explants To The Subretinal Space. *Ophthalmologica* 2006;220:170-173. (IF 1.867)
- Mennel S, Peter S, Meye, CH, Kirchhof B, Thumann G. Effect of Photodynamic Therapy on the Function of the Outer Blood-Retinal Barrier in an In Vitro Model. *Graefe's Arch Clin Exp Ophthalmol* 2006; 244:1015-1021.
- Landwehr S, Kiencke P, Giesecke T, Eggert D, Thumann G, Kampe S. A comparison between IV paracetamol and IV metamizol for postoperative analgesia after retinal surgery. *Curr Med Res Opin* 2005; 21,10: 1569-1575.
- Thumann G, Kirchhof B. Transplantation of iris pigment epithelium. *Ophthalmologe.* 2004;101:882-5. 33.
- Abdel-Meguid A, Lappas A, Hartmann K, Auer F, Schrage N, Thumann G, Kirchhof B. One year follow-up of Macular translocation with 360-degree Retinotomy in patients with Age Related Macular Degeneration. *Br J Ophthalmol* 2003; 87:615-621.
- Roters S, Hamzei P, Szurman P, Hermes S, Thumann G, Bartz-Schmidt KU, Kirchhof B. Combined penetrating keratoplasty and vitreoretinal surgery with Silicone oil: a 1 year follow up. *Graefe's Arch Clin Exp Ophthalmol* 2003; 241:24-33.
- Thumann G. Potential of pigment epithelium transplantation in the treatment of AMD. *Graefes Arch Clin Exp Ophthalmol.* 2002 Sep;240(9):695-7.
- Kayatz P, Thumann G, Schraermeyer U. Ultrastructural localization of light induced peroxids. *Meth Enzymol* 2002, 352:378-391.
- Roters S, Szurman P, Hermes S, Thumann G, Bartz-Schmidt KU, Kirchhof B. Outcome of combined penetrating keratoplasty and vitreoretinal surgery for management of severe ocular injuries. *Retina* 2003; 23:48-56.
- Kociok K, Hueber A, Esser P, Schraermeyer U, Thumann G, Luther TT, Jordan J, Welsandt G, Kirchhof B. Vitreous treatment of cultured human RPE cells results in differential expression of ten new genes. *Invest Ophthalmol Vis Sci* 2002 ; 43:2474-2480.
- Aisenbrey S, Lafaut BA, Walter P, Szurman P, Grisanti S, Lücke C, Neugebauer A, Fricke J, Thumann G, Hilgers RD, Bartz-Schmidt KU. Macular translocation with 360° retinotomy for exudative age-related macular degeneration. *Arch Ophthalmol* 2002; 120: 451-459.
- Thumann G. Development and cellular function of the iris pigment epithelium. *Surv Ophthalmol* 2001; 45: 345-354.

- Schraermeyer U, Thumann G, Luther T, Kociok N, Arnhold S, Kruttwig K, Andressen C, Addicks K, Bartz-Schmidt KU. Subretinally transplanted embryonic stem cells rescue photoreceptor cells from degeneration in the in RCS rats. *Cell Transplantation* 2001;10:673-680.
- Kayatz P, Thumann G, Luther TT, Jordan JF, Bartz-Schmidt KU, Esser P, Schraermeyer U. Oxidation causes melanin fluorescence. *Invest Ophthalmol Vis Sci* 2001;42: 241-246.
- Schraermeyer U, Kayatz P, Thumann G, Luther TT, Szurman P, Kociok N, Bartz-Schmidt KU. Transplantation of iris pigment epithelium into the choroid slows down the degeneration of photoreceptors in the RCS rat. *Graefe's Arch Clin Exp Ophthalmol* 2000;238: 979-984.
- Thumann G, Aisenbrey S, Schraermeyer U, Lafaut B, Esser P, Walter P, Bartz-Schmidt KU. Transplantation of autologous Iris Pigment epithelium after removal of choroidal neovascular membranes. *Arch Ophthalmol* 2000;118: 1350-1355.
- Thumann G, Kociok N, Bartz-Schmidt KU, Esser P, Heimann K, Schraermeyer U. Detection of mRNA for proteins involved in retinol metabolism in Iris Pigment Epithelium. *Graefe's Arch Clin Exp Ophthalmol* 1999;237: 1046-1051.
- Bartz-Schmidt KU, Thumann G, Psichias A, Krieglstein G, Heimann K. Pars plana vitrectomy, endolaser coagulation of the retina and the ciliary body combined with silicone oil endotamponade in the treatment of uncontrolled neovascular glaucoma. *Graefe's Arch Clin Exp Ophthalmol* 1999;237: 969-975.
- Cui JC, Kimura H, Spee C, Thumann G, Hinton DR, Ryan SJ. Natural History of Choroidal Neovascularization Induced by VEGF in the Primate. *Graefe's Arch Clin Exp Ophthalmol* 2000;238: 326-333.
- Thumann G, Bartz-Schmidt KU, Kociok N, Heimann K, Schraermeyer U. Ultimate Fate of rod outer segments in the retinal pigment epithelium. *Pigment Cell Res* 1999;12: 311-315.
- Thumann G, Bartz-Schmidt KU, Kociok N, Kayatz P, Heimann K, Schraermeyer U. Retinal damage by light in the golden hamster: an ultrastructural study in the retinal pigment epithelium and Bruch's membrane. *J Photochem Photobiol* 1999;49: 104-111.
- Lüke C, Bartz-Schmidt KU, Walter P, Thumann G, Brunner R, Michel O, Sickel W. Effects of Etoposide (VP16) on vertebrate retinal function. *J Toxicol-Cutan Ocul Toxicol* 1999;18: 23-32. [IF 0.638]
- Psichias A, Bartz-Schmidt KU, Thumann G, Krieglstein G, Heimann K. Vitreoretinal surgery in the treatment of neovascular glaucoma. *Klin Monatsbl Augenheilk* 1999;214: 61-70.
- Thumann G, Bartz-Schmidt KU, El Bakri H, Schraermeyer U, Spee C, Cui JZ, Hinton DR, Ryan SJ, Heimann K. Transplantation of autologous iris pigment epithelium to the subretinal space in rabbits. *Transplantation* 1999; 68: 195-201.
- Bartz-Schmidt KU, Thumann G, Jonescu-Cuypers CP, Krieglstein GK. Quantitative morphologic and functional evaluation of the optic nerve head in chronic open-angle glaucoma. *Surv Ophthalmol* 1999;44: 41-53.
- Jonescu-Cuypers CP, Thumann G, Hilgers RD, Bartz-Schmidt KU, Krott R, Krieglstein GK. Long-term fluctuation of the normalised rim/disc area ratio quotient in normal eyes. *Graefe's Arch Clin Exp Ophthalmol* 1999;237: 181-186.
- Schraermeyer U, Peters S, Thumann G, Kociok N, Heimann K. Melanin granules of retinal pigment epithelium are connected with the lysosomal degradation pathway. *Exp Eye Res* 1999;68: 237-245.
- Kociok N, Heppekausen H, Schraermeyer U, Esser P, Thumann G, Grisanti S, Heimann K. The mRNA Expression of Cytokines and their receptors in cultured iris pigment epithelial cells: A Comparison with retinal pigment epithelial cells. *Exp Eye Res* 1998;67: 237-250.
- Thumann G, Bartz-Schmidt KU, Heimann K, Schraermeyer U. Phagocytosis of rod outer segments by human iris pigment epithelial cells in vitro. *Graefe's Arch Clin Exp Ophthalmol* 1998;236: 753-757.
- Thumann G, Bartz-Schmidt KU, Esser P, Walter P, Kirchhof B, Brunner R, Heimann K. Vitrectomy in treatment of eyes with complicated uveitis. *Klin Monatsbl Augenheilk* 1997;211: 241-244.
- Thumann G, Bartz-Schmidt KU, Kirchhof B, Heimann K. Branch retinal artery occlusion by diathermy of a persistent hyaloid artery. *Am J Ophthalmol*. 1997;124:415-6.
- Thumann G, Bartz-Schmidt KU, Schraermeyer U, Heimann K. Descemet's membrane as autologous membranous support in RPE/IPE transplantation. *Curr Eye Res* 1997;16: 1236-1238.
- Esser P, Heimann K, Bartz-Schmidt KU, Fontana A, Thumann G, Weller M. Apoptosis in proliferative vitreoretinal disorders. Possible involvement of TGF- β -induced RPE cell apoptosis. *Exp Eye Res* 1997; 65: 365-378.
- Thumann G, Kirchhof B, Bartz-Schmidt KU, Jonescu-Cuypers CP, Esser P, Konen W, Heimann K. The artificial Iris Diaphragm for vitreoretinal silicone oil surgery. *Retina* 1997;17: 330-337.
- Thumann G, Baum UE, Bartz-Schmidt KU, Lanfermann H, Landwehr P, Esser P, Konen W. Risks and therapy options in dural artery and the cavernous sinus. *Klin Monatsbl Augenheilk* 1996; 208: 10-13.
- Bartz-Schmidt KU, Jonescu-Cuypers CP, Thumann G, Frucht J, Sengersdorf A, Hilgers RD, Krieglstein GK. The normalized rim/disc area ratio line. *Int Ophthalmol* 1996;19: 331-335.

Bartz-Schmidt KU, Jonescu-Cuyppers CP, Thumann G, Frucht J, Krieglstein GK. Effect of the contour line on cup surface using the Heidelberg Retina Tomograph. *Klin Monatsbl Augenheilk* 1996;208: 292-297.

Journaux sans politique éditoriale

- Kropp M, Thumann G. Gentherapie zur Behandlung der nAMD: das TargetAMD-Projekt. *Der Augenspiegel* 01/2016; 50-52
- Thumann G. Tissue engineering von Zellverbänden. *Der Augenspiegel*, 01/2009; 32-33.
- Thumann G. Warum lernen deutsche Ärzte schwedisch; *Forschung & Lehre* 12/2008
- Thumann G. Perspektiven der Zelltransplantation für die Behandlung der AMD. *Der Augenspiegel*, 5/07; 24-6.
- Thumann G, Bartz-Schmidt KU. Verletzungschirurgie des menschlichen Auges. *Deutsches Ärzteblatt*; 2004;101: 2051-2054.
- Thumann G, Aisenbrey S, Walter P, Bartz-Schmidt KU. Aktueller Stand der Iris Pigment Epithel Transplantation. *Spektrum der Augenheilkd* 2004; 18/1:42-45.

Livres / theses / abstracts

- Dobias A, Marie C, Scherman D, Izsvak Z, Ivics Z, Walter P, Thumann G, Johnen S. Analysis of Potential Tumorigenicity of PEDF-Transfected Primary Human Retinal Pigment Epithelial Cells Using Soft Agar Assay. *Investigative Ophthalmology & Visual Science* 2015 Jun; 56(7):2316. Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology (ARVO) MAY 03-07, 2015
- Harmening N, Kropp M, Johnen S, Marie C, Scherman D, Izsvak Z, Thumann G. The use of mini-plasmids free of antibiotic resistance markers for a gene therapeutical approach to treat AMD. *Investigative Ophthalmology & Visual Science* 2015 Jun; 56(7):2316. Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology (ARVO) MAY 03-07, 2015
- Hernandez M, Garcia-Garcia L, Recalde S, Fernandez-Robredo P, Madoz JRR, Scherman D, Izsvak Z, Johnen S, Thumann G, Layana AG. *Investigative Ophthalmology & Visual Science* 2015 Jun; 56(7):2316. Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology (ARVO) MAY 03-07, 2015
- Kropp M, Harmening N, Johnen S, Tian SW, Scherman D, Marie C, Izsvak Z, Thumann G. pFAR4 miniplasmids in combination with the Sleeping Beauty transposon system allow efficient transfection of freshly isolated iris pigment epithelial cells. *Investigative Ophthalmology & Visual Science* 2015 Jun; 56(7):2316. Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology (ARVO) MAY 03-07, 2015
- Thumann G, Kropp M, Harmening N (TargetAMD Consortium). Transposon-Based, Targeted Ex Vivo Gene Therapy to Treat Age-related Macular Degeneration. *Investigative Ophthalmology & Visual Science* 2015 Jun; 56(7):1820. Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology (ARVO) MAY 03-07, 2015
- Pastor M, Johnen S, Quiviger M, Izsvak Z, Scherman D, Thumann G, Marie C. Antibiotic-Free Nonviral pFAR4 Vector Displays Efficient Transgene Delivery in Mouse and Human Cells. *Molecular Therapy* 2015 May; 23 :S228-S228. 18th Annual Meeting of the American-Society-of-Gene-and-Cell-Therapy (ASGCT) MAY 13-16, 2015
- Kropp M, Harmening N, Johnen S, Tian S, Scherman D, Marie C, Izsvak Z, Thumann G. Transfection of freshly isolated pigment epithelial cells with pFAR4 miniplasmids using the Sleeping Beauty (SB100X) transposon system. *Human Gene Therapy* 2014 Nov ; 25(11) : A106-A106. ASGCT and NVGCT Collaborative Congress OCT 23-26, 2014
- Pastor M, Johnen S, Quiviger M, Izsvak Z, Scherman D, Thumann G, Marie C. The Merging of the Antibiotic-Free pFAR4 Miniplasmids With the Sleeping Beauty Transposon System Mediates Higher Transgene Delivery in Human Cells. *Molecular Therapy* 2014 May; 22: S128-S128. 17th Annual Meeting of the American-Society-of-Gene-and-Cell-Therapy (ASGCT) MAY 21-24, 2014
- Johnen S, Izsvak Z, Walter P, Thumann G. Efficient transfection of 10,000 pigment epithelial cells with PEDF using the Sleeping Beauty transposon system *Human Gene Therapy* 2012 Oct; 23(10): A81-A81. Collaborative Congress of the European-Society-of-Gene-and-Cell-Therapy/French-Society-of-Cell-and-Gene-Therapy OCT 25-29 2012
- Roters S, Hamzei P, Szurman P, Hermes S, Thumann G, Bartz-Schmidt KU, Kirchhof B. Combined penetrating keratoplasty and vitreoretinal surgery with silicone oil: a 1-year follow-up. *Graefes Archive for Clinical and Experimental Ophthalmology* 2003 Jan; 241(1): 24-33. 99th Annual Meeting of the Deutsche-Ophthalmologische-Gesellschaft SEP 29-OCT 02, 2001
- Thumann G, Hinton D. Cell Biology of the RPE Cell. In: *RETINA*, Ryan SJ (ed.) 5th edition, Mosby, St. Louis, 2012

- Thumann G, Hoffmann S, Hinton D. Cell Biology of the RPE Cell. In: RETINA, Ryan SJ (ed.) 4th edition, Mosby, St. Louis, 2005.
- Thumann G, Aisenbrey S, Bartz-Schmidt KU. Iris pigment epithelium transplantation – experimental and clinical results. In: The Macula Ed. S. Binder, Springer Verlag, 2004
- Aisenbrey S, Thumann G, Bartz-Schmidt KU. Two-year results after macular translocation with 360° retinotomy. In: The Macula, Ed. S. Binder, Springer Verlag, 2004
- Toth C, Thumann G, Kirchhof B. Surgical therapy. In: Age-related macular degeneration. Eds. F.G. Holz, D. Pauleikhoff, R.F. Spaide, A. Bird. Springer Verlag, 2003.
- Bartz-Schmidt KU, Psichias A, Thumann G, Heimann K, Krieglstein G. Retinal ischemia as a risk factor for secondary glaucoma and its clinical consequences. In: Pathogenesis and Risk factors of Glaucoma, Gramer, E., Grehn, F. (Eds.), chapter 24, p. 217-232, Springer Verlag, 1999
- Bartz-Schmidt KU, Thumann G. Bulbusberstung. In: Ophthalmologische Traumatologie, Rohrbach, Steuhl, Knorr, Kirchhof (Hrgs.), Schattauer Verlag, 2001.
- Luther TT, Thumann G, Bartz-Schmidt KU. Traumatische Endophthalmitis. In: Ophthalmologische Traumatologie, Rohrbach, Steuhl, Knorr, Kirchhof (Hrgs.), Schattauer Verlag, 2001.
- Thumann G, Hinton D. Cell Biology of the RPE Cell. In: RETINA, Ryan SJ (ed.) 3rd edition, Volume 1, chapter 7, p. 104-121, Mosby, St. Louis, 2000.
- Schweizer P. Hepatobiliary Surgery in Childhood; Chapter 3: Holschneider A, Schweizer P, Vos A. Surgery for Liver Trauma, Schattauer, Stuttgart – New York 1991; Collaborating author: G. Thumann, M.D., Department of Pediatric Surgery, Children Hospital, Cologne, FRG.

Conferences sur invitation (depuis 2012)

- Thumann G. Le projet européen TargetAMD – Thérapie génique pour traiter la DMLA (Das EU Projekt TargetAMD – Eine Gentherapie zur Behandlung von AMD. August 26th to 28th, 2015. 108th congress of the Swiss Society of Ophthalmology (SSO) in Fribourg, Switzerland
- Thumann G. The TargetAMD project – Using pFAR4 miniplasmids for a SB100X mediated gene therapy to treat nAMD. Human Gene Therapy. October 2015, 26(10): A-1-A-108. ESGCT and FSGT Collaborative Congress Helsinki, Finland September 17–20, 2015
- Thumann G. Stammzelltherapie: Dr. Jekyll oder Mr. Hyde? 113th Annual Meeting of the Deutsche-Ophthalmologische-Gesellschaft Oct 1-4, 2015
- Thumann G. Retinal diseases – The importance of educated and active patients. WHO OCT 8, 2015
- Thumann G. TARGETAMD – Recherche européenne sur la thérapie génique. Journée des ophtalmologues romands Nov 19th, 2015
- Thumann G. Future strategies to treat neurodegenerative diseases. Keynote lecture, SOE, Portoroz (Slovenie), Genève, 6 janvier 2015
- Thumann G. Gentherapie statt Avastin und Co. Medizinische Fakultät Innsbruck (Autriche) 15.11.2014
- Thumann G. Traitement des oedèmes maculaires par anti-VEGF. Formation continue, Clinique La Colline, Genève, 11.11.2014
- Thumann G. Diabetic Retinopathy. ONU, Genève, 13.11.2014
- Thumann G. Transposon based, targeted, ex-vivo gene therapy to treat age related macular degeneration. Annual meeting of the European Society of Gene and Cell Therapy, Madrid, 25.10.2013 (Human gene Therapy 2013; 24(12) A59)
- Thumann G. Age related macular degeneration. UNO, Genève, 16.10.2013
- Thumann G. Non-viral gene therapy to treat ocular disease, SOE 2013, Copenhagen, Denmark
- Thumann G. Clinical management of ocular trauma. University Hospital, Department of ophthalmology. Zagreb 8.11.2012