# Sylvie Julien, PhD

## PERSONAL INFORMATION


| | |
|---|---|
| Birth date: | July 30, 1973 |
| Nationality: | French |
| Address: | Section of Experimental Vitreoretinal Surgery, Centre for Ophthalmology, Schleichstrasse 12/1, 72076 Tübingen, Germany |
| E-mail: | Sylvie.Julien@med.uni-tuebingen.de |


## EDUCATION

| | |
|---|---|
| 1997-2001 | **PhD** in cellular and molecular biology at Strasbourg University, France. |
| 1996-1997 | **Master** (DEA) in cellular and molecular biology at Strasbourg University, France. |
| 1991-1996 | **Biochemistry studies** (DEUG, Licence, Maîtrise) at Strasbourg University, France. |
| 1991 | **Baccalaureate** (Série C: Mathématiques et Sciences Physiques), Lycée franco-allemand/deutsch-französisches Gymnasium, Saarbrücken, Germany. |

## EMPLOYEMENT AND POSITIONS

Since 07/2011 **Assistant Professor**, Section of Experimental Vitreoretinal Surgery, Centre for Ophthalmology, Tübingen, Germany.
Lab head: Prof. Ulrich Schraermeyer

2003-2011 **Post-doctoral fellow**, Centre for Ophthalmology, Tübingen, Germany.
Lab head: Prof. Ulrich Schraermeyer

2001-2003 **Post-doctoral fellow**, MIGRAGEN AG, Tübingen, Germany.
Topic: "Investigation of the biological activity of Receptor Protein Tyrosine Phosphatases during development and the importance of these proteins for functional recovery following CNS injury."
CSO: Dr. Bernhard Müller

1997-2001 **PhD position** at the Institut d'Immunohématologie, Laboratoire d'Immuno-pathologie, Hôpital Universitaire de Strasbourg, France.
Thesis : "Central immune tolerance in the case of autoreactive B cells: roles of the autoantigen, the affinity and the polyreactivity. Analysis using human Rheumatoid Factors transgenic models."
Supervisor: Prof. Thierry Martin

1996-1997 **Master position** at the Institut d'Immunohématologie, Laboratoire d'Immuno-pathologie, Hôpital Universitaire de Strasbourg, France.
Thesis: "Molecular analysis of the surface Immunoglobulin B cells in patients with AIDS primary central nervous system lymphoma."
Supervisor: Prof. Thierry Martin

## FELLOWSHIPS / GRANTS / TRAVEL AWARDS

1997-2000 Fellowship from the "Ministère de l'Education Nationale, de la Recherche et de la Technologie", France

2000-2001 Fellowship from the "Association de Recherche sur la Polyarthrite", France

2005 Grant funded by the Medical Faculty of the University Tuebingen (*f*ortüne), Germany

2006 Grant funded by the Ernst und Berta Grimmke Stiftung, Germany

2006 Grant funded by the Else Kröner-Fresenius-Stiftung, Germany

2007 Grant funded by the Medical Faculty of the University of Tübingen (*f*ortüne), Germany

2008 Grant funded by the Else Kröner-Fresenius Stiftung, Germany

2010 Travel fellowship from DAAD (German Academic Exchange Service) for ARVO Meeting in Fort-Lauderdale, USA

2011 Travel award from ARVO for ARVO Meeting in Fort-Lauderdale, USA

2011 Travel award from IPCC (International Pigment Cell Conference) for IPCC Meeting in Bordeaux, France

## PUBLICATIONS

### RESEARCH ARTICLES

1) **Julien S** & Schraermeyer U. Lipofuscin can be eliminated from the retinal pigment epithelium of monkeys. *Neurobiol Aging*. 2012 [Epub ahead of print]

2) **Julien S**, Biesemeier A, Kokkinou D, Eibl O, Schraermeyer U. Zinc deficiency leads to lipofuscin accumulation in the retinal pigment epithelium of pigmented rats. *PLoS One*. 2011; 6(12):e29245. Epub 2011 Dec 22.

3) Schnichels S, Heiduschka P & **Julien S**. RGMA and neogenin protein expression are influenced by lens injury following optic nerve crush in the rat retina. *Graefes Arch Clin Exp Ophthalmol*. 2011; 250(1):39-50.

4) **Julien S**, Peters T, Ziemssen F, Arango-Gonzalez B, Beck S, Thielecke H, Büth H, Van Vlierberghe S, Sirova M, Rossmann P, Rihova B, Schacht E, Dubruel P, Zrenner E,

Schraermeyer U. Implantation of ultrathin, biofunctionalized polyimide membranes into the subretinal space of rats. *Biomaterials*. 2011; 32:3890-3898.

5) Schnichels S, Heiduschka P & **Julien S**. Different spatial and temporal protein expressions of RGMA and neogenin in the rat optic nerve after optic nerve crush with and without lens injury. *J Neurosci Res*. 2011; 89:490–505.

6) Heiduschka P, **Julien S,** Schüttauf F, Schnichels S. Loss of retinal function in old DBA/2J mice. *Exp Eye Res*. 2010; 91: 779-83.

7) Schraermeyer M, Schnichels S, **Julien S**, Heiduschka P, Bartz-Schmidt KU, Schraermeyer U. Ultrastructural Analysis of the Pigment Dispersion Syndrome in DBA/2J Mice. *Graefes Arch Clin Exp Ophthalmol*. 2009; 247:1493-504.

8) **Julien S,** Heiduschka P, Hofmeister S, Schraermeyer U. Immunohistochemical localisation of intravitreally injected bevacizumab at the posterior pole of the primate eye: Implication for the treatment of retinal vein occlusion. *Br J Ophthalmol*. 2008; 92: 1424-8.

9) **Julien S**, Kreppel F, Beck S, Heiduschka P, Brito V, Schnichels S, Kochanek S, Schraermeyer U. A reproducible and quantifiable model of choroidal neovascularization induced by VEGF-$A^{165}$ after subretinal adenoviral gene transfer in the rabbit. *Mol Vision*. 2008; 14: 1358-72.

10) Peters S, Heiduschka P, **Julien S**, Bartz-Schmidt KU, Schraermeyer U. Immunohistochemical localization of intravitreally injected bevacizumab in the anterior chamber angle, iris and ciliary body of the primate eye. *Br J Ophthalmol*. 2008; 92: 541-4.

11) Biesemeier A, Kokkinou D, **Julien S**, Heiduschka P, Berneburg M, Bartz-Schmidt KU, Schraermeyer U. UV-A induced oxidative stress is more prominent in naturally pigmented aged human RPE cells compared to non-pigmented human RPE cells independent of zinc treatment. *J Photochem Photobiol B*. 2008; 90:113-20.

12) Heiduschka P, **Julien S,** Hofmeister S, Bartz-Schmidt KU, Schraermeyer U. Bevacizumab (Avastin) does not harm retinal function after intravitreal injection as shown by electroretinography in adult mice. *Retina*. 2008; 28: 46-55.

13) **Julien S**, Schnichels S, Teng H, Tassew N, Henke-Fahle S, Mueller B, Monnier P. Purkinje cell survival in organotypic cultures: Implication of Rho and its downstream effector ROCK. *J Neurosci Res*. 2008; 86: 531-6.

14) Schnichels S, Conrad S, Warstat K, Henke-Fahle S, Skutella T, Schraermeyer U, **Julien S.** Gene expression of the repulsive guidance molecules/neogenin in the developing and mature mouse visual system: C56BL/6 versus the glaucoma model DBA/2J. *Gene Expr Patterns*. 2007; 8: 1-11.

15) Heiduschka P, Blitgen-Heinecke P, Tura A, Kokkinou D, **Julien S,** Hofmeister S, Bartz-Schmidt KU, Schraermeyer U. Melanin precursor 5,6-dihydroxyindol: Protective effects and cytotoxicity on retinal cells *in vitro* and *in vivo*. *Toxicol Pathol*. 2007; 35: 1030-8.

16) Heiduschka P**,** Fietz H, Hofmeister S, Schultheiss S, Mack AF, Peters S, Ziemssen F, Niggemann B, **Julien S,** Bartz-Schmidt KU, Schraermeyer U, Tuebingen Bevacizumab

Study Group. Penetration of bevacizumab through the retina after intravitreal injection in the monkey. *Invest Ophthalmol Vis Sci*. 2007; 48: 2814-23.

17) Peters S, Heiduschka P**, Julien S,** Ziemssen F, Fietz H, Bartz-Schmidt KU, Tuebingen Bevacizumab Study Group, Schraermeyer U. Ultrastructural findings in the primate eye after intravitreal injection of bevacizumab. *Am. J. Ophthalmol*. 2007; 143: 995-1002.

18) **Julien S,** Kociok N, Kreppel F, Kopitz J, Brito V, Biesemeier A, Blitgen-Heinecke P, Heiduschka P, Schraermeyer U. Tyrosinase biosynthesis and trafficking in adult human retinal pigment epithelial cells. *Graefe's Arch Clin Exp Ophthalmol*. 2007; 21; 245:1495-505.

19) Peters S, **Julien S,** Heiduschka P, Grisanti S, Ziemssen F, Adler M, Schraermeyer U, Bartz-Schmidt KU, Tuebingen Bevacizumab Study Group. Anti-permeability and anti-proliferative effects of standard and frozen bevacizumab on choroidal endothelial cells. *Br. J. Ophthalmol*. 2007; 91: 827-31.

20) Schwab JM, Conrad S, Monnier PP, **Julien S**, Mueller BK, Schluesener HJ. Spinal cord injury induced lesional expression of the Repulsive Guidance Molecule (RGM). *Eur. J. Neurosci.* 2005; 21: 1569-76.

21) Soulas P, Koenig-Marrony S, **Julien S**, Knapp AM, Garaud JC, Pasquali JL, Martin T. A role for membrane IgD in the tolerance of pathological human rheumatoid factor B cells. *Eur. J. Immunol*. 2002; 32: 2623-34.

22) **Julien S**, Soulas P, Garaud JC, Martin T, Pasquali JL. B cell positive selection by soluble self-antigen. *J. Immunol*. 2002; 169: 4198-204.

23) Koenig-Marrony S, Soulas P, **Julien S**, Knapp AM, Garaud JC, Martin T, Pasquali JL. Natural autoreactive B cells in transgenic mice reproduce an apparent paradox to the clonal tolerance theory. *J.Immunol*. 2001; 166: 1463-70.

24) **Julien S,** Radosavlevic M, Labouret N, Camilleri-Broet S, Davi M, Raphael M, Martin T, Pasquali JL. AIDS primary central nervous system lymphoma: molecular analysis of the expressed VH genes and possible implications for lymphomagenesis. *J.Immunol*.1999; 162: 1551-8.

**BOOK CONTRIBUTIONS**

1) **Julien S** & Schnichels S. Role of RGM, an Axon Guidance Protein, in the Degeneration and Regeneration of the Optic Nerve - Implication for the Treatment of Glaucoma, in: Alan N. Westerhouse (Editor), Eye Research Developments: Glaucoma, Corneal Transplantation, and Bacterial Eye Infections. Nova Science Publishers, Hauppauge NY, USA, pp. 235-244, 2009.

2) **Julien S,** Ziemssen F, Schraermeyer U. Tiermodelle der altersabhängigen Makuladegeneration published in Intravitreale Pharmakotherapie: Moderne Medikamente und ihre Anwendung am Patienten (Tübinger Kompendium), Hrsg: Bartz-Schmidt, Schattauer (Stuttgart) 2008.

## INVITED LECTURES AND CONFERENCES

1) **Julien S**. “CNV induction model in rabbits”. 12th Vitreoretinal Symposium Frankfurt-Marburg 2009; Frankfurt/Main, Germany. August 2009.

2) **Julien S**. “Greffes de cellules rétiniennes”. Journée d’enseignement post-universitaire “Maladie de la rétine : innovations thérapeutiques”; organisée par le service d’Ophtalmologie de l’Hôtel-Dieu, Paris, France. February 2008.

## POSTER PRESENTATIONS

24 presentations at national and international meetings.