

Jean-Pierre HUBSCHMAN, M.D.

Curriculum Vitae

Office: Stein Eye Institute
David Geffen School of Medicine at UCLA
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Citizenship: American and French

EDUCATION:

Graduate - Doctoral

1985-1991 Medical School
University of Lille II, Lille, France

Postdoctoral Training

1991-1992 Internship
Hopital Hurriez, Lille, France

1992-1996 Residency
Timone Hospital Aix-Marseille University, France

Clinical & Research Fellowships

1996-1998	Retina Fellowship Timone Hospital Aix-Marseille University, France
2006-2007	Research Fellowship Department of Ophthalmology David Geffen School of Medicine Jules Stein Eye Institute, UCLA

MEDICAL LICENSURE:

1996	France	
1999	Spain	
2006	California	License Number: A115123

BOARD CERTIFICATION:

1999	Board Certified in Ophthalmology in Europe
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PROFESSIONAL EXPERIENCE:

Academic Appointments :

- 2015 - Present Associate Professor in Residence
Department of Ophthalmology
David Geffen School of Medicine - UCLA
Jules Stein Eye Institute
- 2010 - 2015 Assistant Professor in Residence
Department of Ophthalmology
David Geffen School of Medicine - UCLA
Jules Stein Eye Institute
- 2012 -Present Affiliate Faculty
Bioengineering Department
Henry Samueli School of Engineering and Applied Science - UCLA
Westwood, California
- 2008 - Present Chief of Retina
Olive View Medical Center - UCLA
Sylmar, California

Non-Academic Appointments:

- 2001 – 2006 Chief of the Retina department of the Policlinica Guipozcoa
San Sebastien, Spain
- 2000 – 2006 Chief of the Retina department Policlinique Aguilera
Biarritz, France
- 1999 – 2006 Chief of the Retina department at Helios Eye Center
Saint Jean de Luz, France

Additional Appointments:

- 2011 - Member of California NanoSystems Institute (CNSI)
UCLA
- 2006 - Investigator and Member of the CASIT
Center for Advanced Surgical and Interventional Technology
UCLA

LOCAL COMMITTEE SERVICE

Jules Stein Eye Institute & Department of Ophthalmology Service

Department of Ophthalmology Appointment, Academic Advancement & Promotion Committee	2017
Department of Ophthalmology Appointment, Academic Advancement & Promotion Committee	2010
Department of Ophthalmology Appointment, Academic Advancement and Promotion Committee	2008
Department of Ophthalmology Clinical Committee	2008
Department of Ophthalmology and Jules Stein Eye Institute Clinical Research Committee	2008
Department of Ophthalmology Committee	2008
Jules Stein Eye Institute Committee	2008

Department of Ophthalmology Quality Improvement
through Peer Review

2008

MEMBERSHIPS – PROFESSIONAL ASSOCIATIONS & SCHOLARLY SOCIETIES

The Club Jules Gonin	2015 – Present
The Macula Society	2015 – Present
The Retina Society	2012 – Present
Jules Stein Eye Institute Member	2006 – Present
American Society of Retina Specialist	2005 – Present
American Academy of Ophthalmology	2002 – Present
Schepens International Society	2001 – Present
American Society of Cataract and Refractive Surgery	2000 – Present
European Vitreo Retinal Society	1998 – Present
Association for Research in Vision and Ophthalmology	1997 – Present
Société Française de Chirurgie Rétino-Vitréenne	1997 – Present
European Research Society in Ophthalmology and Vision	1996 – Present
Sociedad de Oftalmología Española	1996 – Present
Société Française d’Ophtalmologie	1993 – Present

REVIEWER FOR PEER-REVIEWED PUBLICATIONS

American Journal of Ophthalmology	2019- Present
BMC Ophthalmology	2018- Present
Survey of Ophthalmology	2016- Present
The International Journal of Medical Robotics and Computer Assisted Surgery	2016 - Present
Expert Review of Ophthalmology	2016 - Present
Current Eye Research	2016 - Present
Minimally Invasive Therapy & Allied Technologies	2014 – Present
Translational Vision Science & Technology	2014 – Present
Investigative Ophthalmology & Visual Science	2013 – Present
Experimental Eye Research	2011 – Present
Eye	2010 – Present
Graefe’s Archives for Clinical & Experimental Ophthalmology	2010 – Present
British Journal of Ophthalmology	2009 – Present
Ophthalmology	2009 – Present
Retina	2009 – Present
Clinical Ophthalmology	2008 – Present
Indian Journal of Ophthalmology	2008 – Present
Ocular Surgery, Laser and Imaging	2008 – Present

EDITORIAL BOARD MEMBERSHIP

Ophthalmology and Therapy Housekeeping	2020 – Present
Ophthalmic Surgery Editorial Board	2016 – Present
Journal Remedy Open Access Clinical Ophthalmology Leaflets- Remedy Open Access	2016 - Present
International Journal of Ophthalmic Research (IJOR)	2014 – Present
Austin Journal of Clinical Ophthalmology	2014 – Present
International Journal of BioSciences and Technology (IJBST)	2013 – Present
Medical Instrumentation Journal	2013 – Present

AWARDS & SPECIAL HONORS

2018	Visiting Professor at Facultad de Medicina, Universidad Nacional del Nordeste, Argentina
2017	Visiting Professor at Magrabi ICO Cameroon Eye Institute (MICEI) Yaoundé, Cameroon, Africa
2016	Presented “America's Most Honored Professionals 2016 - Top 1%” Award by Patients’ Choice
2016	Presented “Compassionate Doctor 5 Year Honoree 2015” Award by Patients’ Choice

Jean – Pierre Hubschman, MD

- 2016 Received the 2016 THz Science and Tech. Best Paper Award of the IEEE Microwave Theory and Techniques Society
- 2016 ARVO Poster Moderator in the 2016 ARVO Annual Meeting
- 2016 Presented “Patients' Choice 5 Year Honoree 2015” Award by Patients’ Choice
- 2016 Presented “2015 Patients' Choice” Award by Patients’ Choice
- 2016 Presented “2015 Compassionate Doctor” Award by Patients’ Choice
- 2015 Presented “2014 Compassionate Doctor” Award by Patients’ Choice
- 2015 Presented “2014 Patients' Choice” Award by Patients’ Choice
- 2014 Presented “Top 10 Doctor by State” Award by Patients’ Choice
- 2014 Presented “2013 Compassionate Doctor” Award by Patients’ Choice
- 2013 Presented “2013 Patients' Choice” Award by Patients’ Choice
- 2013 Presented “2012 Compassionate Doctor” Award by Patients’ Choice
- 2013 Presented “2012 Patients' Choice” Award by Patients’ Choice
- 2012 Presented “2011 Compassionate Doctor” Award by Patients’ Choice
- 2012 Presented “2011 Patients' Choice” Award by Patients’ Choice
- 2011 Invited Co-Chair for the 33rd Annual International Conference of The IEEE Engineering in Medicine and Biology Society in Boston
- 2011 Invited Chair for the 7th Annual International Meeting on Vitreo-Retinal Surgery : Program and Lecturers, Retina Biarritz, Biarritz (France)
- 2011 Presented “Best Poster” Award by the American Academy of Ophthalmology for PO501 : Evaluation of Macular Pathology in Diabetic Retinopathy Using Ultrawide-Field Fluorescein Angiography
- 2009 Invited Chair for the 6th Annual International Meeting on Vitreo-Retinal Surgery : Program and Lecturers, Retina Biarritz, Biarritz (France)

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- 2007 Invited Chair for the 5th Annual International Meeting on Vitreo-Retinal Surgery : Program and Lecturers, Retina Biarritz, Biarritz (France)
- 2006 Elected 9th French Vitreo-Retinal surgeon by the “Le Point”
- 2005 Elected 8th French Vitreo-Retinal surgeon by the “Le Point”
- 2005 Invited Chair for the 4th Annual International Meeting on Vitreo-Retinal Surgery : Program and Lecturers, Retina Biarritz, Biarritz (France)
- 2004 Elected 6th French Vitreo-Retinal surgeon by the “Le Point”
- 2003 Elected 10th French Vitreo-Retinal surgeon by the “Le Point”
- 2003 Invited Chair for the 3rd Annual International Meeting on Vitreo-Retinal Surgery : Program and Lecturers, Retina Biarritz, Biarritz (France)
- 2002 Elected 10th French Vitreo-Retinal surgeon by the “Le Point”
- 2001 Elected 7th French Vitreo-Retinal surgeon by the “Le Point (Most reputed newsmagazine in France)
- 2001 Invited Chair for the 2nd Annual International Meeting on Vitreo-Retinal Surgery : Program and Lecturers, Retina Biarritz, Biarritz (France)
- 1997 C.L.A.O Congress, Las Vegas (USA), Award BAUSCH and LOMB

RESEARCH – GRANTS & SUPPORT

NATIONAL INSTITUTES OF HEALTH

- **“Intraocular Robotic Interventional and Surgical System for Automated Cataract Surgery”**
1R01 EY 030595
Principal-Investigator, JSEI/ UCLA
9/30/2019- 8/31/2023
Total Direct \$1,584,098

- **“Vitreoretinal Surgery via Robotic Microsurgical System with Image Guidance, Force Feedback, Virtual Fixture, and Augmented Reality”**
1R01 EY 029689
Principal-Investigator, JSEI/ UCLA
2/01/2019- 1/31/2024
Total Direct \$1,407,452

- **“Intraocular Robotic Interventional Surgical System for Cataract Surgery”**
R21 EY 024065
Principal-Investigator, JSEI/ UCLA
9/26/2014 – 9/26/2016
Total Direct \$423,500

- **“Non-contact, THz Sensing of Corneal Hydration”**
RO1 EY 021590
Co-Investigator, JSEI/ UCLA / ARC 2011-015-01A
7/01/11- 6/30/16
Total Direct\$2,292,549
Salary.....\$20,929 per year
PI: Warren S. Grundfest, MD

- **“A Multi-Center, Randomized Trial of Lutein, Zeaxanthin, and Omega-3 Long-Chain Polyunsaturated Fatty Acids (Docosahexaenoic Acid [DHA] and Eicosapentaenoic Acid [EPA]) in Age-Related Macular Degeneration”**

Co-Investigator, JSEI/UCLA / IRB 06-07-096

1/1/06-6/30/13

AREDS2—Cumulative funding: \$161,185

PI: Steven D. Schwartz, MD

RESEARCH GRANTS & SUPPORT – Industry Sponsored

Principal Investigator:

- "Intraocular robotic surgical system for cataract removal"
Principal-Investigator / UCLA Innovation Fund Medtech Track
2019
Total Direct \$200,000
- "Intraocular robotic surgical system for cataract removal"
Principal-Investigator / Kairos Ventures award
10/23/19 \$200,000
- **Extension Study of NT-501 Ciliary Neurotrophic Factor (CNTF) Implant for Macular Telangiectasia (MacTel)**
Principal Investigator, JSEI/UCLA/ IRB 17-000671 Lowy Medical Research Institute
8/14/2017-6/30/2022..... \$53,145
- **“A Phase III Multicenter Randomized, Sham Controlled, Study to Determine the Safety and Efficacy of Renexus® in Macular Telangiectasia Type 2”**
Principal Investigator, JSEI/ UCLA/ IRB 17-001543 Lowy Medical Research Institute
2/26/18 - 12/21/21 \$313,320
- **“A Phase II Multicenter Randomized Clinical Trial of Ciliary Neurotrophic Factor (CNTF) for Macular Telangiectasia Type II (MacTel)”**
Principal Investigator, JSEI/UCLA/ IRB 13-001757 / Lowy Research Foundation
8/6/14- 06/30/18 \$99,258

- **“Ocriplasmin Research to Better Inform Treatment (ORBIT Protocol # TG-MV-018)**
Principal Investigator, JSEI/ UCLA / IRB 14-000906 / Thrombogenics, Inc.
07/16/14 – 07/15/16 \$6,040

- **“OPH 1002 – A Phase III Study to Establish the Safety and Efficacy of Lucentis® and Fovista™ Combination Therapy for Wet Age-Related Macular Degeneration (AMD) Compared to Lucentis Only”**
Principal Investigator, JSEI/ UCLA / IRB 13-00-1621-AM-00002 / Ophtotech
12/04/2013- 09/27/17 \$130,650

- **“A Natural History Observation and Registry Study of Macular Telangiectasia, Type 2: The MACTEL Study”**
Principal Investigator, JSEI/UCLA/ IRB 10-000965 / Lowy Research Foundation
Cumulative Funding 08/2013 -12/31/21 \$465,829

- **“A Phase III, Multi-Center, Randomized, Double-Masked Study Comparing the Efficacy and Safety of 0.5 mg and 2.0 mg Ranibizumab Administered Monthly or on an as Needed Basis (PRN) with a Safety Run-in of a Single Dose of 2.0 MG Ranibizumab in Patients with Subfoveal Neovascular Age-Related Macular Degeneration (Harbor Study)”**
Principal Investigator, JSEI/ UCLA / WIRB 1112710 / Genentech
10/13/2009- 03/1/2013 \$671,131

- **“OPH 2000-A Phase I, Ascending Dose and Parallel Group Trial to Establish the Safety, Tolerability and Pharmacokinetic Profile of Multiple Intravitreal Injections of ARC 1905 [Anti-C5 Aptamer] Given in Combination Therapy w/ Multiple Dose of Lucentis® 0.5 mg/eye in Subjects with Neovascular Age-Related Macular Degeneration”**
Principal Investigator, JSEI/UCLA / IRB 09-01-047-01 / Ophtotech
04/29/2009- 04/29/2011 \$42,187

- **“Protocol No. OPH1000: A Ph 1, Single Ascending Dose Trial to Establish Safety, Tolerability, and Pharmacokinetic Profile of Intravitreal Injections of E 10030 (Anti-PDGFG Pegylated Aptamer) Monotherapy and of E10030 Given in Comb with Lucentis® 0.5 mg/eye in Subjects w/ Neovascular Age-Related Macular Degeneration”**
Principal Investigator, JSEI/UCLA / IRB 07-11-097-01A/ Ophtotech
02/25/2008- 02/25/2010 \$52,335

Co-Investigator:

- **“A Staged Study Incorporating a Phase 1B, Multicenter, Unmasked, Dose Escalation Evaluation of Safety and Tolerability and a Phase 2, Multicenter, Unmasked, Randomized, Parallel-Group, Controlled, Proof of Concept Investigation of Efficacy and Safety of ASP7317 for Atrophy Secondary to AMD”**
Co-Investigator, IRB 17-000835 / Astellas Institute for Regenerative Medicine
8/22/2018-8/22/2021 \$680,530
PI: Steven D. Schwartz, M.D.

- **“A Multi, Open-Label Extension Study to Evaluate the Long-Term Safety and Tolerability of Lampalizumab in Patients with Geographic Atrophy Secondary to Age-Related Macular Degeneration Who Have Completed a Roche-Sponsored Study”**
Co-Investigator, IRB 16-001069
10/27/16- 10/27/19 \$515,861
PI: Steven D. Schwartz, M.D.

- **“A Multicenter, Prosp Epidemiologic Study of the Progression of Geographic Atrophy Secondary to Age-Related Macular Degeneration (Protocol # GX 29633)**
Co-Investigator, IRB 16-00461
10/18/16- 08/01/2020 \$221,675
PI: Steven D. Schwartz, M.D.

- **“A Phase III, Multicenter, Randomized, Double-Masked, Sham-Controlled Study to Assess the Efficacy and Safety of Lampalizumab Administered Intravitreally to Patients with Geographic Atrophy Secondary to Age-related Macular Degeneration (Protocol # GX29176)**
Co-Investigator, IRB 14-001366
11/18/14- 09/27/16 \$262,529
PI: Steven D. Schwartz, M.D.

- **“Human Embryonic Stem Cell Derived Retinal Pigmented Epithelial (MA09-RPE) Cells in Patients with Myopic Macular Degeneration”**
Co-Investigator, IRB 13-000155
03/24/2014- 03/23/2015..... \$721,409
PI: Steven D. Schwartz, M.D.

- **“Long Term Follow Up to A Phase I/II, Open-Label, Multi-Center, Prospective Study to Determine the Safety and Tolerability of Sub-Retinal Transplantation of Human Embryonic Stem Cell Derived Retinal Pigmented Epithelial (MA09-hRPE) Cells in Patients with Stargardt’s Macular Dystrophy (SMD)”**
Co-Investigator, IRB 10-001737 / Advanced Cell Technology, Inc.
02/13/2013- 2029 \$598,987
PI: Steven D. Schwartz, M.D.

- **“Long Term Follow Up to A Phase I/II, Open-Label, Multi-Center, Prospective Study to Determine the Safety and Tolerability of Sub-Retinal Transplantation of Human Embryonic Stem Cell Derived Retinal Pigmented Epithelial (MA09-hRPE) Cells in Patients with Advanced Dry AMD”**
Co-Investigator, IRB 11-000694 / Advanced Cell Technology, Inc.
02/13/2013- 2029 \$598,987
PI: Steven D. Schwartz, M.D.

- **“OPERA Study in AREDS 2: Using the Optos Panoramic 200TX Device”
(Optos Peripheral Retina (OPERA) AREDS II Ancillary Study)**
Co-Investigator, IRB 11-002396
06/1/2011- 12/31/2012..... \$2,192
PI: Steven D. Schwartz, M.D.

- **“A Phase 1 Multicenter Open Label Safety and Tolerability Clinical Trial of Ciliary Neurotrophic Factor (CNTF) in patients with Telangiectasia Type 2 (MacTel)”**
Co-Investigator, IRB 11-001242
07/19/2011- 07/18/17..... \$137,070
PI: Steven D. Schwartz, M.D.

- **“A Phase I/II, Open-Label, Multi-Center, Prospective Study to Determine the Safety and Tolerability of Sub-Retinal Transplantation of Human Embryonic Stem Cell Derived Retinal Pigmented Epithelial (MA09-hRPE) Cells in Patients with Advanced Dry AMD”**
Co-Investigator, IRB 11-000694 / Advanced Cell Technology, Inc.
04/05/11- 04/4/13 \$663,630
PI: Steven D. Schwartz, M.D.

- **“A Phase I/II, Open-Label, Multi-Center, Prospective Study to Determine the Safety and Tolerability of Sub-Retinal Transplantation of Human Embryonic Stem Cell Derived Retinal Pigmented Epithelial (MA09-hRPE) Cells in Patients with Stargardt’s Macular Dystrophy (SMD)”**
Co-Investigator, IRB 10-001737 / Advanced Cell Technology, Inc.
03/23/11- 03/22/13 \$605,290
PI: Steven D. Schwartz, M.D.

- **“P200CAF Ultra-Wide Field Scanning Laser Ophthalmoscope for Patients with Vitreoretinal Diseases”**
Co-Investigator, IRB 10-001852/ Optos
02/11/10- 10/12/2013..... [trial not funded]
PI: Steven D. Schwartz, M.D.

- **“A Randomized, Placebo Controlled, Double-Masked, Multicenter Trial of Microplasmin Intravitreal Injection for Non-Surgical Treatment of Focal Vitreomacular Adhesion”**
Co-Investigator, Thrombogenics Inc.-Clinical Trials Award: TG-MV-006
03/03/09- 09/03/10 \$163,240
PI: Steven D. Schwartz, M.D.

- **“Pan-VEGF BLOCKade for the Treatment of ROP (BLOCK ROP Study): Study of the Safety of a Single Intravitreal Injection of Avastin® in One Eye for the Treatment of the Aggressive Posterior Form of Retinopathy of Prematurity (ROP) in Both Eyes After No Favorable Response from Laser Treatment”**
Co-Investigator, IRB 07-04-052
12/14/07-10/22/09 [trial not funded]
PI: Steven D. Schwartz, M.D.

- **“A Multicenter, Randomized, Placebo-Controlled, Double-Masked, Parallel-Group, Dose-Ranging Clinical Trial of Intravitreal Microplasmin in Patients Undergoing Surgical Vitrectomy: The MIVI III [Microplasmin for Vitreous Injection III] Trial”**
Co-Investigator, IRB 07-01-034 / Thrombogenics Inc.-Clinical Trials Awards
04/01/07- 03/31/09 \$154,675
PI: Steven D. Schwartz, M.D.

■ **“A Natural History Study of Macular Telangiectasia – The MACTEL Study”**

Co-Investigator, JSEI/UCLA/ IRB 10-001387 / Lowy Research Foundation

Cumulative Funding 09/1/2005- 08/31/2013..... \$175,334

PI: Steven D. Schwartz, M.D.

Completed Study

Investigator-Initiated Single-Site Study: Food and Drug Administration IND Held by Investigator

Co-Investigator:

■ **“Resolution of Vitreomacular Adhesion (VMA) Associated with Neovascular Age-related Macular Degeneration (AM) with Intravitreal Microplasmin”**

Co- Investigator, JSEI/UCLA / IRB 09-06-085 / ThromboGenics Inc. Clinical Trials Award
IND#105,711

06/30/09 - 06/29/11 \$ 33,726

PI: Steven D. Schwartz, M.D.

JULES STEIN EYE INSTITUTE/ UCLA CLINICAL RESEARCH CENTER

Retina Division – Investigator-Initiated Clinical Trials

(Single-Site Unfunded Studies)

Principal Investigator:

■ **“Hyalocytes in Macular Hole and Macular Pucker”**

Principal Investigator, JSEI/UCLA / IRB 16-000886

06/28/16- 06/27/17

- **“Survey of Risk of Needlestick Injury During Intravitreal Avastin Injections”**
Principal Investigator, JSEI/UCLA / IRB 13-000192
02/01/13- 03/03/18

- **“A Prospective Evaluation of Air, Perfluoropane (C3F8), and Sulfur Hexafluoride (SF6) Gas Disappearance Variability after Vitrectomy”**
Principal Investigator, JSEI/UCLA / IRB 11-001835 (09-07-035-02)
05/26/2011- 05/25/2012
Study completed

- **“Evaluation of Ocular Hazards from Currently Available Light Curing Units”**
Principal Investigator, JSEI/UCLA / IRB 11-0000450
03/16/2011- 02/26/2012
Study completed

- **“Viscoelastic Properties of Vitreous”**
Principal Investigator, JSEI/UCLA / IRB 10-001933
01/13/2011- 01/04/18

- **“A Prospective Evaluation of Pars Plana Vitrectomy with and without Internal Limiting Membrane Peel in Patients with Complications of Proliferative Diabetic Retinopathy”**
Principal Investigator, JSEI/UCLA / IRB 10-001038
10/14/2010- 10/13/2011
Study Completed

- **“Prospective Study to Assess the Amount of Heavy Metals in Surgically Removed Human Ocular Tissue”**
Principal Investigator, JSEI/UCLA / IRB 10-000824
09/27/2010- 07/25/2016
Study completed

- **“Surgical Motion Evaluation with Sensors”**
Principal Investigator, JSEI/UCLA / IRB 10-001037
12/22/2008- 09/30/2013
Study completed

■ **“Survey of Practice and Preferences in Intravitreal Injections”**

Principal Investigator, JSEI/ UCLA / IRB 10-001080

12/16/2009- 10/14/2011

Study Completed

■ **“Retrospective Analysis of Keratoprosthesis Implantations”**

Principal Investigator, JSEI/ UCLA / IRB 10-000826

11/18/2008- 8/19/2013

Study completed

Co-Investigator:

■ **“Rate of Endophthalmitis in Gas-Filled Eyes Following Small-Gauge Vitrectomy Surgery for Macular Hole”**

Co-Investigator, JSEI/UCLA/ IRB 11-001086

03/18/2012- 03/17/2012

PI: Steven D. Schwartz, M.D.

Study completed

■ **“Bevacizumab effect on Intraocular Pressure after Ahmed Valve Implantation for Neovascular Glaucoma”**

Co-Investigator, JSEI/UCLA/ IRB 11-00482

02/9/2012- 02/14/2013

PI: Robert Beardsley, M.D.

Study completed

■ **“Changes in Binocular Interactions in Macular Edema and Macular Degeneration”**

Co-Investigator, JSEI/UCLA/ IRB 11-002358

10/6/2011- 02/26/2014

PI: Stacy Pineles, M.D.

Study completed

- **“Retrospective Analysis of Anti-VEGF Therapies”**
Co-Investigator, JSEI/UCLA/ IRB 11-001350
07/16/07- 01/04/18
PI: Steven D. Schwartz, M.D.

- **“Retrospective Analysis of Vitreosurgical Intervention”**
Co-Investigator, JSEI/UCLA/ IRB 11-001349
08/21/06- 03/06/2017
PI: Steven D. Schwartz, M.D.

- **“Surgical Outcomes of Patients with Proliferative Vitreoretinopathy Requiring Inferior Retinectomies”**
Co-Investigator, JSEI/UCLA/ IRB 11-001351
08/11/06- 12/20/17
PI: Steven D. Schwartz, M.D.

- **“Retrospective Analysis of Laser Techniques”**
Co-Investigator, JSEI/UCLA/ IRB 11-001750
08/2/06- 04/3/2017
PI: Steven D. Schwartz, M.D.

- **“Retrospective Analysis of Retinal Imaging”**
Co-Investigator, JSEI/UCLA/ IRB 11-000324
6/28/06-12/4/2017
PI: Steven D. Schwartz, M.D.

- **“Retinopathy of Prematurity (ROP) Registry”**
Co-Investigator, JSEI/UCLA/ IRB 10-001093
01/26/06- 09/15/19
PI: Steven D. Schwartz, M.D.

- **“25 Gauge Vitrectomy System Registry”**
Co-Investigator, JSEI/UCLA/ IRB 11-000196
1/18/06-2/5/2017
PI: Steven D. Schwartz, M.D.

RESEARCH GRANTS & SUPPORT – Nonprofit/Private

Research Support

■ **Hess Foundation**

2019	\$200,000
2018	\$200,000
2017	\$200,000
2016	\$200,000
2015	\$200,000
2013	\$400,000

■ **Hongbin Peng**

2019	\$25,000
2018	\$25,000
2016	\$50,000

■ **Earl and Doris Peterson Fund / California Community Foundation**

2018	\$9,380
2016	\$10,370

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2015	\$10,580
2014	\$10,297
2013	\$10,128
2012	\$9,870
2011	\$10,047
2010	\$10,919
2009	\$9,653
2008	\$12,569

■ **Bruce Hendin**

2018.....	\$1,000
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■ **Seymour Wolk and Kristen Zethren**

2017.....	\$5,000
2016	\$7,500

■ **Mahmoud Khayami**

2012	\$7,500
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■ **The Walt Disney Company**

2011 \$14,000

■ **Drue Ann Wilson**

2011 \$500

Research / Patents

- 2018- System and Method for Automated Image-guided Robotic Intraocular Surgery
PCT/US2019/032236
- 2018- Intraoperative Assessment of Implant Positioning
PCT/US2019/028937
- 2018- Docking System to Stabilize Eyeball during Intraocular Surgery
PCT/US2019/022986
- 2018- Rapid and Precise Tool Exchange Mechanism for Intraocular Robotic Surgical System
PCT/US2019/023193
- 2017 - Laser-assisted Surgical Alignment
PCT/US2018/019760
- 2016- Novel Surgical Device for Scleral Buckling Retinal Detachment Repair
UCLA / 2016-99K-1
USPTO / 62/398,778

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- 2016 - Apparatus, System, and Method for Robotic Microsurgery
PCT/US2011/021405
USPTO/9283043
- 2012 - Automated Detection of Retinal Nonperfusion
UCLA/2012-883-1
- 2012 - Apparatus, Systems and Methods for Obtaining Rheological Properties of Viscoelastic Materials and for Diagnosing Disease Conditions Based on Viscosity of the Vitreous
UCLA/2011-208-1
USPTO/61/652,663
- 2012 - Corneal Hydration Sensing with Terahertz Illumination
UCLA/2012-100-1
USPTO/61/528,558
- 2012 - Corneal Hydration Sensing with THZ Illumination
UCLA/2012-100-2
USPTO/13/597,947 USPTO/61/641,256
- 2012 - Pneumatically Actuated Microsurgical Instruments
UCLA/2012-637-1
USPTO/61/641,256
- 2011 - A Device for in Vivo Characterization of Human Body Fluid
UCLA/2011-208-2
USPTO/14/549,372
- 1998 - Surgery or Micro-Surgery Instrument Kit for single use
WO/1998/022035

Other Research Activities

Organizer of a Special interest group Session at ARVO

- 2019 Integrating Robotics into Ophthalmic Surgery - SIG
May 1st, 2019
ARVO, Vancouver

Founder, Organizer, and Director of an International Meeting on Vitreo-Retinal Surgery for the Stein Eye Retina Alumni

2018 First Annual Kreiger Lecture
Los Angeles, California
April 28th 2018

Founder, Organizer, and Director of an International Meeting on Vitreo-Retinal Surgery: Program and Lecturers on www.asso-œil.com

2011 RETINA BIARRITZ 2011
Biarritz, France

2005 RETINA BIARRITZ 2005
Biarritz, France

2003 RETINA BIARRITZ 2003
Biarritz, France

2001 RETINA BIARRITZ 2001
Biarritz, France

2000 E.P. U: eye and diabetes
Saint Jean de Luz, France

1999 E.P. U : ARMD and physiotherapy for short sighted patients
Attending Associations: AMOBB – ABOI – ABBOI – ALOI – AOBB
Biarritz, France

1999 RETINA BIARRITZ 1999
Biarritz, France

Organizer of the Meetings on Mathematical Challenges in Ophthalmology for the Institute of Pure and Applied Mathematics (IPAM): Program and Lecturers on www.ipam.ucla.edu

2014 Institute of Pure and Applied Mathematics (IPAM)
NSF Math Institute at UCLA

TEACHING ACTIVITIES

COURSE PROGRAM — University of California Los Angeles (UCLA)

10/31/19	OP 250.04	Ophthalmology Workshop
10/01/19	HDB 408	Medical Neurosciences 2
10/18/18	OP 250.04	Ophthalmology Workshop
03/01/18	HDB 409	Ophthalmology Knowledge and Skills Assessment
10/27/16	HBD 408	Ophthalmology Workshop II- Vision and Primary Eye Disease
10/27/16	HBD 407	Ophthalmology Thread
10/ 2015	HBD 408	Medical Neurosciences 2
09/ 2014	HBD 406	Ophthalmology Clinical Skills
01/ 2014	HBD 406	Ophthalmology Clinical Skills
01/2014	HBD 408	Medical Neurosciences 2
09/2013	HBD 406	Ophthalmology Clinical Skills
11/2012	HBD 408	Medical Neurosciences 2
03/2011	HBD 408	Medical Neurosciences 2
03/2009	HBD 408	Medical Neurosciences 2

OTHER TEACHING — Jules Stein Eye Institute (JSEI) / University of California Los Angeles (UCLA)

Grand Rounds– JSEI/UCLA, Department of Ophthalmology

04/11/2018	Lecturer & Moderator: Grand Rounds – “Age Related Macular Degeneration and the process in Robotic Surgery”
03/ 2014	Lecturer & Moderator: Grand Rounds – “Past, Present and Future of Retinal detachment”
04/ 10/2013	Lecturer & Moderator: Grand Rounds - “Retinal Vascular Diseases: Development of an Automated Retinal Image Analysis Using Ultra Wide Field Angiography”
02/ 15/2012	Lecturer & Moderator: Grand Rounds – “The Future of Eye Robotic Surgery”
01/ 19/2011	Lecturer & Moderator: Grand Rounds– “Computational model and Ophthalmology”
05/ 27/2010	Lecturer & Moderator: Grand Rounds– “Imaging”
09/ 30/2009	Lecturer & Moderator: Grand Rounds– “Robotic surgery in Ophthalmology”

Basic Science – JSEI/UCLA, Department of Ophthalmology

10/17/2018	Retinal Vascular disease
10/05/ 2016	Posterior complications of cataract surgery; macular surgery

Jean – Pierre Hubschman, MD

10/14/ 2015	Disorder of the retina and vitreous
10/15/ 2014	Retinal vascular diseases and Macular Degeneration
10/01/ 2014	Posterior complications of cataract surgery and macular surgery
10/10/ 2012	Retina and Vitreous
10/19/ 2011	Retina and Vitreous
05/26/ 2011	Minimally Invasive Surgery in Ophthalmology
01/12/ 2011	Vitreoretinal Surgery
12/08/ 2010	Diseases of the Vitreous
11/19/ 2008	Retinal Vascular and Inflammatory Diseases
10/29/ 2008	Retinal Detachment and Trauma

UCLA Interdepartmental Lectures

01/16/ 2014	“Robotic Surgery in Ophthalmology” Institute of Pure and Applied Mathematics Los Angeles, NSF Math Institute, UCLA
11/05/ 2012	“Intraocular Robotic Surgery” C101. Introduction to Biomedical Engineering, Henry Samueli School of Engineering & Applied Science, UCLA
11/01/ 2012	“The Future of Ophthalmology: Brief Overview of the current research projects on Eye Robotic Surgery, Surgical Modelisation and the Electromagnetically Driven Eye Prosthesis” BE 299. Seminar, Henry Samueli School of Engineering & Applied Science, UCLA

- 03/07/ 2012 “Retinal Disorders”
JSEI Ophthalmic Assistant Training Program,
Jules Stein Eye Institute, UCLA
- 11/21/ 2011 “Basic Human Biology for Biomedical Engineers I”
C101. Introduction to Biomedical Engineering,
Henry Samueli School of Engineering & Applied Science, UCLA
- 05/16/ 2011 “Minimally Invasive Surgery in Ophthalmology”
M172. Design and Application of Minimally Invasive Surgical Tools,
Henry Samueli School of Engineering & Applied Science, UCLA

Participation in the Training of the Retina Fellows of the Retina Department

National Retina & Vitreous Fellows Trained..... Current Affiliation

- Kirk Hou (2019-2021) Current fellow JSEI
- Adam Weiner (2019-2021) Current fellow JSEI
- Gui Wei (2018-2020) Current fellow JSEI
- Niranjan Manoharan (2018-2020) Current fellow JSEI
- Jason Mingy Huang (2017-2019) Retina Group of Washington
Washington, DC
- Nikisha Kothari (2017-2019) Retina Associates
Dallas, TX
- Christian Sanfilippo (2016-2018) The Retina Partners
Santa Monica, CA

Jean – Pierre Hubschman, MD

Sanket Shah (2016-2018) Miramar Eye Specialists
Ventura, CA

Robert Lalane (2015-2017) Augusta, GA

Aaron Nagiel (2015-2017) Keck School of Medicine of USC
Los Angeles, CA

Elizabeth Richter (2014-2016) Retina Associates of Sarasota
Sarasota, FL

Michael Klufas (2014- 2016) Wills Eye Retina Surgeons
Cherry Hill, NJ

Ryan Wong (2013-2015) Retina Centers, P.C.
Tucson, AZ

Sujit Itty (2013-2015) Retina Consultants of Arizona
Phoenix, AZ

Joshua Udoetuk (2012-2014) Kelsey-Seybold Clinic
Houston, TX

David Cupp (2012-2014) Retinal Consultants
Sacramento, CA

Vinod Voleti (2011-2013) New Jersey Retina Group
Belleville, NJ

Carolyn Pan (2011-2013) Byers Retina Group
Stanford, CA

Christopher Gee (2010–2012) Salt Lake Retina
West Jordan, UT

Adriana Ramirez (2010–2012) Kaiser Permanente
Fontana, CA

Allen Hu (2009–2011) Private practice
Seattle, WA

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Pradeep Prasad (2009–2011)	Jules Stein Eye Institute (UCLA) Los Angeles, CA
Atul Jain (2008–2010)	Private practice San Diego, CA
Irena Tsui (2008–2010)	Jules Stein Eye Institute (UCLA) Los Angeles, CA
Robert Coffee (2007–2009)	Carolina Retina & Vitreous Charlotte, NC
Shantan Reddy (2007–2009)	Langone Medical Center (NYU) New York, NY
Eric Lee (2006–2008)	Kaiser Permanente Washington, DC
Scott Oliver (2006–2008)	Director of Eye Cancer Program University of Colorado Boulder, CO

International Retina & Vitreous Fellows Trained **Affiliation**

Mercedes Rodriguez (2019-2020)	Current fellow JSEI
Moritz Pettenkofer (2019-2020)	Current fellow JSEI
Ismael Chehaibou (2018-2019)	France
Anibal Francone (2015-2017)	Argentina
Eva Platner (2015-2017)	Israel
Andrea Govetto (2015-2017).....	Milan, Italy
Tatsuhiko Sato, M.D., Ph.D. (2013 – 2014).....	Hayashi Eye Hospital Tokyo, Japan

Jean – Pierre Hubschman, MD

Po-Chen Tseng, M.D. (2013 – 2014).....Taipei, Taiwan

Maria Silvana Pellice, M.D. (2013 – 2014)..... Argentina

Hamid Hosseini (2012 - 2017) Jules Stein Eye Institute (UCLA)
Los Angeles, CA

David Rivera-De La Parra, M.D. (10/12 – 9/13) Fundación Conde de Valencia
Mexico City, Mexico

Kentaro Nishida (2010–2012) Osaka National Hospital
Osaka city, Japan

Valentina Franco-Cardenas (2010–2012) Hospital Angeles Lomas
Mexico City, Mexico

Gad Heilweil (2009-2012) Jules Stein Eye Institute (UCLA)
Los Angeles, CA

Jean-Louis Bourges (2008–2009) Hôtel Dieu Hospital
Paris, France

Andrew Kaines (2008–2009) Kingsway Medical Centre
Australia

Thesis Committee Participation at the Henry Samueli School of Engineering, UCLA

Doctor of Philosophy Candidate Thesis Title

Aysan Rangchian (2/2020)	“Time dependent degradation of vitreous gel under enzymatic reaction”
Matt Gerber (11/2019)	“Optical Coherence Tomography {Guided Robotic System for Automated Retinal Microsurgery }

Jean – Pierre Hubschman, MD

Cheng-Wei Chen (5/2018)	“Automation and Precision Control for Intraocular Robotic Interventional Surgical System”
Ethan Young (12/2015)	“Numerical Simulations of the Mechanics of Vitrectomy”
Pooria Kashani (2/3/2012)	“Viscoelastic Properties of the Vitreous Gel and its Relationship to Ocular Pathologies”
Jason Tomas Wilson (11/18/2011)	“An Intraocular Robotic Interventional Surgical System – IRISS”
Tingting Juan (9/28/2011)	“A Computational Study of the Flow Through a Vitreous Cutter”

Proctoring at Olive View Medical Center

2008 – Present Proctoring of 4 Residents (one first-year, one second-year, and two third-years) and one Retina Fellow every Monday at Olive View Medical Center.

Proctoring at Jules Stein Eye Institute

2008 – Present Proctoring of 1 third year Resident every Tuesday afternoon

Proctoring Undergraduate Students

July 2017	Daniella Iezza, Undergraduate University of Notre Dame, Indiana
May 2017	Meg LaRocca, Undergraduate UC Los Angeles

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August 2011	David Apap, Undergraduate University of Nevada, Reno
June - August 2011	Jasmine Verret, Undergraduate University of California, Berkeley
June - August 2009	Kevin Tsao, High School Student Mira Costa High School
May - July 2009	Tiffany Liu, Undergraduate Pomona College

Proctoring Graduate Students

September 2016 – November 2016	Alin Megerdichian Physiological Sciences Major UC Los Angeles
September 2014 – September 2015	Matthew Farajzadeh UC Los Angeles, graduated in 2014
March 2013 – September 2014	Yann Dacquay, M.S., Clinical Psychology Pepperdine University, graduated 2014

Proctoring Summer Medical Students

May 2019- August 2019	Robert Gunzenhauser, Medical Student Wake Forrest medical school
July 2017- September 2017 June 2016 – August 2016	Matthew Farajzadeh, Medical Student Sackler School of Medicine

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August 2016- present	Lisa Yun, 2nd year Medical Student UC Los Angeles
May 2016- August 2016	Robert Gunzenhauser, Medical Student Wake Forrest medical school
June 2014 – August 2014	Anna Bouzaglou, Medical Student Paris 7 University, France
May 2014 – July 2014	Zachary A. Koretz, Medical Student Tulane University
June 2013 – July 2013	Jennie Weinkle, Medical Student University of Miami
May 2013 – July 2013	Renuka Rudra, Medical Student Pennsylvania State University
January 2013 – May 2013	John Wells, IV Medical Student Emory University Medical School
November 2012 – April 2013	Franck Amouyal, M.D. Marseille University, France
October 2012 – April 2013	Michael Koenig B.A., M.D. Ph.D. Candidate Ohio State University College of Medicine
August 2012 – June 2013	Sanket Shah, M.D. Indiana University
July 2012 – August 2012	Sam Abbassi M.S., M.D. University of California, Davis
November 2010 – June 2011	Bethsabee Sabbah, B.A., M.A. University of Southern California
January – February 2010	Basil Williams, Medical Student Chicago Medical School

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July – August 2010	Arnaud Franceschi, Medical Student Faculte de Medicine de Maeseille, France
July – August 2010	Tiffany Liu, Medical Student University of California, Irvine
January 2009 – July 2010	Daniel Sassoon, B.S. University of the Pacific
June - July 2008	Arash Mozayan Isfahani, M.D. Albert Einstein College of Medicine

Proctoring Engineering Students

2017- 2019	Alexandre Tiard, PhD Engineering- Computer science UC Los Angeles School of Engineering
2015- Present	Sahba Aghajani Pedram, Mechanical Engineering UC Los Angeles School of Engineering
2015- Present	Chang Yeoh Shin Ph.D. Mechanical Engineering UC Los Angeles School of Engineering
2015- Present	Peter Walker Ferguson Ph.D. Mechanical Engineering UC Los Angeles School of Engineering
2014-2019	Cheng Wei Chen Ph.D. Mechanical Engineering UC Los Angeles School of Engineering
2014-2019	Yu- Hsu Lee Ph.D. Mechanical Engineering UC Los Angeles School of Engineering

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2014-2019	Matthew Gerber, Ph.D. Mechanical Engineering UC Los Angeles School of Engineering
2014- 2018	Yan Chao Yang, Ph.D. Mechanical Engineering UC Los Angeles School of Engineering
2014 – 2016	Kelly Theresa, Ph.D. Mechanical Engineering UC Los Angeles School of Engineering
July - August 2014	Ilana Partouche, Undergraduate Student ECE Paris, France
2012 – 2013	Ryan Freeman, Ph.D. Mechanical Engineering UC Los Angeles School of Engineering
2012 - 2014	Mayuri Panse Graduate Student Masters in Biomedical Engineering UC Los Angeles School of Engineering
2012 - 2014	Rommina Vedad Ghavami, Undergraduate Student UC Los Angeles School of Engineering
2010 – 2015	Ethan Young, Ph.D. Mechanical Engineering UC Los Angeles School of Engineering
2009-2013	Jason Tomas Wilson, Ph.D. Mechanical Engineering UC Los Angeles School of Engineering
2010 – 2012	Pooria Sharif Kashani, Ph.D. Mechanical Engineering UC Los Angeles School of Engineering

LECTURES & PRESENTATIONS

International Invited Presentations

1. Vitreous dislocation of the lens nucleus
Phacomania
Aix en Provence, France, November 15, 1994
2. New ways of exploring the macula in 1995
XIII th International Congress of Marseille
Marseille, France, October 1995
3. Aging well though sight is failing
Health Forum on the Basque Coast
Bayonne, France, June 18, 1999
4. Are a patient with myopia's new vessels a good indication for surgery?
Retina Biarritz 1999
Biarritz, France, October 8, 1999
5. Surgical treatment of ARMD: current techniques and prospects
EPU
Biarritz, France, June 10, 1999
6. Eye and diabetes
EPU
Biarritz, France, April 28, 2000

7. Macular translocation thanks to scleral folding: indications and results
Introduction to some clinical ARMD cases
Neovascularization and macula 2000
Lille, France, January 12, 2000
8. Introduction to some clinical ARMD cases: reasoned behavior before a case
of a retrofoveal neovascularization, Exudative ARMD: what treatment to
offer in the year 2000?
International Vitreo-Retinal Congress
Marseille, France, June 17, 2000
9. Complications related to the short and long-term posterior segment
Refractiva Biarritz
Biarritz, France, September 23, 2000
10. Malignant myopia and “maculopathie”
Ophthalmologic discussion groups
Paris, France, December 8, 2001
11. Retinal detachments: examinations and clinical particularities
Malignant myopia: a sword of Damocles
Montpellier, France, June 16, 2001
12. 2001 Ablation of the internal limiting membrane of the macular membranes
and macular holes
77th Congress of the Sociedad Española de Oftalmología
Barcelona, Spain, September 27, 2001
13. Ablation of the macular elastica interna made easier by infracyanine
Epi macular membranes: Who’s who?
Le Touquet, France, April 7, 2001
14. Indocyanine green and internal limiting membrane
Retina Biarritz 2001
Biarritz, France, October 27, 2001
15. How to react when a nucleus or an implant falls to the bottom?
Francophone Club of Vitreo Retinal Surgery
Paris, France, May 13, 2002

16. Retinal surgery: when there's no harm done
Ophthalmology discussion meeting
Paris, France, December 14 2002
17. ARMD surgery: translocations
New ARMD treatments into practice, Francophone Club of Vitreo Retinal
Surgery, Paris, France, May 10 2002
18. Surgical strategy for macular hematomas Choroidal neovessels:
Overview 2002
Lille, France, June 22 2002
19. ARMD laser treatments
EPU - La vie devant soi (Life before us)
Biarritz, France, November 23 2002
20. Retinal detachment in the shape of a horse-shoe tear
Ophthalmological continuing education Association Lorraine (FOCAL)
Nancy, France, November 15 2002
21. Introduction to the TSV 25 system and comparison between High-speed
vitrectomy and Pneumatic vitrectomy, French Society of Ophthalmology
Paris, France, May 12 2003
22. Wide field systems: updates
Francophone Club of Vitreo Retinal surgery
Paris, France, May 12 2003
23. TSV 25: a major innovation
Francophone Club of Vitreo Retinal surgery
Paris, France, May 12 2003
24. When can you perform a vitrectomy as a primary treatment of retinal
detachment?
Scleral buckle, pneumatic retinopexy or vitrectomy for primary treatment of
retinal detachment – Round panel
European Society of Ophthalmology (SOE)
Madrid, Spain, June 11 2003

25. 25-gauge vitrectomy system and retinal detachment
"Actualizacion en la patologia quirurgica de vitreo-retina, TSV 25 la vitrectomia transconjunctival sin sutura "
European Society of Ophthalmology (SOE)
Valencia, Spain, October 8 2003
26. Neurotomy and central retinal vein occlusion
Retina Biarritz 2003
Biarritz, France, October 17 2003
27. Transconjunctival standart vitrectomy system
Retina Biarritz 2003
Biarritz, France, October 18 2003
28. Retinal deterioration: research updates, current experiments and therapeutic indications
General Meeting of the RETINA Association
Anglet, France, May 8 2003
29. Joint lens and posterior segment surgery
Francophone Club of Vitreo Retinal surgery
Paris, France, May 10 2004
30. Treatment of retinal detachment thanks to transconjunctival vitrectomy using the 25G technique
Curso nacional de vitreo retina - Hospital La Paz
Madrid, Spain, June 12 2005
31. 20, 23 or 25 Gauge: What is the best?
Retina Biarritz
Biarritz, France, October 8 2005
32. Interest of the intra- vitreal Triamcinolone Acetonide injection in the retinal vein occlusion
Francophone Club of Vitreo Retinal surgery
Paris, France, May 8, 2006
33. Comparison of the different vitrectomy systems
Francophone Club of Vitreo Retinal surgery
Paris, France, May 8 2006

34. What retinopexy technique for which retinal detachment.
Francophone Club of Vitreo Retinal surgery
Paris, France, May 8 2006
35. A new step in sutureless vitrectomy technique
European VitreoRetinal Society meeting
Sopron, Hungary, September 11, 2006
36. 20, 23 and 25 gauge vitreous cutters: Performances and characteristics
evaluation.
Retina Biarritz
Biarritz, France, October 12 2007
37. Robotic vitreal surgery
Retina Biarritz
Biarritz, France, October 12 2007
38. Pascal Laser (pattern scanning Laser)
Retina Biarritz
Biarritz, France, October 12 2007
39. Evaluation of surgical motion using sensors during ocular surgery.
Computer aided surgery around the head.
Paris, France, November 2009
40. Eye robotic surgery: Computer aided surgery around the head.
Paris, France, November 2009
41. Augmented Reality of Ophthalmology
Club Jules Gonin
Kyoto, Japan, September 2010
42. Augmented reality of ophthalmology
Retina Biarritz
Biarritz, France, September 16 2011
43. What is the place of the endoscopic techniques in 2011?
Retina Biarritz
Biarritz France, September 16 2011

44. The IRISS Ocular Robotic Surgical Platform
Retina Society
Rome, Italy
September 2011
45. Vitreous floaters, when should we consider surgery?
Retina Biarritz
Biarritz France, September 16 2011
46. The stem cells in AMD
Congress Francophone des specialists de la retine
Paris, France, April 27, 2012
47. Eye robotic surgery
Societe Francaise de Retina
Paris, France, April 29 2012
48. The wide field FA
Societe Francaise d' ophthalmology
Paris, France, April 29 2012
49. New developments for vitreoretinal diseases
Advanced Vitreoretinal Congress Antwerp
Antwerp, Belgium, March 8 2013
50. L'avenir de la Photocoagulation: l'apport de la Réalité Augmentée
Societe Francaise d' ophthalmology
Paris, France, May 11, 2013
51. Human Embryonic Stem Cell RPE Transplant for AMD and Stargardt
Euretina – European Society of Retina Specialists
Rome, Italy, January 25 2014
52. Retinal implants & grafts: News
Retina Biarritz, Biarritz France
October 9, 2015
53. Atrophic AMD: treatment perspectives
Retina Biarritz, Biarritz France
October 10, 2015

54. Lamellar macular hole: Two distinct entities
Euretina 2016
Copenhagen, Denmark, September 9, 2016
55. Future of Retinal Laser therapy
Euretina 2016
Copenhagen, Denmark, September 14, 2016
56. Insight into Epiretinal Membrane Evolution: Presence of Ectopic Inner Foveal Layers and a new Optical Coherence Tomography
Fernie Meeting
Canada, January 23, 2017
57. Microcystic macular changes in association with epiretinal membranes and glaucomatous optic neuropathy: clinical and surgical insights
Macula society
Singapore
June 2017
58. Surgical technique development in three animal models for a subretinal wireless chip implantation (Prima)
17th Euretina Congress
Barcelona, Spain, September 7, 2017
59. Surgical technique development in three animal models for a subretinal wireless chip implantation (Prima)
EVRS
Florence, Italy, September 8, 2017
60. Safety of retinal stimulation by wireless photovoltaic sub-retinal prosthesis
17th Euretina Congress
Barcelona, Spain, September 9, 2017
61. Imaging modalities for the evaluation of retinal vascular diseases
Magrabi ICO Cameroon Eye Institute (MICEI)
Yaoundé, Africa, December 2017
62. Surgical peeling of epiretinal membranes. Mind the Muller Cells
Fifth International OCT Angiography and “En Face” OCT Congress
Rome, Italy, December 15-16, 2017

63. Medicina Robotica, Implante de Celulas Madre y Realidad Amploda
Buenos Aires, Argentina, April 16, 2018
64. Robotic Surgery
Resistencia Chaco, Argentina, April 17, 2018
65. ERM and OCT biomarkers
Advanced Retinal Teaching (ART) 2018 of the Medical University Vienna
Vienna, Austria, December 1, 2018
66. ERM and Lamellar Macular Holes
The Royal College of Ophthalmologist
Glasgow, United Kingdom, May 23, 2019
67. Lamellar holes: degenerative versus tractional, pre retinal proliferation, non
myopic tractional maculoschisis
Euretina Paris
Paris, France, September 5, 2019
68. Toward Vitreoretinal Robotic Surgery
Retina Experts Meeting
Mumbai, India, December 14, 2019
69. ERM and OCT Biomarkers
Aravind Hospital
Madurai, India, December 17, 2019
70. Eye Robotic Surgery
Aravind Hospital
Pondicherry, India, December 20, 2019
71. Robotic Eye Surgery
Young Ophthalmologist: Innovation in Ophthalmology
Delhi, India, December 22, 2019
72. Automated Retinal Vein Cannulation
St Christoph Meeting
Wengen, Switzerland, January 26, 2020

Domestic Invited Presentations

1. Robotic vitreoretinal surgery
Paper presentation, JSEI Clinical and Research seminar
Los Angeles, JSEI, UCLA
May 18, 2007

2. Robotic ocular surgery
Extraordinary Ophthalmology of Madison
Madison, Wisconsin
September 2008

3. Retina Research Update
Paper presentation, JSEI Clinical and Research seminar
Los Angeles, JSEI, UCLA
June 12, 2009

4. Augmented Reality in Ophthalmology
Paper presentation, JSEI Clinical and Research seminar
Los Angeles, JSEI, UCLA
May 14, 2010

5. Update in Eye Robotic surgery
Paper presentation, JSEI Clinical and Research seminar
Los Angeles, JSEI, UCLA
June 10, 2011

6. Vitreous Dynamics in Various Disease States
Presentation, JSEI Clinical and Research seminar
Los Angeles, JSEI, UCLA
June 8, 2012

7. New Evaluation and Treatment in Retinal Vein Occlusion
Presentation, Research Study Club of Los Angeles
Los Angeles, California
February 9, 2013

8. International Retinal Imaging Symposium
Presentation, JSEI Angiography: Clinical Seminar
Los Angeles, JSEI, UCLA
February 26, 2013

9. Robotic Surgery in Ophthalmology
Institute of Pure and Applied Mathematics
Los Angeles, NSF Math Institute, UCLA
January 16, 2014
10. Subretinal Delivery of Stem Cell Therapy: A Clinical Perspective
Subretinal Cell & Gene Therapy Innovation Summit
Las Vegas, NV
November 13, 2015
11. Posterior complications of cataract surgery; macular surgery with
interactive cases
Los Angeles, JSEI, UCLA
October 5, 2016
12. Panel: Macular Surgery
Retina World Conference
Fort Lauderdale Florida
February 23, 2017
13. Persistent pseudocysts after ERM surgery
Fifth Annual IRIS
Los Angeles, Tamkin Auditorium, UCLA
March 25, 2017
14. The future of Robotic Eye surgery
VBSV meeting
Las Vegas, Nevada
April 7, 2017
15. Insight of ILM peeling: A Muller cell persepective
Doheny Eye Institute
Los Angeles, CA
February 3, 2018
16. Microcystic Maculopathy: OCT Imaging to Guide Surgical Prognosis
International Retinal Imaging Symposium 2018
Los Angeles, CA
February 20, 2018

17. Age Related Macular degeneration and Robotic surgery
Grand Rounds, JSEI, Los Angeles
April 2018
18. Eye Robotic Surgery
Herbert Eye Institute
Irvine, CA
May 23, 2018
19. Vitreoretinal Robotic Surgery
AAO, Subspecialty day
San Francisco, CA
October 12, 2019
20. Eye Robotic Surgery
“The Evolution and Effect of Genomic Medicine, Blockchain,
and Robot-assisted Surgery on the Practice of Ophthalmology”
AAO, AMA symposium Ophthalmology Section Council
San Francisco, CA
October 14, 2019
21. Eye Robotic Surgery
Ketchum School
Fullerton, CA
January 12, 2020

Other Presentations & Lectures

1. About a case of Histiocytosis X
Meeting of the Society of Ophthalmology of the Midi (south-east France)
Marseille, France
December 1992.
2. Images of microperimetries in age-related macular degeneration
Meeting of the Society of Ophthalmology of northern France
Lille, France
January 1993

3. Transcleral photocoagulation and diode laser trans-indentation
French Society of Ophthalmology
Paris, France
May 1993
4. Total both-sides ophthalmoplegia, about 2 cases
Society of Oto-Neuro-Ophthalmology of northern France
Lille, France
April 1994
5. Comparing microperimetric and angiographic images in age-related macular deterioration
French Society of Ophthalmology
Paris, France
May 1994
6. Intra-ocular lymphomas, about 2 cases
Meeting of the Society of Ophthalmology of the Midi
Toulouse, France
December 10, 1994
7. Multiple endocrine neoplasia, Gorlin's syndrome
Meeting of the Society of Ophthalmology of the Midi
Toulouse, France
December 10, 1994
8. Macular complications in congenital abnormalities of the optic disk
Meeting of the Society of Ophthalmology of the Midi
Montpellier, France
April 1, 1995
9. Interest of vitrectomy in post-op Endophthalmitis, study based on 28 cases
French Society of Ophthalmology
Paris, France
May 1995
10. Complete both-sides ophthalmoplegia at the origin of which a tumor, about 2 cases. French Society of Ophthalmology,
Paris, France
May 1995

11. Fluorescein and Indocyanine-green angiographic exploring of retinitis in HIV positive patients
I.S.F.A
St Gall, Great Britain
September 1996
12. Excimer phototherapeutic keratectomy in corneal dystrophies
Displayed presentation given at the C.L.A.O Congress,
Las Vegas, NV- Award BAUSCH and LOMB
January 1997
13. Radiotherapy in age-related neovascular membranes: a prospective study
JERMOV
Montpellier, France
September 1996
14. ARMD: macular aging and DHEA
JERMOV
Montpellier, France
September 1996
15. Contribution of color Doppler imaging in the diagnosis of choroidal melanoma
JERMOV
Montpellier, France
September 1996
16. Contact diode laser cyclo-photocoagulation in the treatment of neovascular glaucoma
JERMOV
Montpellier, France
September 1997
17. Use of PTFE (gore tex) patch in corneal perforation
JERMOV
Montpellier, France
September 1997

18. Phacoemulsification to the rescue of Phacoemulsification
ASCRS
San Diego, CA
April 18, 1997
19. Measuring by color doppler imaging of the blood velocity in the central
artery of retina and macular choroidal circulation in patients with ARMD
JERMOV
Montpellier, France
September 1997
20. Phacoemulsification to the rescue of Phacoemulsification
French Society of Ophthalmology
Paris, France
May 17, 1998
21. Aesthetic blepharoplasties follow-up
French Society of Ophthalmology
Paris, France
May 18, 1998
22. Surgical ablation of the sub-retinal neovascular membranes in
age-related macular degeneration
French Society of Ophthalmology
Paris, France
May 18, 1998
23. Surgical biopsy and extemporaneous anatomic-pathological
examination in orbital palpebral tumors
French Society of Ophthalmology
Paris, France
May 19, 1998
24. Optical neuritis due to demyelination and Von Recklinghausen disease: links
French Society of Ophthalmology
Paris, France
May 18, 1998

25. Age-related macular degeneration: computer-assisted imaging to help diachrome analysis
French Society of Ophthalmology
Paris, France
May 20, 1998
26. Tripode IOL implantation in phacoemulsification combined with pars plana vitrectomy
ASCRS
Boston, MA
May 21, 2000
27. Wide field viewing system and illuminated scleral depressor
EVRS Congress
Biarritz, France
October 27, 2001
28. Vitreoretinal complications after refractive surgery
EVRS Congress
Chaldiki, Greece
June 1- 4, 2002
29. Lasers in Ophthalmology
ASCRS Course sponsored by Quantel medical
Philadelphia, PA
May 31, 2002
30. Interest of the 25 Gauge technique in successive surgeries for Retinal detachment with PVR
EVRS
Sopron, Hungary
September 13- 16, 2003
31. 20, 23 and 25 gauge vitreous cutters: Performances and characteristics evaluation.
Retina society
Boston, MA
September 27, 2007

32. Vitreous cutter Performance evaluated: 20, 23, 25-gauge Comparison of Characteristics
ASRS
Palm Springs, CA
December 4 2007
33. Robotic Vitreoretinal Surgery
ASRS,
Palm Springs, CA
December 3 2007
34. Hexapod Surgical System: systeme d'aide robotisee.
Societe Francaise d'Ophtalmologie
Paris, France
May 9 2008
35. Mouvements des instruments microchirurgicaux lors de la chirurgie endoculaire.
Societe Francaise d'Ophtalmologie
Paris, France
May 9 2008
36. Interpreter l'OCT du pole posterieur
Societe Francaise d'Ophtalmologie
Paris, France
May 9 2008
37. Angiographic Ischemic Index in central Retinal Vein Occlusion may be Predictive of Neovascular Complication.
Retina Society,
New York, NY
September 2009
38. Keratoplastie transfixiante assistee par un systeme robotique
Societe Francaise d'Ophtalmologie
Paris, France
May 10, 2010
39. Evaluation of Augmented Reality in Ophthalmology
Retina Society
San Francisco, CA
September 2010

41. Postoperative Posterior Segment Complications in Eyes Treated with the Boston Type I Keratoprosthesis
ASRS
Las Vegas, NV
August 2012
42. Postoperative Posterior Segment Complications in Eyes Treated with the Boston Type I Keratoprosthesis
AAO APAO Joint Meeting
Chicago, IL
November 2012
44. Insight into Lamellar Macular Holes: Two Distinct Clinical Entities
ARVO 2016 Annual Meeting
Seattle, WA
May 2, 2016
45. Feasibility of Peg-Derivated Polymer as Retinal Sealant to Repair Breaks During Vitrectomy for Rhegmatogenous Retinal Detachment in a Porcine Model: A Prospective, In-Vivo Pilot-Study
Thirtieth Meeting of the Club Jules Gonin,
Bordeaux, France
July 6, 2016
46. Stem Cell Derived Retinal Pigment Epithelial Transplantation Trials in Patients with Macular Degenerations: Long-Term Phase 1-2 Safety results
Thirtieth Meeting of the Club Jules Gonin,
Bordeaux, France
July 6, 2016
47. Lamellar Macular Hole: Two Distinct Clinical Entities?
Retina Society Meeting
San Diego, CA
September 14, 2016
48. Persistent Pseudocysts after ERM Surgery
IRIS
Los Angeles, CA
March 25, 2017

50. Microcystic macular changes in association with idiopathic epiretinal membranes: clinical and surgical insights.
50th Annual Retina Society Meeting
Boston, MA
October 07, 2017
51. Microcystic Maculopathy: OCT Imaging to Guide Surgical Prognosis
IRIS
Los Angeles, CA
February 20, 2018
52. Lamellar Macular Holes associated with Age-Related Macular Degeneration
Macula society
Beverly Hills, CA
February 22, 2018
53. New Findings in Fellow Eyes of Lamellar Macular Holes
IRIS
Los Angeles, CA
March 16, 2019
54. Epiretinal proliferation in Retinal Diseases
IntRIS
Los Angeles, CA
March 16, 2019
55. Work-up of metamorphopsia for clinical decision making: flow chart and case studies
SIG – Metamorphopsia
ARVO
Vancouver, Canada
April 30, 2019
56. Update on Robotic Surgery
SIG on Eye Robotic Surgery
ARVO
Vancouver, Canada
May 1, 2019

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1. DEVIN F., HUBSCHMAN J.P., BARUGEL E., SARACCO J.B.
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5. HUBSCHMAN J.P.
Comparison of different vitrectomy systems.
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10. MULGAONKAR A.P., HUBSCHMAN J.P., BOURGES J.L., JORDAN B.L., CHAM C., WILSON J.T., TSAO T.C., CULJAT M.O.
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Stud Health Technol Inform. 2009; 142: 215-7
11. SON J., BOURGES, J.L., CULJAT M.A., NISTOR V., DUTSON E.P., CARMAN G.P., HUBSCHMAN J.P.
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12. SHAH S.P., HUBSCHMAN J.P., GONZALES C.R., SCHWARTZ S.D.
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13. HUBSCHMAN J.P., BOURGES J.L., TSUI I., REDDY S., YU F., SCHWARTZ S.D.
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18. PRASAD P.S., OLIVER S.C., COFFEE R.E., HUBSCHMAN J.P., SCHWARTZ S.D.
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19. TSUI I., SCHWARTZ S.D., HUBSCHMAN J.P.
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20. JAIN A., COLLEN J., KAINES A., HUBSCHMAN J.P., SCHWARTZ S.D.
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40. HUBSCHMAN J.P., WILSON J., TSAO T.C., SCHWARTZ S.D.
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41. FRANCO-CARDENAS V., GEE C.J., APPAP D., NISHIDA K., RAMIREZ A., PEREZ-ROVIRA A., ZUTIS K., SCHWARTZ S.D., TRUCCO E., HUBSCHMAN J.P.
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42. SHARIF-KASHANI P., NISHIDA K., FREEMAN R., KAVEHPOUR H., SCHWARTZ S.D., HUBSCHMAN J.P.
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Poster Presentation #14, Retina Society, Beverly Hills, September 2013
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Poster Presentation #29, Retina Society, August 2014
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Evaluation of an Adhesive Biopolymer for the Treatment of Retinal Detachment in Rabbit Eyes
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56. SARFARE SHANTA, DACQUAY YANN, HABIB SAMER, EDDINGTON SHANNAN, TRAVIS GABRIEL H., NUSINOWITZ STEVEN, ASKARI SYED, HUBSCHMAN J.P.
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Impact of the presence of an Epi-Retinal Membrane on patients with Retinal Vein Occlusion treated with Intravitreal anti-VEGF therapy
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Spectrum of Retinal Vascular Diseases Associated With Paracentral Acute Middle Maculopathy
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60. GOVETTO ANDREA, HOSSEINI HAMID, SCHWARTZ STEVEN, HUBSCHMAN J.P.
Insight into lamellar macular holes: two distinct clinical entities
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61. GHASEMI FALAVARJANI K, IAFE NA, HUBSCHMAN JP, TSUI I, SADDA SR, SARRAF D
Optical Coherence Tomography Angiography Analysis of the Foveal Avascular Zone and Macular Vessel Density After Anti-VEGF Therapy in Eyes With Diabetic Macular Edema and Retinal Vein Occlusion
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Insights into epiretinal membranes evolution: presence of continuous ectopic inner foveal layers and a new optical coherence tomography staging scheme
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63. SU DANIEL, GOVETTO ANDREA, FARAJZADEH MATTHEW, MEGERDICHIAN ALIN, PLATNER EVA, HUBSCHMAN JP
Association Between Glaucoma and Microcystic Macular Edema in Patients with Epiretinal Membranes
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Lamellar Macular Holes associated with Age-related Macular Degeneration
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65. HUBSCHMAN JP, Yun LISA, FRANCONI ANIBAL, FARAJZADEH MATTHEW
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67. RANGCHIAN A, FRANCONI A, FARAJZADEH M, HOSSEINI H, CONNELLY K, HUBSCHMAN JP, KAVENPOUR P
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Conference Proceedings

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Conf Proc IEEE Eng. Med Biol Soc. 2010; 1:3021-4

2. PEREZ-ROVIRA A., ZUTIS K., HUBSCHMAN J.P., TRUCCO E.
Improving vessel segmentation in ultra-wide field-of-view retinal fluorescein angiograms
Conf Proc IEEE Eng. Med Biol Soc. 2011; 2011:2614-7
3. ZUTIS K, TRUCCO E, HUBSCHMAN JP, REED D, SHAH S, VAN HEMERT J.
Towards automatic detection of abnormal retinal capillaries in ultra-wide field-of-view retinal angiographic exams
Conf Proc IEEE Eng. Med Biol Soc 2013; 2013:7372-5

Other Professional Activities

Development of Vitreo-Retinal instrumentation with industry:

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| 2006 | Development of a new sutureless vitrectomy technique: “Combined sutureless Vitrectomy Technique” in cooperation with D.O.R.C. ® Inc. (The Netherlands) |
| 2005 | One 25 gauge forcep for epi-retinal membrane peeling in cooperation with Synergetic ®, Inc. (USA) |
| 2002 | One 20 gauge sub-retinal forcep for sub-retinal neovascular membrane extraction (2002) in cooperation with D.O.R.C. ® Inc. (The Netherlands) |

Volunteer Activities:

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| 2015 | Care Harbor 2015, October 15-18 2015
Los Angeles Sports Arena, Los Angeles, CA |
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