



## Dr. med. Arthur Hammer

**MD-PhD, FEBO, FEBOS-CR, CertLRS, PGDip-CRS, FWCRS**  
Specialist FMH in ophthalmology and ophthalmosurgery

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### Languages

EN,FR

### Work Experience

- since 2023 Registered doctor, Clinique de Montchoisi and Swiss Visio Beau-Rivage, Lausanne, Switzerland
- since 2023 Private practice under individual responsibility, Montbenon Ophthalmology Practice, Lausanne, Switzerland
- since 2021 Private practice under individual responsibility, Dr Tabibian Ophthalmology Practice, Geneva, Switzerland
- 2023-2024 Hospital Practitioner, Jules Gonin Ophthalmic Hospital, Cornea and Refractive Surgery Unit, Department of Ophthalmology, CHUV, Lausanne, Switzerland
- 2023-2024 Bank Consultant Ophthalmologist, Moorfields Eye Hospital NHS Foundation Trust, Cornea, External Diseases and Refractive Surgery Department, London, United Kingdom
- 2021-2023 Cornea, External Diseases and Refractive Surgery Fellow, Moorfields eye hospital NHS Foundation Trust, Department of Cornea, External Diseases and Refractive Surgery, London, United Kingdom
- 2020-2021 Cataract Fellow, Moorfields eye hospital NHS Foundation Trust, Cataract Service, London, United Kingdom
- 2018-2020 Speciality Trainee (ST4-5), North West Anglia NHS Foundation Trust, Peterborough City Hospital - Department of Ophthalmology, Peterborough, United Kingdom
- 2015-2018 Speciality trainee (ST1-3), Jules Gonin Ophthalmic Hospital, CHUV Department of Ophthalmology, Lausanne, Switzerland

### Education

- 2024 FEBOS-CR / EBO-ESCRS subspecialty specialist diploma in cataract and refractive surgery
- 2023 Certificate in Laser and Refractive Surgery (CertLRS), Royal College of Ophthalmologists, London, United Kingdom
- 2023 Postgraduate Diploma in Cataract and Refractive Surgery (PGDip CRS), obtained with distinction, Ulster University, Northern Ireland
- 2022 Swiss Federal Postgraduate Diploma (FMH) in advanced training in ophthalmic surgery
- 2020 Swiss Federal Postgraduate Diploma (FMH) in Specialist Ophthalmology
- 2015 MD-PhD in cornea and refractive surgery (Cross-linking of the cornea: limitations, molecules involved and effect on corneal oedema)

## Competences

- Cataract surgery
- Yag laser surgery for secondary cataract (laser capsulotomy)
- YAG laser surgery for peripheral iridotomy
- Excimer/femtosecond laser surgery for myopia, hyperopia, astigmatism and presbyopia (LASIK, PRK, LBV-Presbyond)
- Intraocular surgery for myopia, hyperopia, astigmatism and presbyopia (ICL - Implantable Collamer Lens, clear lens extraction)
- Secondary intraocular lens implantation surgery (Sulcoflex, ICL, Artisan)
- Intraocular lens exchange surgery (intolerance to multifocal intraocular lenses, opacified or unstable intraocular lens)
- Therapeutic refractive surgery to rehabilitate the ocular surface (PTK, TransPTK, TransPRK/CXL, TransPTK/CXL, superficial keratectomy)
- Surgery for keratoconus and corneal ectasia (Cross-linking of corneal collagen-CXL, Intracorneal rings, TransPRK/CXL, TransPTK/CXL)
- Corneal transplants (DMEK, DSAEK, PKP, DALK)
- Limbal stem cell transplants (auto-SLET, allo-SLET)
- Cauterisation of corneal neovessels
- Removal of corneal calcifications
- Excisional surgery of the pterygium and pinguecula
- Excisional surgery of conjunctivochalasis
- Excision of conjunctival lesions
- Excision of eyelid lesions (Chalazion, minor tumours, etc)
- Intravitreal injections

## Memberships

- Fédération des Médecins Helvétiques (FMH)
- Société Vaudoise de Médecine (SVM)
- Association des Médecins du Canton de Genève (AMGe)
- Société Médicale du Valais (SVMS)
- General Medical Council of United Kingdom (GMC)
- Fellow of the European Board of Ophthalmology (FEBO)
- European Society of Cataract and Refractive Surgery (ESCRS)
- ESCRS' Young Ophthalmologists For Sustainability (YOFS)
- FEBOS-CR Alumni Member
- Fellow of the World College of Refractive Surgery and Visual Sciences (WCRSVS)
- Swiss Society of Ophthalmology (SSO)

## Awards

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| 2019 | <b>ESCRS, prize for the best poster</b> in the "Refractive Surgery: Can Results Improve Even Further? session (presented by Dr Emilio Torres-Netto) |
| 2014 | <b>ASCRS, Best Paper of the Session Award</b> « CORNEA - Rings and Crosslinking », Corneal Collagen Cross Linking Oxygen Dependency                 |
| 2013 | <b>SSO/SOG Prize for the best experimental research poster</b> (CHF 1000) - CXL Oxygen Dependency   |
| 2013 | <b>Swiss National Science Foundation (SNSF) and Swiss Academy of Medical Sciences (SAMS)</b> - Scholarship for the MD-PhD Programme (CHF 180,000)   |
| 2013 | <b>ASCRS, prize of "Poster of Interest in Cornea"</b> - Corneal Biomechanical Properties at Different Fluency's (represented by Dr. Olivier Richoz) |

## Publications

- **Hammer A**, Heeren TFC, Angunawela R, Marshall J, Saha K. **A Novel Role for Corneal Pachymetry in Planning Cataract Surgery by Determining Changes in Spherical Equivalent Resulting from a Previous LASIK Treatment.** J Ophthalmol. 2023 May 31;2023
- **Hammer A**, Borruat FX. **Case Report: Multimodal Imaging of Toxic Retinopathies Related to Human Immunodeficiency Virus Antiretroviral Therapies: Maculopathy vs. Peripheral Retinopathy. Report of Two Cases and Review of the Literature.** Front Neurol. 2021 Jun 17;12:663297.
- Lopez Baumann S, Rossi DC, **Hammer A**, Chave JP, Guex-Crosier Y. **Superficial and Deep Macular Vessel Occlusion in West Nile Virus.** Klin Monbl Augenheilkd. 2019 Apr;236(4):590-593.
- Kling S, **Hammer A**, Netto EAT, Hafezi F. **Differential Gene Transcription of Extracellular Matrix Components in Response to In Vivo Corneal Crosslinking (CXL) in Rabbit Corneas.** Transl Vis Sci Technol. 2017 Dec 12;6(6):8.
- Kling S, **Hammer A**, Conti A, Hafezi F. **Corneal Cross-Linking with Riboflavin and UV-A in the Mouse Cornea in Vivo: Morphological, Biochemical, and Physiological Analysis.** Transl Vis Sci Technol. 2017 Jan 30;6(1):7.
- Tabibian D, Kling S, **Hammer A**, Richoz O, Hafezi F. **Repeated Cross-linking After a Short Time Does Not Provide Any Additional Biomechanical Stiffness in the Mouse Cornea In Vivo.** J Refract Surg. 2017 Jan 1;33(1):56-60.
- **Hammer A**, Rudaz S, Guinchard S, Kling S, Richoz O, Hafezi F. **Analysis of riboflavin compounds in the rabbit cornea in vivo.** Curr Eye Res. 2016 Sep;41(9):1166-72.
- Kling S, Richoz O, **Hammer A**, Tabibian D, Jacob S, Agarwal A, Hafezi F. **Increased Biomechanical Efficacy of Corneal Cross-linking in Thin Corneas Due to Higher Oxygen Availability.** J Refract Surg. 2015 Dec;31(12):840-6.
- **Hammer A**, Kling S, Marc-Olivier Boldi, Olivier Richoz, David Tabibian, J. Bradley Randleman, Farhad Hafezi. **Establishing Corneal Cross-Linking with riboflavin and UV-A in the mouse cornea in vivo: biomechanical analysis.** Invest Ophthalmol Vis Sci. 2015 Oct;56(11):6581-90.
- Richoz O, Kling S, Hoogewoud F, **Hammer A**, Tabibian D, François P, Schrenzel J, Hafezi F. **Antibacterial efficacy of accelerated photoactivated chromophore for keratitis-corneal collagen cross-linking (PACK-CXL).** J Refract Surg. 2014 Dec;30(12):850-4
- Richoz O, Mosquera S, Kling S, **Hammer A**, Magnago T, Bosch M, Hafezi F. **Determination of the excimer laser ablation rate in previously cross-linked corneas.** J Refract Surg. 2014 Sep;30(9):628-32.
- Richoz O, Kling S, Zandi S, **Hammer A**, Spoerl E, Hafezi F. **A constant force technique to measure corneal biomechanical changes after collagen cross-linking.** PLoS One. 2014 Aug 27;9(8)
- Richoz O, Tabibian D, **Hammer A**, Majo F, Nicolas M, Hafezi F. **The effect of standard and high-fluence corneal cross-linking (CXL) on cornea and limbus.** Invest Ophthalmol Vis Sci. 2014 Jul 22;55(9):5783-7.
- **Hammer A**, Tabibian D, Richoz O, Hafezi F. **Keratoconus treatment by corneal cross-linking (CXL).** Rev Med Suisse 2014 Juin; 10: 1263-1265
- **Hammer A**, Mosquera S, Magnano T, Richoz O, Tabibian D, Hoogewoud F, Hafezi F. **Corneal Biomechanical Properties at Different Corneal Cross-Linking (CXL) Irradiances.** Invest Ophthalmol Vis Sci. 2014 May 2; 55(5): 2881-4
- Richoz O, **Hammer A**, Hafezi F. **The Biomechanical Effect of Corneal Collagen Cross-Linking (CXL) With Riboflavin and UV-A is Oxygen Dependent.** Transl Vis Sci Technol. 2013 Nov; 2(7): 6

## Media

### Presse :

- February 2024 - Blick.ch : ["Un médecin nous explique tout sur la sécheresse oculaire"](#)

## Accreditation

[Swiss Visio](#)

[Swiss Visio Beau-Rivage](#)

[Swiss Visio Lausanne-Gare](#)

[Swiss Visio Montchoisi](#)

[Clinique de Montchoisi](#)

[Swiss Visio Valère](#)

## Specialties

[Ophthalmology](#)

[Eye surgery](#)

[Corneal transplantation](#)

[Cataracts](#)

[FEMTO-LASIK procedure](#)

[PRK technique](#)

[Near-sightedness \(myopia\)](#)

[Age-related far-sightedness \(presbyopia\)](#)

[Far-sightedness \(hyperopia\)](#)

[Corneal irregularity \(astigmatism\)](#)

[Dry eye](#)

[Eye inflammation](#)

[Corneal diseases](#)

[ICL technique](#)

## Contact

**Swiss Visio Montchoisi**

Avenue de Servan 38

1006 Lausanne

T +41 58 274 22 00

[reception@swissvisio.net](mailto:reception@swissvisio.net)

[Download vCard](#)

**Clinique de Montchoisi**

Chemin des Allinges 10

1006 Lausanne

T +41 21 619 39 39

[info@montchoisi.ch](mailto:info@montchoisi.ch)

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