

NAME	POSITION TITLE		
Prevedel, Robert	Group Leader		
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Diploma Thesis, University of Vienna, Austria	Magister	1	Quantum Physics
PhD Thesis, University of Vienna, Austria	PhD	3	Quantum Optics
Institute for Quantum Computing, University of Waterloo, Canada	Post doc	2	Quantum Imaging
Institute of Molecular Pathology & Max F. Perutz Laboratories, Vienna, Austria	Post doc	5	Biological Imaging

POSITIONS

2016 – present	Group Leader, EMBL Heidelberg, Germany (open-ended contract since 2022)
2025 – present	Senior Scientist, EMBL Heidelberg, Germany
2019 – present	Group Leader, Molecular Medicine Partnership Unit, Heidelberg, Germany
2021 – present	Investigator, Interdisciplinary Center for Neurosciences, Heidelberg, Germany
2021 – present	Investigator, German Center for Lung Research (DZL), Germany
2011 – 2016	Senior Post-Doctoral Fellow (Marie Curie), Research Institute of Molecular Pathology (IMP) and Max F. Perutz Laboratories GmbH (MFPL), Vienna, Austria. Mentor: Dr. Alipasha Vaziri
2013 – 2016	External Lecturer, FH IMC Krems, Krems, Austria.
2009 – 2011	Post-Doctoral Fellow (Schrödinger), Institute for Quantum Computing, University of Waterloo, Canada. Mentor: Prof. Kevin Resch
2006 – 2009	Research and Teaching Assistant, Faculty of Physics, University of Vienna, Austria. Mentor: Prof. Dr. Anton Zeilinger (Nobel Laureate Physics 2022)
2005	Joint Study Fellow, Department of Physics, University of Queensland, Brisbane, Australia. Mentor: Prof. Andrew White
2004 – 2005	Scientific Assistant, Institute for Experimental Physics, University of Vienna, Austria. Mentor: Prof. Dr. Anton Zeilinger (Nobel Laureate Physics 2022)

GRANTS (Total ~5.8MEUR)

2025	EZN Cancer Neuroscience Seed Funding - Advanced intravital deep imaging, 60k€.
2024	CZI Deep Tissue Imaging grant (Phase 2) - Smart combination of light & sound, 700k\$.
2024	GSK-Collaboration grant – Biomechanics of ECM in respiratory diseases, ~350k€.
2024	DZL4.0 – German Center for Lung Research, Brillouin microscopy, BMBF, ~350k€.
2023	Stimulator grant – Correlative brain imaging across scales, LifeScience Alliance, 100k€.
2022	Horizon Infra-Tech grant – IMAGINE (Co-PI, WP-lead), EU Commission, 750k€.
2021	DFG grant – Revealing the neural population code of auditory space, 200k€.
2021	CZI Deep Tissue Imaging grant (Phase 1) - Smart combination of light & sound, 330k\$.
2021, 2024	MOLIT Collaboration grant - 4D imaging methods for tumor organoids, ~250k€.
2020	DZL3.0 – German Center for Lung Research, Brillouin microscopy, BMBF, ~350k€.
2020	FET Proactive - Multi-photon infrared brain imaging, EU Commission, 470k€.
2019	ERC Consolidator grant - Brillouin microscopy, EU Commission, 2.000k€.
2019	DFG SPP grant - Development of new voltage imaging tools, 250k€.
2019	Attract Seed Grant - Ultra-fast volumetric microscopy (Co-PI), EU Commission, 100k€.

FELLOWSHIPS (Total ~570kEUR)

2012	Marie Curie IIF Post-Doctoral Fellowship, European Union, 180kEUR.
2011	VIPS Post-Doctoral Fellowship, Max F. Perutz Laboratories, 280kEUR.
2009	Erwin-Schrödinger Post-Doctoral Fellowship, Austrian Science Fund, 60kEUR.

2009 MRI Post-Doctoral Fellowship, Ontario Ministry for Research & Innovation, 50kCAD.
2005 Joint Study Fellowship, University of Vienna.

TEACHING EXPERIENCE

From 2016 Light microscopy lectures & course practicals at EMBL, Heidelberg.
From 2019 Neurobiology lectures & course practicals at EMBL, Heidelberg.
2013 – 2016 Lecturer for laboratory course Analytical Chemistry, FH IMC Krems.
2013 Co-Lecturer Physical Chemistry 2, University of Vienna.
2013 Tutor for laboratory course Biophysik Praktikum, University of Vienna
2009 – 2011 Tutor for laboratory course Experimental Quantum Information, University of Waterloo.
2006 – 2009 Substitute Lecturer & Tutor for undergraduate physics courses, University of Vienna.

AWARDS

2019 ERC Consolidator grant
2014 FENS-IBRO Travel Award, from the FENS.
2010 PhD thesis selected as one of 4 best in 2008/09 by AMO section of DPG.
2006, 2007 Merit Scholarship, from the University of Vienna.
2006 KWA Scholarship, from the University of Vienna (Conference Grant).
2006 International Communication Scholarship, from the ÖFG (Travel Grant).
2004 Top-Stipendium Exchange Scholarship, from the State of Lower Austria.
2003 Top-Stipendium Scholarship, from the State of Lower Austria.

CONFERENCE AND SEMINAR ORGANIZATION

2025 Co-organizer annual BioBrillouin Meeting, Berlin, Germany; 60 participants
2026 Program Committee Member, Optica Biophotonics Congress, Fort Lauderdale, USA
2018/2026 Organizer EMBL Practical Course: Brillouin Microscopy; EMBL, Heidelberg, Germany; 30 participants;
2024 Nomination Committee Biophotonics – 2024 International Congress of Basic Science
Since 2024 Program Committee Member SPIE Photonics Europe – Neurophotonics track
2024 Organizer EMBO Workshop: Imaging Mouse Development, EMBL, Heidelberg;
2022 Organizer FENS 2022 workshop on “Multiscale deep and large-volume brain imaging”
Since 2020 Co-Lead Organizer of the monthly EMBL-Janelia Bioimaging seminars (virtual)
2020 Organizer COST Action BioBrillouin workshop on Instrumentation, Vienna, Austria
2019/22-24 Organizer EMBL Undergraduate School: Visualizing Life, EMBL, Heidelberg, Germany
2013 Co-organizer of the Quantum Effects in Biological Systems Conference 2013 Institute of Molecular Pathology, Vienna, Austria; 54 participants;

PUBLICATIONS

Number of publications: **74**. Number of citations: **~7470**. H-index: **34**; ORCID ID: 0000-0003-3366-4703.

- **31 senior-author** (6 Nat. Methods, 1 Nat. Photonics, 1 Nat. Rev., 2 Nat. Comm., 6 Optica group)
- **12 first-author** (1 Nature, 4 Nat. Methods, 1 Nat. Physics, 1 Nat. Rev. Neuro, 3 Phys. Rev. Lett.)

Original research publications († denotes corresponding author; *equal contribution)

1. R. Prevedel[†], J. Ferrer Ortas, J. Kerr, J. Waters, M. Breckwoldt, B. Deneen, M. Monje, S. Soyska and V. Venkataramani[†]
Three-photon microscopy: an emerging optical technique for deep intravital brain imaging
Nature Reviews Neuroscience **26**, 521–537 (2025), <https://doi.org/10.1038/s41583-025-00937-y>;
Selected for Cover Image
2. J.M. Gomez[†], C. Bevilacqua, A. Thayambath, M. Leptin, J. Belmonte and R. Prevedel[†].
Highly dynamic mechanical transitions in embryonic cell populations during Drosophila gastrulation.
Nature Communications **16**, 6473 (2025); **bioRxiv**: 2024.08.29.610383 (2024).

3. K.A. Ibrahim[†], C. Cathala, C. Bevilacqua, L. Feletti, R. Prevedel, H.A. Lashuel[†] and A. Radenovic[†]. *Self-Driving Microscopy Detects the Onset of Protein Aggregation and Enables Intelligent Brillouin Imaging* **Nature Communications** **16**, 6699 (2025). <https://www.nature.com/articles/s41467-025-60912-0>
4. G. Lemahieu, P. Moreno-Layseca, T. Hub, C. Bevilacqua, M.G. González, F. Pennarola, F. Colombo, L. Barzaghi, A. Palamidessi, L.-L. Homagk, S.F.H. Barnett, C. Selhuber-Unkel, R. Prevedel, X. Trepát, J.P. Spatz, J. Ivaska, G. Scita and E.A. Cavalcanti-Adam[†]. *RAB5A Promotes Active Fluid Wetting by Reprogramming Breast Cancer Spheroid Mechanics* **Advanced Science**, e03569 (2025). <https://doi.org/10.1002/adv.202503569>
5. C. Bevilacqua and R. Prevedel[†]. *Full-field Brillouin microscopy based on an imaging Fourier transform spectrometer.* **Nature Photonics** **19**, 494–501 (2025); **arXiv**: 2409.02092 (2024). <https://doi.org/10.1038/s41566-025-01619-y>
6. P. Bouvet, C. Bevilacqua, Y. Ambekar, G. Antonacci, J. Au, S. Caponi, S. Chagnon-Lessard, J. Czarske, T. Dehoux, D. Fioretto, Y. Fu, J. Guck, T. Hamann, D. Heinemann, T. Jähnke, H. Jean-Ruel, I. Kabakova, K. Koski, N. Koukourakis, D. Krause, S. La Cavera III, T. Landes, J. Li, J. Margueritat, M. Mattarelli, M. Monaghan, D.R. Overby, F. Perez-Cota, E. Pontecorvo, R. Prevedel, G. Ruocco, J. Sandercock, G. Scarcelli, F. Scarponi, C. Testi, P. Török, L. Vovard, W. Weninger, V. Yakovlev, S.-H. Yun, J. Zhang, F. Palombo, A. Bilenca, K. Elsayad[†]. *Consensus Statement on Brillouin Light Scattering Microscopy of Biological Materials.* **Nature Photonics** **19**, 681–691 (2025), **arXiv**:2411.11712 (2024);
7. S. Davis, J.-R. Sommernes, S. Hambura, L. Riedel, A. Gil, A. Ikmi, F. Ströhl and R. Prevedel[†]. *A mesoscopic axially swept oblique plane microscope for imaging of freely moving organisms with near-isotropic resolution.* **Biomedical Optics Express** **15**, 6715–6724 (2024); **Optica Open**:116719 (2024).
8. M. Schubert*, S. Soyka*, A. Tamimi*, E. Maus, R. Denninger, N. Wissmann, E. Reyhan, S. Tetzlaff, C. Beretta, M. Drumm, J. Schroers, A. Steffens, J. Walshon, K. McCortney, S. Heiland, A. Golebiewska, F. Kurz, W. Wick, F. Winkler, A. Kreshuk, T. Kuner, C. Horbinski, R. Prevedel^{†,*} and V. Venkataramani^{†,*}. *Deep intravital brain tumor imaging enabled by tailored three-photon microscopy and analysis.* **Nature Communications** **15**, 7383 (2024); **bioRxiv**:2023.06.17.545350 (2023)
9. A. Tamimi, M. Caltarola[†], S. Hambura, J.C. Boffi, N. Noordzij, J.W.N. Los, A. Guardiani, H. Kooiman, L. Wang, C. Kieser, F. Braun, A. Fognini and R. Prevedel[†]. *Deep mouse brain two-photon near-infrared fluorescence imaging using a superconducting nanowire single-photon detector array.* **ACS Photonics** **11**, 3960–3971 (2024); **ArXiv**: 2312.14042.
10. A. Cook, N. Kaydanov, B. Ugarte-Urbe, J.C. Boffi, G.B. Kamm, R. Prevedel[†], C. Deo[†]. *Chemigenetic far-red labels and Ca²⁺ indicators optimized for photoacoustic imaging.* **J. Am. Chem. Soc.** **146**, 23963–23971(2024); DOI: 10.1021/jacs.4c07080 **bioRxiv**: 2024.05.23.595278.
11. F. Xia*, I. Leite*, R. Prevedel and T. Chaigne. *Optical wavefront shaping in deep tissue using photoacoustic feedback.* **Journal of Physics: Photonics** **6**, 043005 (2024); **arXiv**:2407.04628;
12. J.C. Boffi[†], B. Bathellier, H. Asari, and R. Prevedel[†]. *Effective sound localization coding by noisy populations of mouse inferior colliculus neurons revealed by fast volumetric imaging.* **eLife** **13**:RP97598 (2024); doi: 10.7554/eLife.97598.1; **bioRxiv**: 2022.08.19.504510.
13. A. Bilenca[†], R. Prevedel[†] and G. Scarcelli[†]. *Current state of stimulated Brillouin scattering microscopy for the life sciences.* **Journal of Physics: Photonics** **6**, 032001 (2024); doi: 10.1088/2515-7647/ad5506
14. F. Ruperti, I. Becher*, A. Stokkermans*, L. Wang*[†], N. Marschlich*, C. Potel, E. Maus, F. Stein, B. Drotleff, K. Schippers, M. Nickel, R. Prevedel, J.M. Musser[†], M. M. Savitski[†], and D. Arendt[†]

Molecular profiling of sponge deflation reveals an ancient relaxant-inflammatory response.
Current Biology **34**, 1–15 (2024); **bioRxiv**: 2023.08.02.551666

15. F. Coraggio; M. Bhushan; S. Roumeliotis; C. Bevilacqua, R. Prevedel and G. Rapti[†].
Lifelong interplay of HSP-proteostasis, ECM-cell junctions, and biomechanics ensures C. elegans astroglial architecture.
Nature Communications **15**, 2861 (2024); **bioRxiv**: 2023.10.28.564505 (2023).
16. F. Yang[†], C. Bevilacqua, S. Hambura, A. Neves, A. Gopalan, K. Watanabe, M. Govendir, M. Bernabeu, J. Ellenberg, A. Diz-Muñoz, S. Köhler, G. Rapti, M. Jechlinger, and R. Prevedel[†].
Pulsed stimulated Brillouin microscopy enables high-sensitivity mechanical imaging of live and fragile biological specimens.
Nature Methods **20**, 1971-1979 (2023); **bioRxiv**: 2022.11.10.515835 (2022).
17. C. Bevilacqua, J.M. Gomez, U.-M. Fiuza, C.J. Chan, L. Wang, S. Hambura, M. Eguren, J. Ellenberg, A. Diz-Muñoz, M. Leptin and R. Prevedel[†].
High-resolution line-scan Brillouin microscopy for live-imaging of mechanical properties during embryo development.
Nature Methods **20**, 755–760 (2023). **bioRxiv**: 2022.04.25.489364 (2022). [doi:10.1038/s41592-023-01822-1](https://doi.org/10.1038/s41592-023-01822-1); News & Views: <https://doi.org/10.1038/s41592-023-01843-w>
 Selected as one of the 10 biggest science stories of 2022 by The Guardian.
<https://tinyurl.com/375dspvwa>
18. R. Singh, K. Subramanian, R.M. Power, A. Paix, A. Gil, A. Ikmi, and R. Prevedel[†].
Oblique plane microscope for mesoscopic imaging of freely moving organisms with cellular resolution.
Optics Express **31**, 2292-2301 (2023). **bioRxiv**: 2022.07.15.500249 (2022).
19. C. Couteau[†], S. Barz, T. Durt, T. Gerrits, J. Huwer, R. Prevedel, J. Rarity, A. Shields, and G. Weihs. *Applications of single photons in quantum metrology, biology and the foundations of quantum physics.*
Nature Reviews Physics **5**, 354–363 (2023); doi.org/10.1038/s42254-023-00589-w.
20. C. Couteau[†], S. Barz, T. Durt, T. Gerrits, J. Huwer, R. Prevedel, J. Rarity, A. Shields, and G. Weihs. *Applications of single photons to quantum communication and computing.*
Nature Reviews Physics **5**, 326–338 (2023); doi.org/10.1038/s42254-023-00583-2.
21. J. Czuchnowski[†] and R. Prevedel[†].
Transfer function asymmetry in Fabry-Pérot pressure sensors.
Optics Letters **47**, 6089-6092 (2022). **ArXiv**: 2109.02443 (2021).
22. A. Paix, S. Basu, P. Steenbergen, R. Singh, R. Prevedel and A. Ikmi[†].
Endogenous tagging of multiple cellular components in the sea anemone Nematostella vectensis.
PNAS **120**, e2215958120 (2022).
23. J. Czuchnowski[†] and R. Prevedel[†].
Zernike mode rescaling extends capabilities of adaptive optics for microscopy.
Optics Continuum **12**, 2600-2606 (2022). **ArXiv**: 2110.14233 (2021).
24. Stokkermans, A. Chakrabarti, K. Subramanian, L. Wang, S. Yin, P. Moghe, P. Steenbergen, G. Mönke, T. Hiiragi, R. Prevedel, L. Mahadevan[†] and A. Ikmi[†].
Muscular hydraulics drive larva-polyp morphogenesis
Current Biology **32**, 1-12 (2022). **bioRxiv**: 2021.08.19.456976 (2021).
25. J. Czuchnowski and R. Prevedel[†].
Comparing free-space and fibre-coupled detectors for Fabry-Pérot based all-optical photoacoustic tomography.
Journal of Biomedical Optics **27**, 046001 (2022). **ArXiv**: 2112.03081 (2021).
26. L. Streich, J. Boffi, L. Wang, K. Alhalaseh, M. Barbieri, R. Rehm, S. Deivasigamani, C. Gross, A. Agarwal, and R. Prevedel[†].
High-resolution structural and functional deep brain imaging using adaptive optics three-photon microscopy
Nature Methods **18**, 1253-1258 (2021). **bioRxiv**: 2021.01.12.426323 Selected for Technology Feature by Nature: <https://www.nature.com/articles/d41586-023-00336-2>

27. C.C. Chan[†], C. Bevilacqua, and R. Prevedel[†].
Mechanical mapping of mammalian follicle development using Brillouin microscopy.
Communications Biology **4**, 1133 (2021). bioRxiv:2021.02.21.432113
28. J. Czuchnowski[†] and R. Prevedel[†].
Cross-compensation of Zernike aberrations in Gaussian beam optics.
Optics Letters **46**, 3480-3483 (2021). ArXiv:2102.05383
29. N. Wagner*, F. Beuttenmueller*, N. Norlin, J. Gierten, J. Wittbrodt, M. Weigert, L. Hufnagel, R. Prevedel^{*,†} and A. Kreshuk^{*,†}.
Deep learning-enhanced light-field imaging with continuous validation.
Nature Methods **18**, 557–563 (2021). bioRxiv:228924; *Equal contribution
News & Views: <https://www.nature.com/articles/s41592-021-01151-1>
30. J. Czuchnowski and R. Prevedel[†].
Adaptive optics enhanced sensitivity in Fabry-Pérot based photoacoustic tomography
Photoacoustics **23**, 100276 (2021); bioRxiv:2021.01.13.426260v1.
31. M.S. Ozturk, M.G. Montero, L. Wang, L. Chaible, M. Jechlinger[†] and R. Prevedel[†].
In-vivo monitoring and quantification of breast cancer growth dynamics with non-invasive intravital mesoscopic fluorescence molecular tomography
Communications Biology **4**, 556 (2021). bioRxiv:234898;
32. C. Morelli*, L. Castaldi*, S.J. Brown, L.L. Streich, A. Websdale, F.J. Taberner, B. Cerreti, A. Barengi, K.M. Blum, J. Sawitzke, T. Frank, L. Steffens, B. Doleschall, J. Serrao, S.G. Lechner, R. Prevedel, and P.A. Heppenstall[†].
Identification of a population of peripheral sensory neuron that regulates blood pressure
Cell Reports **35**, 109191 (2021); bioRxiv:909960;
33. D. Li, H. Zhang, L. L. Streich, P. Lu, L. Wang, D. Zhu, R. Prevedel[†] and J. Qian[†], *AIE-nanoparticle assisted ultra-deep microscopy in the in vivo mouse brain under 1300-nm excitation,*
Materials Chemistry Frontiers **5**, 3201-3208 (2021). bioRxiv:2020.12.25.424420
34. J. Czuchnowski and R. Prevedel[†].
Improving the sensitivity of planar Fabry-Pérot cavities via adaptive optics and mode filtering
Advanced Optical Materials 2001337 (2020); ArXiv:2007.09769
35. S. Gross-Thebing*, L. Truszkowski*, D. Tenbrinck, H. Sánchez-Iranzo, C., Camelo, K.J. Westerich, A. Singh, P. Maier, J. Prengel, P. Lange, J. Hüwel, F. Gaede, R. Sasse, B. Vos, T. Betz, M. Matis, R. Prevedel, S. Luschnig, A. Diz-Muñoz, M. Burger[†], E. Raz[†]
Using migrating cells as probes to illuminate features in live embryonic tissues.
Science Advances **6**, eabc5546 (2020);
36. G. Antonacci, T. Beck, A. Bilenca, J. Czarske, K. Elsayad[†], J. Guck, K. Kim, B. Krug, F. Palombo, R. Prevedel[†], and G. Scarcelli.
Recent progress and current opinions in Brillouin Microscopy for life science application
Biophys. Rev. **12**, 615–624 (2020). Note: Authors were arranged alphabetically.
37. H. Sánchez-Iranzo*, C. Bevilacqua*, A. Diz-Muñoz[†] and R. Prevedel[†].
A 3D Brillouin microscopy dataset of the in-vivo zebrafish eye
Data in Brief **30**, 105427 (2020). *Joint first authors
38. F. Geisler, R. Coch, C. Richardson, M. Goldberg, C. Bevilacqua, R. Prevedel and R. Leube[†].
Intestinal intermediate filament polypeptides in C. elegans: Common and isotype-specific contributions to intestinal ultrastructure and function
Scientific Reports **10**, 3142 (2020).
39. R. Prevedel[†], A. Diz-Muñoz[†], G. Ruocco and G. Antonacci.
Brillouin microscopy - an emerging tool for mechanobiology
Nature Methods **16**, 969–977 (2019). ArXiv:1901.02006
40. N. Wagner*, N. Norlin*, J. Gierten, G. de Medeiros, B. Balázs, J. Wittbrodt, L. Hufnagel[†] and R. Prevedel[†].
Instantaneous isotropic volumetric imaging of fast biological processes
Nature Methods **16**, 497–500 (2019). bioRxiv:459370.

41. C. Bevilacqua*, H. Sánchez-Iranzo*, D. Richter, A. Diz-Muñoz[†] and R. Prevedel[†].
Imaging mechanical properties of sub-micron ECM in live zebrafish using Brillouin microscopy
Biomed. Opt. Exp. **10**, 1420-1431 (2019). bioRxiv:491803. *Joint first authors
42. J. Qi, C. Sun, D. Li, H. Zhang, W. Yu, A. Zebibula, J. W. Y. Lam, W. Xi, L. Zhu, F. Cai, P. Wei, C. Zhu, R. T. K. Kwok, L. L. Streich, R. Prevedel, J. Qian, and B. Z. Tang.
Aggregation-Induced Emission Luminogen with Near-Infrared-II Excitation and Near-Infrared-I Emission for Ultradeep Intravital Two-Photon Microscopy.
ACS Nano **8**, 7936–7945 (2018).
43. R. Prevedel, A.J. Verhoef, A.J. Pernia-Andrade, S. Weisenburger, B.S. Huang, T. Nöbauer, A. Fernandez, J.E. Delcour, P. Golshani, A. Baltuska and A. Vaziri.
Fast volumetric calcium imaging across multiple cortical layers using sculpted light.
Nature Methods **13**, 1021–1028 (2016).
44. J. N. Tinsley*, M. I. Molodtsov*, R. Prevedel, D. Wartmann, J. Espigulé- Pons, M. Lauwers, and A. Vaziri.
Direct Detection of a Single Photon by Humans.
Nature Communications **7**, 12172 (2016).
45. P. Rupprecht, R. Prevedel, F. Grössl, W.E. Haubensak, and A. Vaziri.
Optimizing and extending light-sculpting microscopy for fast functional imaging in neuroscience.
Biomedical Optics Express **6**, 353-368 (2015); ArXiv:1501.03082
46. R. Prevedel*, Y.-G. Yoon*, M. Hoffmann, N. Pak, G. Wetzstein, S. Kato, T. Schrödel, R. Raskar, M. Zimmer, E.S. Boyden, and A. Vaziri.
Simultaneous whole-animal 3D-imaging of neuronal activity using light field microscopy.
Nature Methods **11**, 727–730 (2014); ArXiv:1401.5333; selected for Cover
47. T. Scheidl, F. Tiefenbacher, R. Prevedel, F. Steinlechner, R. Ursin and A. Zeilinger.
Crossed crystal scheme for femto-second pulsed entangled photon generation in periodically poled potassium titanyl phosphate.
Phys. Rev. A **89** 042324 (2014) ArXiv:1404.6914
48. C. Erven, E. Meyer-Scott, K. Fisher, J. Lavoie, B. L. Higgins, Z. Yan, C. J. Pugh, J.-P. Bourgoin, R. Prevedel, L. K. Shalm, L. Richards, N. Gigov, R. Laflamme, G. Weihs, T. Jennewein, and K.J. Resch.
Experimental Three-Particle Quantum Nonlocality under Strict Locality Conditions.
Nature Photonics **8**, 292 (2014) ArXiv:1309.1379
49. K. Fisher, A. Broadband, L. K. Shalm, Z. Yan, J. Lavoie, R. Prevedel, T. Jennewein, and K.J. Resch.
Quantum computing on encrypted data.
Nature Communications **5**, 3074 (2014) ArXiv:1309.2586
50. T. Schrödel*, R. Prevedel*, K. Aumayr, M. Zimmer and A. Vaziri.
Brain- wide 3D imaging of neuronal activity in Caenorhabditis elegans with sculpted light.
Nature Methods **10**, 1013 (2013) ArXiv:1406.1603 *Equal contribution
51. M. Mazurek*, K. Schreiter*, R. Prevedel, R. Kaltenbaek and K.J. Resch.
Dispersion-cancelled biological imaging with quantum-inspired interferometry.
Scientific Rep. **3**, 1582 (2013)
52. K. Fisher, R. Prevedel, R. Kaltenbaek and K.J. Resch.
Optimal linear optical implementation of a single-qubit damping channel.
New J. of Physics **14**, 033016 (2012) ArXiv:1109.2070
53. R. Prevedel, K.M. Schreiter, J. Lavoie and K. J. Resch.
A classical analogue for dispersion cancellation of entangled photons with local detection.
Phys. Rev. A **84**, 051803(R) (2011) ArXiv:1105.3956
54. N.K. Langford, S. Ramelow, R. Prevedel, W.J. Munro, G.J. Milburn and A. Zeilinger.
Efficient quantum computing using coherent photon conversion.
Nature **478**, 360-363 (2011) ArXiv:1106.1992

55. R. Prevedel, D. R. Hamel, R. Colbeck, K. Fisher and K. J. Resch.
Experimental investigation of the uncertainty principle in the presence of quantum memory.
Nature Physics **7**, 757-761 (2011) ArXiv:1012.0332
56. R. Prevedel, Y. Lu, W. Matthews, R. Kaltenbaek and K. J. Resch.
Entanglement-Enhanced Classical Communication over a Noisy Classical Channel.
Phys. Rev. Lett. **106**, 110505 (2011) ArXiv:1010.2566
57. T. Paterek, J. Kofler, R. Prevedel, P. Klimek, M. Aspelmeyer, A. Zeilinger and C. Brukner.
Mathematical undecidability and quantum randomness.
New J. Phys. **12**, 013019 (2010) ArXiv:0811.4542
58. T. Scheidl, R. Ursin, A. Fedrizzi, S. Ramelow, X.-S. Ma, T. Herbst, R. Prevedel, L. Ratschbacher, J. Kofler, T. Jennewein and A. Zeilinger.
Feasibility of 300 km quantum key distribution with entangled states.
New J. Phys. **11**, 085002 (2009) ArXiv:1007.4645
59. R. Prevedel, G. Cronenberg, M.S Tame, M. Paternostro, P. Walther, M.S. Kim and A. Zeilinger.
Experimental realization of Dicke states of up to six qubits for multiparty quantum networking.
Phys. Rev. Lett. **103**, 020503 (2009) ArXiv:0903.2212
60. R. Kaltenbaek, R. Prevedel, M. Aspelmeyer and A. Zeilinger.
High-fidelity entanglement swapping with independent sources.
Phys. Rev. A **79**, 040302(R) (2009) ArXiv:0809.3991
61. A. Fedrizzi, R. Ursin, T. Herbst, M. Nespoli, R. Prevedel, T. Scheidl, F. Tiefenbacher, T. Jennewein and A. Zeilinger.
High-fidelity transmission of entanglement over a high-loss free-space channel.
Nature Physics **5**, 389-392 (2009) ArXiv:0902.2015
62. R. Prevedel, M.S Tame, A. Stefanov, M. Paternostro, M.S. Kim and A. Zeilinger.
Experimental demonstration of decoherence-free one-way information transfer.
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63. P. Boehi, R. Prevedel, T. Jennewein, A. Stefanov, F. Tiefenbacher and A. Zeilinger.
Implementation and characterization of active feed-forward for deterministic linear optics quantum computing.
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64. R. Prevedel, A. Stefanov, P. Walther and A. Zeilinger.
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65. K.J. Resch, K.L. Pregnell, R. Prevedel, A. Gilchrist, G.J. Pryde, J.L. O'Brien and A.G. White.
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66. M.S. Tame, R. Prevedel, M. Paternostro, P. Boehi, M.S. Kim and A. Zeilinger.
Experimental Realization of Deutsch's Algorithm in a One-way Quantum Computer.
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67. R. Prevedel, C. Brukner, M. Aspelmeyer, T.D. Jennewein and A. Zeilinger.
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J. Opt. Soc. Am. B **24**, 241-248 (2007) ArXiv:0803.4402
68. R. Prevedel, P. Walther, F. Tiefenbacher, P. Boehi, R. Kaltenbaek, T. Jennewein and A. Zeilinger.
High-speed linear optics quantum computing using active feed-forward.
Nature **445**, 65-69 (2007) ArXiv:quant-ph/0701017
69. N.K. Langford, T.J. Weinhold, R. Prevedel, K.J. Resch, A. Gilchrist, J.L. O'Brien, G.J. Pryde and A.G. White.
Demonstration of a Simple Entangling Optical Gate and Its Use in Bell-State Analysis.
Phys. Rev. Lett. **95**, 210504 (2005). ArXiv:quant-ph/0506262

Book Chapters (peer-reviewed)

70. C. Bevilacqua, K. Elsayad[†] and R. Prevedel[†].
Brillouin microscopy: measuring cell and tissue biomechanics in 3D with high spatial resolution

Optical Elastography: optical techniques for assessing cell and tissue biomechanics; Larin, K. (Ed.) and Scarcelli, G. (Ed.), SPIE (2023), *in press*

71. R. Prevedel[†].
Large-scale fluorescence imaging in neuroscience
Imaging from cells to animals *in vivo* (Book chapter) New York: Barroso, M. (Ed.) and Intes, X. (Ed.), Chapman and Hall/CRC, (2020);
72. M. Ozturk and R. Prevedel[†].
Fluorescence microscopy techniques
Imaging from cells to animals *in vivo* (Book chapter) New York: Barroso, M. (Ed.) and Intes, X. (Ed.), Chapman and Hall/CRC, (2020);

Electronic Preprints

73. C. Bevilacqua*, S. Hambura*, P. Bouvet*, S. La Cavera III, K. Elsayad*[†] and R. Prevedel*[†]
A standardized file format and open-source analysis framework for Brillouin microscopy data.
ArXiv:2509.07566 (2025).
74. P. Aymard*, J.C. Boffi*, H. Asari, R. Prevedel[†] and D. Holcman[†].
Column-Like Subnetwork Reconstruction in Motor Cortex from Graph-Based 3D High-Density Two-Photon Calcium Imaging.
bioRxiv: 2025.06.17.660119 (2025).
75. G.B. Kamm*[†], J. C. Boffi*, M. Abd El Hay*, D. Rajot, A. Cukic, M. Havenith, M. Scholvinck, N. Renier, H. Asari and R. Prevedel[†].
Central infusion of prostaglandin E2 reveals a unified representation of sickness in the mouse insular cortex.
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76. J. Garcia-Baucells[†], C. Bevilacqua*, M. Rufin*, C. Rumpf-Kienzl*, A. Zampetaki*, O.G. Andriotis, P.J. Thurner, R. Prevedel, S. Fürthauer and A. Dammermann[†].
Centrosome Softening Ensures Mitotic Fidelity Under Microtubule Forces.
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77. K.W. Leong*, Y. Lou*, A. Biswas, J.Y. Kelly Tan, B. Heng Ng, X. Lu, X.P. Joan Teo, T.B. Lu, C. Bevilacqua, I. Bonne, R. Prevedel, T. Hiraiwa and C.J. Chan[†]
Critical phenomenon underlies de novo luminogenesis during mammalian follicle development.
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78. M. Nadour, R. I. Valette Reveno Leatis, M. Biard, N. Frébault, L. Rivollet, P. St-Louis, C. R. Blanchette, A. Thackeray, P. Perrat, C. Bevilacqua, R. Prevedel, L. Cappadocia, G. Rapti, M. Doitsidou and C. Y. Bénard[†]
MIG-6/papilin remodels extracellular matrix collagen IV to protect neuronal architecture.
bioRxiv: 2025.02.10.637428 (2025);
79. T. Zerín, P. Ruiz-Duarte, A.-K. Schürholz, T. Schlamp, Y. Ma, C. Bevilacqua, N. El Arbi, C. Wenzl, A. Miotk, R. Prevedel, T. Greb, J. Lohmann, S. Wolff[†].
The Cell Wall Controls Stem Cell Fate in the Arabidopsis Shoot Apical Meristem.
bioRxiv: 2025.05.19.654883 (2025).
80. Y. Ermakova, R. Waadt, M.S. Ozturk, M. Roshchin, A.A. Lanin, A. Chebotarev, M. Pochechuev, V. Pak, I. Kelmanson, D. Smolyarova, K. Keutler, A.M. Matyushenko, C. Tischer, P.M. Balaban, E.S. Nikitin, K. Schumacher, A.M. Zheltikov, R. Prevedel, C. Schultz[†] and V.V. Belousov[†].
Thermogenetic control of Ca²⁺ levels in cells and tissues.
bioRxiv: 2023.03.22.533774 (2023).
81. J.C. Boffi, T. Wiessalla, and R. Prevedel[†].
Primary motor cortex traces distinct trajectories of population dynamics during spontaneous facial motor sequences.
bioRxiv: 2021.02.15.431209 (2021).
82. S. Weisenburger*, R. Prevedel* and A. Vaziri.
Quantitative evaluation of two-photon calcium imaging modalities for high-speed volumetric calcium imaging in scattering brain tissue.
bioRxiv/2017/115659; **doi**: 10.1101/115659 *Equal contribution

Submitted manuscripts

83. N.Kaydanov*, M. Olesińska-Mönch*, M. Leite, R. Prevedel[†] and Claire Deo[†].
Bridging Light and Sound: a Spironaphthopyran-Rhodamine Dyad with High-Contrast Photoswitching Between Fluorescence and Photoacoustic Signal.
bioRxiv: 2025.XXX (2025). *Submitted to XXX.*

Miscellaneous publications (peer-reviewed)

84. G. Paci, E. Haas, L. Kornau, D. Marchetti, L. Wang, R. Prevedel, and A. Szmolenszky[†].
Microscope in Action: an interdisciplinary fluorescence microscopy hands-on resource for schools.
The Biophysicist **2** (3) (2021); DOI: 10.35459/tbp.2020.000171
85. C. Bevilacqua, A. Diz-Muñoz[†] and R. Prevedel[†].
Brillouin microscopy - measuring mechanics in biology using light.
Infocus Magazine - Royal Microscopical Society **53**, March issue (2019)
86. J. Czuchnowski and R. Prevedel[†].
Photoacoustics: seeing with sound.
Science in School Magazine **47**, 14 (2019)

PATENTS

- C. Bevilacqua, L. Wang and R. Prevedel,
Spectroscopic imaging method and device.
European Patent EP24163369 and PCT/EP2025/056953, filed March 13, 2024.
- A. Vaziri, P. Rupprecht and R. Prevedel,
Recording dynamics of cellular processes.
U.S. Patent 10,317,390, filed September 8, 2014. Granted 2019.
- A. Vaziri, E.S. Boyden, R. Prevedel, Y.-G. Yoon, N. Pak,
Three-dimensional video imaging using light field microscopy.
U.S. Patent Application 62/105,595, filed January 20, 2015. Patent Pending.

INVITED PRESENTATIONS (SINCE 2017)

EMBL summer school keynote lecture, Heidelberg, July 2025
EMBL summer council meeting, EMBL Heidelberg, June 2025
ELMI conference, EMBL Heidelberg, June 2025
JST-EMBO meeting, EMBL Heidelberg, February 2025
TLRC Retreat, Heidelberg, February 2025
IBBC - EMBL - NANOTEC workshop (virtual), February 2025
Wellcome Trust Visit, EMBL Heidelberg, December 2024
EMBL Insight Lecture, EMBL Heidelberg, December 2024
Procope: Genetics in marine organisms workshop, EMBL Heidelberg, November 2024
CZI Imaging Meeting Deep Dive Session, Austin, USA, November 2024
EPFL Latsis Symposium on smart microscopy, Lausanne, October 2024
Quantitative Microscopy Symposium, Institut Pasteur, Paris, France, October 2024
EMBO Imaging Mouse Development workshop, EMBL Heidelberg, September 2024
EMBO course Current Methods in Cell Biology, EMBL Heidelberg, September 2024
EMBL faculty seminar, Hamburg, July 2024
EMBL summer school keynote lecture, Heidelberg, July 2024
Monash Advanced Microscopy Seminar (virtual), Melbourne, Australia, June 2024
Cancer Neuroscience Course series (virtual), Harvard, USA, June 2024
Michael Sars Symposium, Sars Center Bergen, Norway, May 2024
Pharmacology Seminar, University of Zurich, Switzerland, May 2024
Force Talk Seminar Series (virtual), King's College, UK, May 2024
EMBO Course Imaging Marine Organisms, Naples, Italy, April 2024
4D Cellular Physiology Conference, Janelia, USA, March 2024
EMBL Rome SAC Review, Rome, February 2024
SPIE Photonics West, San Francisco, January 2024
Industriegespräche Gießen, Lecture, Gießen, Germany, January 2024
Biolmaging Seminar, EPFL, Lausanne, Switzerland, December 2023
CellSense Technology Opening Ceremony, Keynote, Berlin, November 2023
Karlsruhe Days of Optics & Photonics 2023, Karlsruhe, November 2023

MiFoBio lecture and workshop, Presqu'île de Giens, November 2023
 CZI Imaging Frontier Workshop, San Francisco, October 2023
 MPMU Research Day, EMBL Heidelberg, September 2023
 EMBO Practical Course: Plasticity in developing systems, EMBL Heidelberg, August 2023
 Heidelberg Cancer Neuroscience Conference, University of Heidelberg, Germany, July 2023
 Mechanobiology Institute Seminar (virtual), University of Singapore, Singapore, July 2023
 Physics in Biology seminar, University of Geneva, Switzerland, June 2023
 Computational Imaging Workshop, Wetzlar, Germany, May 2023
 Online Lecture Series on Optics, Aalen University (virtual), April 2023
 Neural Circuit Seminar, IIT Genoa, Italy, March 2023
 ENS-CdG-EMBL Neurobiology Workshop, Rome, Italy, Feb. 2023
 EMBL Corporate Partnership Program, Heidelberg, Feb. 2023
 External seminar, IST Austria, Vienna, Nov. 2022
 Modern Concepts in Structural Biology seminar, Vienna BioCenter, Nov. 2022
 EMBL-Leica Scientific advisory board meeting, Nov. 2022
 Biotechniques Spotlight Panel discussion (virtual), Oct. 2022
 EMBL-IIT Imaging Meeting, Rome, Italy, Oct. 2022
 SPP1926 Annual Meeting, Göttingen, Oct. 2022
 MPMU Advisory Meeting, Heidelberg, Oct. 2022
 EMBL Faculty Retreat, Paris, France, Sept. 2022
 International School of Sound and Light, Oleron, France, Sept. 2022
 Janelia Conference Imaging Mouse Development, Janelia, USA, Sept. 2022
 Inflammation & Imaging Symposium Münster, Germany, Sept. 2022
 MPI Science of Light seminar, Erlangen, Germany, Aug. 2022
 FENS workshop organizer and speaker, Paris, France, July 2022
 EMBL summer school keynote lecture, Heidelberg, July 2022
 EMBL faculty seminar, Grenoble, France, May 2022
 Translational Lung Research Center Retreat, Asselheim, Germany, May 2022
 IZN Concept talk, Heidelberg University, April 2022
 IIT-EMBL Rome workshop, Rome, Italy, April 2022
 Euro-BioImaging Seminar Series, Heidelberg (virtual), Mar. 2022
 Anatomy and Cell Biology seminar, Medical University Vienna (virtual), Mar. 2022
 Cancer Neuroscience Seminar Series, Heidelberg (virtual), Mar. 2022
 SPIE Photonics West – invited presentation, San Francisco, USA, Feb. 2022
 EMBL-Abbvie Science Day presentation, Heidelberg, Jan. 2022
 Erlangen W3 Medical Faculty interview, Erlangen, Nov. 2021
 UK-China International Workshop, Plenary talk (virtual), Glasgow, UK, Nov. 2021
 BioBrillouin training school (virtual), Vienna, Oct. 2021
 EMBL-EMBO Symposium Seeing is Believing (virtual), Germany, Oct. 2021
 Böhringer Annual Alumni meeting, Glashütten, Germany, Sept. 2021
 OSA Imaging and Applied Optics Congress (virtual), Vancouver, July 2021
 Chair EMBL-GSK Science Day (virtual), Heidelberg, July 2021
 Mini-symposium Neurodegeneration Excellence Cluster proposal (virtual), Heidelberg, June 2021
 University of Zurich Brain Research Institute Seminar (virtual), Switzerland, June 2021
 Janelia workshop Biological tools for 4D Cellular Physiology (virtual), May 2021
 CBB SAC Review (virtual), Heidelberg, May 2021
 MPMU Research Day (virtual), Heidelberg, Apr. 2021
 CZI Deep Tissue grant kickoff meeting (virtual), San Francisco, USA, Feb. 2021
 EMBL Corporate Partnership Program (virtual), Heidelberg, Feb. 2021
 Spanish & Portuguese Advanced Optical Microscopy Meeting (virtual), Valencia, Spain, Nov. 2020
 Texas A&M Biophotonics seminar (virtual), USA, Oct. 2020
 Imaging ONE WORLD lecture series (virtual), Cambridge, UK, Sept. 2020
 DB GL retreat, Heidelberg, July 2020
 MPMU Perspective Day, (virtual), Heidelberg, June 2020
 Janelia Optical Imaging seminar (virtual), USA, May 2020
 ELLS Teacher workshop, Heidelberg, March 2020
 Chan Zuckerberg Biohub, San Francisco, USA, Feb. 2020
 UC Davis, USA Feb. 2020
 SPIE Photonics West – Neurotechnologies Plenary talk, San Francisco, USA, Feb. 2020
 SPIE Photonics West – invited presentation, San Francisco, USA, Feb. 2020
 BioBrillouin Instrumentation workshop, Vienna, Austria, Dec. 2019
 Bern Microscopy Seminar, Switzerland, Nov. 2019
 MPMU application interview, Heidelberg, Nov. 2019
 EMBL PhD course: Neuroscience, Heidelberg, Nov. 2019
 BMSB Microscopy seminar, Berlin, Nov. 2019
 Swiss Microscopy Symposium, Engelberg, Switzerland, Oct. 2019
 BioBrillouin conference 2019, Porto, Portugal, Sept. 2019

ERC Interview 2019, Brussels, Belgium, Sept. 2019
 EMBO CBB course, Heidelberg, Sept. 2019
 Microscopy workshop, Tromsø, Norway, Sept. 2019
 Lindau Laureate students visit, Heidelberg, July 2019
 CBB GL retreat, Germany, July 2019
 ECBO 2019, Munich, June 2019
 BioBrillouin training school, Lyon, France, Jan. 2019
 Imaging Seminar, Institut Fresnel, Paris, France, Jan. 2019
 Optics within life sciences meeting, Perth, Australia, Nov. 2018
 Guest Lecture, FH Mannheim, Germany, Nov. 2018
 Rome GL retreat, Italy, Oct. 2018
 ERC interview 2018, Brussels, Belgium, Sept. 2018
 EMBL Australia symposium, Heidelberg, Sept. 2018
 BioBrillouin conference, Perugia, Italy, Sept. 2018
 EMBL Conference Imaging Mouse Development, Heidelberg, July 2018
 ESOF Toulouse, France, July 2018
 Poland joins EMBO symposium, Warsaw, Poland, June 2018
 DB GL retreat, June 2018
 Microscopy seminar, German Lung Cancer Center, Heidelberg, May 2018
 Lunch seminar, BioMedX, Heidelberg, April 2018
 Open Day lecture, IGH high school, Heidelberg, March 2018
 Bruker visit to EMBL, Heidelberg, Jan. 2018
 Medical Engineering Seminar, Morgridge Institute, Madison, USA, Nov. 2017
 EMBL conference Mammalian Genetics and Genomics, Heidelberg, Oct. 2017
 Open Day lecture, OICE Erlangen, Germany, Oct. 2017
 Olympus Microscopy Summit, Klostereberbach, Germany, Oct. 2017
 EMBL conference 'Seeing is Believing', Heidelberg, Oct. 2017
 CBB GL retreat, Heidelberg, July 2017
 ECBO, Munich, June 2017

REVIEWER FOR JOURNALS

Nature
 Cell
 Nature Methods
 Nature Biotechnology
 Nature Nanotechnology
 Nature Neuroscience
 Nature Communication
 Nature Reviews Methods Primer
 Science Advances
 Nature Light: Science and Applications
 Nature Protocols
 Reviews of Modern Physics
 Physical Review Letters
 Physical Review X
 Physical Review X Life
 Optica
 eLife
 Review Commons
 eLight
 Small
 Advanced Optical Materials
 Developmental Cell
 Development
 Biomaterial Advances
 Communications Biology
 Photoacoustics
 Photonics Research
 Applied Physics Letters Photonics
 ACS Photonics
 ACS Applied Nano Materials
 Laser & Photonics Reviews

Optics Express
 Optics Communication
 Biomedical Optics Express
 Transactions on Medical Imaging
 Current Opinion in Biomedical Engineering
 Journal of Neuroscience Methods
 Journal of the European Optical Society
 Physical Review A
 Physical Review Applied
 Scientific Reports
 New Journal of Physics
 Quantum
 European Journal of Physics
 IEEE Photonics
 IEEE Transactions Biomedical Engineering
 ISciNote

REVIEWER FOR GRANTS

ERC Advanced Grant (EU)
 ERC Consolidator Grant (EU)
 ERC Starting Grant (EU)
 NIH-RFA-NS (Brain Initiative)
 NSF Major Research Instrumentation
 DFG (Germany)
 Novo Nordisk Foundation (Denmark)
 FWF (Austria)
 OeAD (Austria)
 Cancer Research UK (UK)
 ANR (France)
 Inserm (France)
 SNSF (Switzerland)
 EPFL (Switzerland)
 Wellcome Trust (UK)
 Israel Science Foundation (ISF)
 URochester Pilot grants (USA)
 VIP-2 postdoctoral fellowships (Austria)
 Fondecyt (Chile)

SCIENTIFIC NETWORKS

2017 - 2022	Management Committee Member of the COST Action Network “BioBrillouin” (CA16124) and Work Group Leader (WG3: Instrumentation) - collaborative network in the field of Brillouin spectroscopy applied to life sciences and health related problems.
2018 - 2023	Management Committee Member of the COST Action Network “COMULIS” (CA17121) – Correlated Multimodal Imaging in Life Sciences
Since 2022	Treasurer, International BioBrillouin Society
2023	Guest Editor for Focus Issue in J. Phys. Photonics on Brillouin Scattering in Biology

INSTITUTIONAL RESPONSIBILITIES

Since 2016	Member of 8 internal committees at EMBL (incl. Animal Welfare IACUC).
Since 2021	Chair of 2 internal committees at EMBL (Microscopy facilities, Workshops)
Since 2016	Member of 15 Thesis Advisory Committees and 8 PhD defense committees.
Since 2018	Member of 4 Faculty and 9 Service position recruitment panels at EMBL.
Since 2018	Career mentor for 3 EMBL postdocs (within EIPOD 4 program)
Since 2024	Career mentor within the DZL Academy Mentoring Program
Since 2024	Member of the EMBL Joint Advisory Appeals Board
Since 2025	Representative EMBL Member of ESA's upcoming Saturn Flagship mission

PROFESSIONAL MEMBERSHIPS

Optical Society of America
SPIE (Society of Photo-Optical Instrumentation Engineers)
International BioBrillouin Society