

Julien Vezoli

Married, 4 children
(2005, 2008, 2011, 2013)



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POST-Ph.D. EXPERIENCE

- 2023-present** Research Scientist – CRCN Inserm at the **Stem Cell and Brain Research Institute (SBRI)**, INSERM U1208, Bron, France. *Team Cerebral Cortex and Connectome.*
- 2022-2023** Research Associate at the **Stem Cell and Brain Research Institute (SBRI)**, INSERM U1208, Bron, France. *Team Cerebral Cortex and Connectome.*
- 2018-2022** Research Associate at the **Ernst Strüngmann Institute (ESI)** in cooperation with the **Max Planck Society**, Frankfurt am Main, Germany. *Fries Lab: Large-scale connectomics.*
- 2011-2017** Post-Doctoral position at the **Ernst Strüngmann Institute (ESI)** in cooperation with the **Max Planck Society**, Frankfurt am Main, Germany. *Fries Lab: Brain structure-function relationships and neurophysiological correlates of hierarchical processing and cognition.*
- 2008-2010** Post-Doctoral position at the **Stem Cell and Brain Research Institute (SBRI)**, INSERM U846, Bron, France. *Integrative Neuroscience Department: PI of a transverse project focused on the MPTP-monkey model of Parkinson's disease (longitudinal follow-up of neurophysiological markers of cognitive troubles in the premotor period, multiparametric evaluation on the therapeutic potential of cellular graft using rhesus ES cells).*

EDUCATION

- 2003-2008** **Ph.D. in Neuroscience, UCBL, NSCo, Université de Lyon** *Anatomical networks, frontal functions and dysfunctions in the non-human primate: toward application for preclinical research.* dir. Emmanuel Procyk. Stem Cell and Brain Research Institute, Inserm U846, Bron, Fr.
- 2002-2003** **M2 Neuroscience, UCBL, Université de Lyon** *Evaluation of the hierarchical relationship of the Frontal Eye Field.* dir. Henry Kennedy. Brain and Vision Institute, Inserm U371, Bron, Fr.
- 2001-2002** **M1 Neuroscience, UCBL, Université de Lyon** *The role of the proprioceptive and visual feedbacks for cerebral development of hand representation.* dir. Angela Sirigu, Elena Daprati and Daniele Nico. Institute of Cognitive Sciences (ISC), Bron, Fr.
- Others** Habilitation HDR, University Toulouse III Paul Sabatier, May 26 2023; Senior lecturer qualification, MCF-2018-69-18269201593; University Diploma Neurodegenerative diseases, Université Victor Segalen Bordeaux2 (2011); Qualification in Experimental Surgery, ENV de Lyon (2006); Qualification in Animal Experimentation level 1, UCBL, ENS (2005).

Google Scholar

Citations 6570
h-index 21
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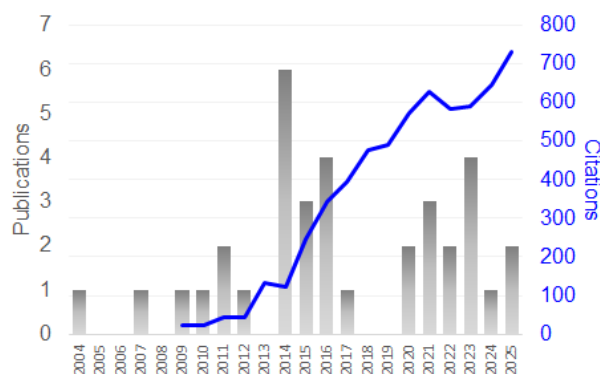
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<https://orcid.org/0000-0001-8319-5429>

<https://www.webofscience.com/wos/author/record/E-4267-2012>



PUBLICATIONS

Web of Science, citation report: 30 publications, 15 as 1st Author, 8 as corresponding author (CA), 2 last corresponding author: average citations per item: 136.18; h-index: 18; total citations: 3813; 4 highly cited papers (3 Top 1% and 1 Top 0.1%) and 6 Top 10% papers. <https://www.webofscience.com/wos/author/rid/E-4267-2012>

- Hou Y, Pizzuti A, Knoblauch K, **Vezoli J**, Goebel R, Vinck M, Kennedy H. *The primate claustrum as a hub for precision weighting of prediction errors across the cortical hierarchy*. **PLoS Biol.** 2026 Jul 16;24(7):e3003906. doi: 10.1371/journal.pbio.3003906. Online ahead of print. PMID: 42461967 **IF: 6.9**
- Garcia Reyes R, **Vezoli J**, Valdes-Sosa PA. *Spatial transcriptomic programs relate to spectrolaminar rhythms across macaque cortex* bioRxiv 2026 doi: <https://doi.org/10.64898/2026.07.08.737187>
- The BRAIN Initiative Cell Atlas Network (BICAN) *A Community Standard Multispecies Cell Atlas of the Basal Ganglia*. bioRxiv 2026 doi: <https://doi.org/10.64898/2026.04.14.717814>
- Lei Y, Liu Y, Wang M, Yuan N, Hou Y, Ding L, Zhu Z, Wu Z, Li C, Zheng M, Zhang R, Ribeiro Gomes AR, Xu Y, Luo Z, Liu Z, Chai Q, Misery P, Zhong Y, Song X, Lamy C, Cui W, Yu Q, Fang J, An Y, Tian Y, Liu Y, Sun X, Wang R, Li H, Song J, Tan X, Wang H, Wang S, Han L, Zhang Y, Li S, Wang K, Wang G, Zhou W, Liu J, Yu C, Zhang S, Chang L, Toplanaj D, Chen M, Liu J, Zhao Y, Ren B, Shi H, Zhang H, Yan H, Ma J, Wang L, Li Y, Zuo Y, Lu L, Gu L, Li S, Wang Y, He Y, Li S, Zhang Q, Lu Y, Dou Y, Liu Y, Zhao A, Zhang M, Zhang X, Xia Y, Zhang W, Cao H, Lu Z, Yu Z, Li X, Wang X, Liang Z, Xu S, Liu C, Zheng C, Xu C, Liu Z, Li C, Sun YG, Xu X, Dehay C, **Vezoli J**, Poo MM, Yao J, Liu L, Wei W, Kennedy H, Shen Z. *Single-cell spatial transcriptome atlas and whole-brain connectivity of the macaque claustrum*. **Cell.** 2025 Mar 30:S0092-8674(25)00273-9. doi: 10.1016/j.cell.2025.02.037. **IF: 45.1, Top 10% WoS cited 24**
- Aizenbud I, Audette N, Auksztulewicz R, Basiński K, Bastos AM, Berry M, Canales-Johnson A, Choi H, Clopath C, Cohen U, Ponte Costa R, De Filippo R, Doronin R, Errington SP, Gavornik JP, Gillon CJ, Granier A, Hamm JP, Hertäg L, Kennedy H, Kumar S, Ladd A, Ladret H, Lecoq JA, Maier A, McCarthy P, Mei J, Mejias J, Mikulasch F, Mudrik N, Najafi N, Nejad K, Nejat H, Oweiss K, Petrovici MA, Priesemann V, Rudelt L, Ruediger S, Russo S, Salatiello A, Senn W, Sennesh E, Sima S, Uran C, Vasilevskaya A, **Vezoli J**, Vinck M, Westerberg JA, Wilmes K, Xiong YS. *Neural mechanisms of predictive processing: a collaborative community experiment through the OpenScope program*. arXiv 2025 doi: <https://doi.org/10.48550/arXiv.2504.09614>
- Wang X-J, Jiang J, Zeraati R, Pereira-Oblinovic U, Battista A, **Vezoli J**, Kennedy H. *Bifurcation in space: Emergence of function modularity in the neocortex*. bioRxiv 2024 doi: <https://doi.org/10.1101/2023.06.04.543639> **WoS cited 2**
- Amunts K, Axer M, Banerjee S, Bitsch L, Bjaalie JG, Brauner P, Brovelli A, (...) Vanni S, van Albada SJ, Vanduffel W, **Vezoli J**, Vincenz-Donnelly L, Walter F, Zaborszky L. *The coming decade of digital brain research: A vision for neuroscience at the intersection of technology and computing*. **Imaging Neuroscience** (2024) 2: 1–35. https://doi.org/10.1162/imag_a_00137 **IF: 2.7, WoS cited 23**
- **Vezoli J**, Hou Y, Kennedy H. *The Evolving Concept of Cortical Hierarchy*. In The Cerebral Cortex and Thalamus, W. Martin Usrey, S. Murray Sherman, eds. (**Oxford University Press**), 2023, pp 393-404. ISBN: 9780197676158
- Parto-Dezfouli M, **Vezoli J**, Bosman CA, Fries P. *Enhanced Behavioral Performance through Interareal Gamma and Beta Synchronization*. **Cell Rep.** 2023 Oct 12;42(10):113249. **IF: 7.5, WoS cited 13**
- Lorents A, Colin M-E, Bjerke IE, Nougaret S, Montelisciani L, Diaz M, Verschure P, **Vezoli J** CA. *Human Brain Project Partnering projects Meeting: Status quo and outlook*. **eNeuro.** 2023 Sep 5;10(9):ENEURO.0091-23.2023. **IF: 2.7, WoS cited 3**
- Psarou E, **Vezoli J**, Schölvink M.L, Ferracci P-A, Zhang Y, Grothe I, Roese R, Fries P. *Modular, cement-free, customized headpost and connector-chamber implants for macaques*. **J Neurosci Methods.** 2023 Jun 1;393:109899. **IF: 2.7, WoS cited 8**
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- The PRIMatE Data and Resource Exchange (PRIME-DRE) Global Collaboration Workshop and Consortium. *Toward next-generation primate neuroscience: A collaboration-based strategic plan for integrative neuroimaging*. **Neuron**, 2022 Jan 5; 110(1):16-20. **IF: 16.2, Top 10% WoS cited 32**
- **Vezoli J** CA, Vinck M, Bosman CA, Bastos AM, Lewis CM, Kennedy H, Fries P. *Brain rhythms define distinct interaction networks with differential dependence on anatomy*. **Neuron**, 2021 Dec 1; 109(23):3862-3878.e5. **IF: 18.69, Top 10% WoS cited 64**
- **Vezoli J***, Magrou L*, Goebel R, Wang X-J, Knoblauch K, Vinck M, Kennedy H. *Cortical Hierarchy, Dual Counterstream Architecture and The Importance of Top-Down Generative Networks*. **Neuroimage**, 2021 Jan 15; 225:117479. *co-first authors **IF: 7.4, Top 10% WoS cited 82**
- The PRIMatE Data Exchange (PRIME-DE) Global Collaboration Workshop and Consortium. *Accelerating the evolution of nonhuman primate neuroimaging*. **Neuron**, 2020 Feb 19; 105(4):600-603. **IF: 17.17, Top 10% WoS cited 86**
- Richter CG, Bosman CA, **Vezoli J**, Schoffelen JM, Fries P. *Brain rhythms shift and deploy attention*. bioRxiv 2019 doi: <https://doi.org/10.1101/795567>
- Wianny F and **Vezoli J** CA. *Transplantation in the nonhuman primate MPTP model of Parkinson's disease: update and perspectives*. **Primate Biol**, 2017; 4(2): 185-213. **IF: 1.5, WoS cited 7**

- Wilson CR, **Vezoli J**, Stoll FM, Faraut MC, Leviel V, Knoblauch K, Procyk E. Prefrontal Markers and *Cognitive Performance Are Dissociated during Progressive Dopamine Lesion*. **PLoS Biol**, 2016 Nov 8; 14(11): e1002576. **IF: 9.80, WoS cited 8**
- **Vezoli J**^{CA}. The brain uses different frequency channels to communicate. **Med Sci** (Paris), 2016 Oct; 32(10):823-826. **IF: 0.42, WoS cited 1**
- Michalareas G, **Vezoli J**, van Pelt S, Schoffelen JM, Kennedy H, Fries P. Alpha-beta and gamma rhythms subserve feedback and feedforward influences among human visual cortical areas. **Neuron**, 2016 Jan 20; 89(2):384-97. **IF: 14.02, Top 1% WoS cited 590, Highly cited paper***
- Stoll FM, Wilson CR, Faraut MC, **Vezoli J**, Knoblauch K, Procyk E. The Effects of Cognitive Control and Time on Frontal Beta Oscillations. **Cereb Cortex**, 2016; 26(4):1715-32. **IF: 6.56, Top 10% WoS cited 92**
- Bastos AM*, **Vezoli J***, Bosman CA*, Schoffelen JM, Oostenveld R, Dowdall JR, De Weerd P, Kennedy H, Fries P. Visual Areas Exert Feedforward and Feedback Influences through Distinct Frequency Channels. **Neuron**, 2015; 85(2):390-401. *co-first authors **IF: 13.97, Top 0.1% WoS cited 1101, Highly cited paper***
- Bastos AM*, **Vezoli J***, Fries P. Communication through coherence with inter-areal delays. **Curr Opin Neurobiol**, 2015; 31C:173-180. *co-first authors **IF: 6.37, Top 10% WoS cited 279**
- **Vezoli J**^{CA}, Dzahini K*, Costes N, Wilson CR, Fifel K, Cooper HM, Kennedy H, Procyk E. Increased DAT binding in the early stage of the dopaminergic lesion: a longitudinal [¹¹C]PE2I binding study in the MPTP-monkey. **Neuroimage**, 2014; 102 Pt 2:249-61. *co-first authors **IF: 4.5, WoS cited 14**
- Fifel K, **Vezoli J**, Dzahini K, Claustrat B, Leviel V, Kennedy H, Procyk E, Dkhissi-Benyahya O, Gronfier C, Cooper HM. Alteration of daily and circadian rhythms following dopamine depletion in MPTP treated non-human primates. **PLoS One**, 2014; 9(1):e86240. **IF: 3.23, WoS cited 68**
- Markov NT*, **Vezoli J***, Chameau P, Falchier A, Quilodran R, Huissoud C, Lamy C, Misery P, Giroud P, Ullman S, Barone P, Dehay C, Knoblauch K, Kennedy H. Anatomy of hierarchy: feedforward and feedback pathways in macaque visual cortex. **J Comp Neurol**, 2014; 522(1):225-59. *co-first authors **IF: 3.22, Top 1% WoS cited 588, Highly cited paper***
- Markov NT, Ercsey-Ravasz MM, Ribeiro Gomes AR, Lamy C, Magrou L, **Vezoli J**, Misery P, Falchier A, Quilodran R, Gariel MA, Sallet J, Gamanut R, Huissoud C, Clavagnier S, Giroud P, Sappey-Marinier D, Barone P, Dehay C, Toroczka Z, Knoblauch K, Van Essen DC, Kennedy H. A weighted and directed interareal connectivity matrix for macaque cerebral cortex. **Cereb Cortex**, 2014; 24(1):17-36. **IF: 8.67, Top 1% WoS cited 671, Highly cited paper***
- **Vezoli J**, Bastos AM, Bosman CA, Schoffelen JM, Oostenveld R, De Weerd P, Kennedy H, Fries P. Inter-areal causal interactions in the Gamma and Beta frequency bands define a functional hierarchy in the primate visual system. **Perception**, 2013; 42(S):143. **IF: 1.11, WoS cited 2**
- **Vezoli J**^{CA}. Recombinant proteins to induce pluripotent stem cells: Promises for a safer and thriving step toward clinical trials. **Mov Dis**, 2011; Volume 26, Issue 8, page 1409 doi: 10.1002/mds.23858 **IF: 4.5, WoS cited 1**
- **Vezoli J**^{CA}, Fifel K, Leviel V, Dehay C, Kennedy H, Cooper HM, Gronfier C, Procyk E. Early Presymptomatic and Long-Term Changes of Rest Activity Cycles and Cognitive Behavior in a MPTP-Monkey Model of Parkinson's Disease. **PLoS ONE**, 2011; 6(8): e23952. **IF: 4.09, WoS cited 48**
- Markov NT, Misery P, Falchier A, Lamy C, **Vezoli J**, Quilodran R, Gariel MA, Giroud P, Ercsey-Ravasz M, Pilaz LJ, Huissoud C, Barone P, Dehay C, Toroczka Z, Van Essen DC, Kennedy H and Knoblauch K. Weight Consistency Specifies Regularities of Macaque Cortical Networks. **Cereb Cortex**, 2011; 21(6), 1254-72. **IF: 6.54, WoS cited 315**
- **Vezoli J** and Procyk E. Eye movement artifact do not account for frontal feedback-related potentials in nonhuman primates. **J Neurosci**, 2010; 30(12): 4187. **IF: 7.27, author response to Journal Club**
- **Vezoli J** and Procyk E. Frontal feedback related potentials in non-human primates: modulation during learning and under haloperidol. **J Neurosci**, 2009; 29(50):15675-83. **IF: 7.18, WoS cited 25**
- Sallet J, Quilodran R, Rothé M, **Vezoli J**, Joseph J-P and Procyk E. Expectations, gains, and losses in the anterior cingulate cortex. **Cogn Aff Behav Neurosci**, 2007; 7(4):327-336. **IF: 2.91, WoS cited 119**
- **Vezoli J**, Falchier A, Jouve B, Knoblauch K, Young M and Kennedy H. Quantitative analysis of connectivity in the visual cortex: extracting function from structure. **The Neuroscientist**, 2004; 10(5):476-482. **IF: 3.18, WoS cited 58**

INVITED TALKS

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- **Brain Connectivity Workshop – BCW 2026**, invited by **Prof. Pedro Antonio Valdes-Sosa** on behalf of the organizing committee 'Neural dynamics, cortical hierarchy and the special role of claustrum in hierarchical processing', June 11 2026
 - **Neuroday Lyon**, invited by the Steering Committee for datablitz session 'The NHP claustrum constitutes a unique hub structure for orchestrating inter-areal processing.', December 04 2025
 - **SFR Santé Lyon-Est**, invited by the Steering Committee for the Journée Scientifique 'Le claustrum en tant que chef d'orchestre du traitement hiérarchique dans le réseau cortical.', November 27 2025
 - **EU-Simia Japan NHP meeting**, selected by the EU-Simia Steering Committee for flash-talk 'Induced Cognitive Impairments Reversed by Cell Therapy in a Macaque Model of Parkinson's Disease', October 27-28 2025
 - **Cooperative Brain Imaging Center (CoBIC)**, MEG meeting, Frankfurt-am-Main, DE invited by **Prof. Georgios Michalareas** 'Neural dynamics, Cortical hierarchy and the Claustrum', June 26 2025

- **PRIME-DRE Global Collaboration Workshop 2024**, Flash Talk invited by the organizing committee, December 03-04 2024
- **EU-Simia Meeting**, invited by the EU-Simia Steering Committee 'Cell Therapy Reverses Motor and Non-Motor Symptoms in a Macaque Model of Parkinson's Disease', November 21-22 2024
- **Neuroscience Brown Bag**, invited by **Dr. André M. Bastos** from the department of Psychology of Vanderbilt University 'Neural Dynamics and Cortical Hierarchy', October 11 2024
- **8th Annual Meeting of Society for Claustrum Research**, invited by **Dr. Razvan Gamanut** on behalf of the organizing committee 'Connectomic analysis show that the non-human primate claustrum constitutes a unique hub structure of the cerebral cortex', October 05 2024
- **Pluripotent Stem Cells Conference (PSCC)** Pluripotent stem cells in Human, non-Human Primates, and Domestic Animals: Medical and Biotechnological Applications, Bangkok, Thailand invited by the organizing committee 'Pluripotent stem-cells to restore motor and cognitive function in a non-human primate model of Parkinson's disease', June 13-15 2024
- **1st French Symposium about Claustrum research (LNCA)**, The Claustrum, from local network to Cognitive Function - a new sight on an enigmatic brain region, Strasbourg invited by **Dr. Romain Goutagny** on behalf of the organizing committee 'Does the non-human primate Claustrum fulfill a hub function allowing orchestration of interareal information processing' Henry Kennedy and Julien Vezoli, November 08 2023
- **Lyon Neuroscience Research Center (CRNL)**, Lyon Cutting Garden - EEG and MEG methods multi-hub meeting, FR invited by **Dr. Mathilde Bonnefond** on behalf of the organizing committee 'Neural Dynamics and Cortical Hierarchy' October 19 2023
- **Laboratory of Behavioral and Cognitive Neuroscience**, Parvizi Lab, Stanford Medicine, CA, USA, invited by **Prof. Josef Parvizi** for iEEG virtual JClub 'Hierarchical organization and modularity of large-scale brain rhythms.' July 14 2022
- **Gradients of Brain Organization Workshop**, Cambridge University, UK, invited by **Dr. Casey Paquola** on behalf of the organizing committee 'Anatomical connectivity gradients differentially shape the strength of frequency-specific functional interactions networks.' June 18 2022
- **IN2PrimateBrains Workshop** (MSCA ITN), Roma, Italy, invited by **Dr. Bjørg Kilavik** on behalf of the organizing committee 'Hierarchical organization and modularity of large-scale brain rhythms.' May 4 2022
- **UniCog, NeuroSpin, CEA-Saclay**, Paris, France, invited by **Prof. Bechir Jarraya** 'Anatomical constraints differ across frequency-specific modules of large-scale brain rhythms.' April 28 2022
- **European Neuroscience Institute** (ENI-G), Göttingen, Germany, invited by **Dr. Caspar Schwiedrzik** 'Cortical Hierarchy and the Dual Counterstream Architecture.' June 2020
- **14th Biannual Conference of the German Society for Cognitive Science**, Darmstadt, Germany, invited by **Prof. Dr. Ralf Galuske** Symposia: Multinodal Processing in the Visual System. 'The Relation between Anatomical Connections Strength and Inter-areal Functional Connectivity through Rhythmic Synchronization'. 2018
- **6th International Conference on Cognitive Neurodynamics**, Seville, Spain, invited by **Dr. Steven L. Bressler** and **Dr. Raudel Sánchez-Campusano** Symposium 12: Cognitive dynamics of large-scale brain circuits. 'Large-Scale Dynamics of Frequency-Specific Cortical Interaction Maps.' 2017
- **3rd Symposium on Brainnetome Meets Genome**, Haikou, China, invited by **Prof. Tianzi Jiang** 'Inter-areal structural connectivity shapes pattern and strength of frequency-specific functional interactions.' Nov. 2016
- **Neurobiology Lab – DPZ**, German Primate Center, Göttingen, Germany, invited by **Prof. Hansjörg Scherberger** 'Inter-areal structural connectivity shapes pattern and strength of frequency-specific functional interactions.' Oct. 2016
- **16th symposium of European Primate Veterinarians on Stem cells and Gene therapy in primates**, Toulouse, France, invited by **Dr. Mélodie Moureaux** and **Dr. Mark Moshe Bushmitz** 'Neural stem-cells graft in parkinsonian monkeys: outcome on clinical, cognitive, circadian and DA function.' July 2016
- **Picower Institute of Learning and Memory**, MIT, MA, USA, invited by **Dr. Earl K. Miller** 'Inter-areal structural connectivity shapes pattern and strength of frequency-specific functional interactions.' Sept 2016
- **Princeton Neuroscience Institute**, Princeton, New Jersey, USA, invited by **Dr. Timothy J. Buschman** 'Inter-areal structural connectivity shapes pattern and strength of frequency-specific functional interactions.' Sept 2016
- **Primate Neurobiology Conference 2016**, Tübingen, Germany. (2016) "Frequency-specific directed influences constitute a functional hierarchy of visual areas in the human and non-human primate cerebral cortex"
- **LCNN - Nathan Kline Institute**, New York, USA, invited by **Dr. Charles E. Schroeder** "Anatomical connection strength directly influences inter-areal functional connectivity through rhythmic synchronization" Oct 2015
- **OHBM 2014**, Hamburg, Germany, selected abstract "Visual hierarchy revealed through directed influence asymmetries at distinct frequency bands" 2014
- **ESI-sync workshop**, Frankfurt, Germany, invited by organizing committee "Bottom-up and top-down inter-areal interactions use distinct frequency bands and define a functional hierarchy in the primate visual system" 2013
- **Seminar CRICM, Axis I Neurodegenerative Diseases**, Groupe hospitalier Pitié-Salpêtrière, Paris, France, invited by **Dr. Pierre Pouget** "Anatomical networks and frontal functions in non-human primate." 2010

ABSTRACTS

- Toplanaj D, Beneyton K, Pizzuti A, Dresbach S, Knoblauch K, Goebel R, Kennedy H, Vezoli J. (2026) Microsaccades direction as a behavioral readout of sensory predictions during bistable apparent motion perception. 15th FENS, Barcelona, Spain.
- Beneyton K, Hou Y, Luo Z, Hajar T, Abbatecola C, Wang M, Shen X, Lamy C, Misery P, Dehay C, Shen Z, Sun Y, Knoblauch K, Vezoli J, Kennedy H. (2026) Retinotopic organization of connectome and cell-type composition in primate early visual cortex. 15th FENS, Barcelona, Spain.
- Rosen BQ, Hu D, Yazdani F, Ikeda T, Ose T, Autio J, Coalson TS, Reid EK, Harwell J, Huang M, Vezoli J, Hou Y, Kennedy H, Lein E, Freiwald W, Van Essen DC, Hayashi T, Glasser MF. (2026) Advancing Primate Common Coordinate Frameworks II: fMRI and Transcriptomics Applications. OHBM 2026, Bordeaux, France.
- Hayashi T, Rosen BQ, Coalson TS, Ikeda T, Ose T, Uematsu A, Yoshida N, Aso T, Autio J, Nakamura K, Hou Y, Vezoli J, Hu D, Reid EK, Bhandiwad A, Sotiropoulos S, Lange F, Smith S, Freiwald W, Lein E, Kennedy H, Van Essen DC, Glasser MF. (2026) Advancing Primate Common Coordinate Frameworks I: Improved NHP MRI templates and atlas. OHBM 2026, Bordeaux, France.
- Toplanaj D, Hou Y, Ribeiro Gomes AR, Horvat S, Luo Z, Dehay C, Vinck M, Toroczka Z, Knoblauch K, Vezoli J, Kennedy H. (2024) Functional exploration of the hub-function of the primate claustrum in the orchestration of inter-areal processing. NeuroDay 2025, Lyon, France.
- Hou Y, Vinçon N, Coalson T, Halimi Y, Ikeda T, Hiba B, Richard N, Reid E, Glasser M, Hayashi T, Vezoli J, Van Essen DC, Kennedy H. (2025) A semi-automated pipeline for histology to MRI registration for macaque allowing surface mapping of connectivity data. SfN, San Diego, CA, USA.
- Vezoli J, Hou Y, Ribeiro Gomes AR, Wang M, Horvat S, Luo Z, Misery P, Lamy C, Dehay C, Poo M-M, Van Essen, DC, Ercsey-Ravasz M, Toroczka Z, Knoblauch K, Shen Z, Kennedy H. (2024) Connectomic analysis shows that the non-human primate claustrum constitutes a unique hub structure of the cerebral cortex. SfN, Chicago, IL, USA.
- Hou Y, Wang M, Luo Z, Magrou L, Rosen B, Autio JA, Misery P, Coalson T, Reid E, Xu Y, Lamy C, Li X, Zhu Q, Ribeiro Gomes AR, Zhang Q, Poo M-M, Dehay C, Wanduffel W, Glasser M, Knoblauch K, Hayashi T, Vezoli J, Van Essen, DC, Shen Z, Kennedy H. (2024) Transcriptomic cell-type composition and connectivity profiles define the retinotopic organization of macaque early visual cortex. SfN, Chicago, IL, USA.
- Vezoli J, Hou Y, Ribeiro Gomes AR, Horvat S, Misery P, Lamy C, Luo Z, Wang M, Shen Z, Dehay C, Toroczka Z, Knoblauch K, Kennedy H. (2024) Connectome of the non-human primate claustrum reveals a hub function for orchestrating inter-areal processing. 14th FENS, Vienna, Austria.
- Luo Z, Vezoli J, Dehay C, Knoblauch K, Hou Y, Kennedy H. (2024) Subcortical and cortical inputs to anterior insula and claustrum in macaque and mouse suggest possible species-specific implications for the role of interoceptive inference in consciousness. NeuroDay 2024, Lyon, France.
- Vezoli J, Hou Y, Ribeiro Gomes AR, Horvat S, Misery P, Lamy C, Luo Z, Toplanaj D, Dehay C, Vinck M, Toroczka Z, Knoblauch K, Kennedy H. (2024) Exploring the hub-function of the primate claustrum ensuing orchestration of inter-areal processing. NeuroDay 2024, Lyon, France.
- Vinçon N, Hou Y, Misery P, Lamy C, Dehay C, Knoblauch K, Vezoli J, Kennedy H. (2023) A semi-automated pipeline for cell detection and white matter segmentation in the macaque brain. NeuroFrance 2023, Lyon, France.
- Vinçon N, Hou Y, Misery P, Lamy C, Dehay C, Vezoli J, Knoblauch K, Kennedy H. (2023) A semi-automated pipeline for cell detection and white matter segmentation in the macaque brain. HBP Summit 2023, Marseille, France.
- Psarou E, Vezoli J, Scholvinck M.L, Ferracci P-A, Zhang Y, Grothe I, Rasmus R, Fries P. (2022) Modular, cement-free, customized headpost and pedestal implants for macaques. SfN, San Diego, CA, USA.
- Vezoli J, Bastos A.M, Bosman C.A, Kennedy H, Fries P. (2022) Attentional effects embedded in large-scale synchronized networks. 13th FENS, Paris, France.
- Vezoli J, Vinck M, Bastos A.M, Lewis C, Bosman C.A, Kennedy H, Fries P. (2022) Modularity of large-scale brain rhythms: consequences for laminar-constrained computations and cognition. CORTICON, Paris, France.
- Vezoli J, Vinck M, Bastos A.M, Lewis C, Bosman C.A, Kennedy H, Fries P. (2019) The relation between inter-areal functional and structural connectivity is frequency dependent. SfN, Chicago, IL, USA.
- Dowdall J.R, Scholvinck M.L, Zhang Y, Peter A, Vezoli J, Fries P. (2019) Rapid learning of a fixation-based visual selective attention task and its effects on V1 firing rates. SfN, Chicago, IL, USA.
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- Roesse R, Zhang Y, Vezoli J, Fries P. (2018) Silicone chamber – a new type of hermetically sealed recording chamber for acute and chronic recordings while preventing dura growth. Primate Neurobiology Conference, Tübingen, Germany.
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ORGANIZED SYMPOSIUM/CONFERENCE/WORKSHOP

2022	EBRAINS Workshop - HBP Partnering projects Meeting: Status quo & outlook, Nijmegen, Netherlands. Workshop showcasing major achievements of the Human Brain Project Partnering Projects to the wider scientific community. <i>Organizing committee: Vezoli J (Scientific chair), Verschure P (Local host), Partnering Team.</i>
2018	1st International Workshop on Predictive Processing - Prediction across sensory modalities, San Sebastian, Spain. <i>Organizing committee: Richter C, Vezoli J.</i>
2017	Symposium at the 12th Göttingen Meeting of the German Neuroscience Society - Structural and functional implementation of bottom-up and top-down influences in the primate brain, Göttingen, Germany. <i>Organizing committee: Vezoli J, Michalareas G, Vinck M.</i>
2015	2nd ESI-Systems Neuroscience Conference - Brain Codes, Frankfurt am Main, Germany. <i>Organizing committee: Singer W, Fries P, Vezoli J, Michalareas G, Vajda R.</i>

AWARDS, GRANTS

2012	Travel Grant of FENS/IBRO WERC societies for the FENS meeting in Barcelona (2-7 July 2012).
2010	Travel Grant of FENS/IBRO WERC societies for the FENS meeting in Amsterdam (2-7 July 2010).
2008	Ph.D. grant of Fondation de France : 'Physiopathology of Parkinson's Disease'.
2006	Supporting Grant for Research from La Fédération des Aveugles et Handicapés Visuels de France (FAF) on " <i>Neurophysiological correlates of visuo-cognitive processing during decision making and control of action</i> ".
2003	Ph.D. grant from Rhône-Alpes Region on "Evaluation of the therapeutic potential of transplanting dopaminergic neurons derived from adult and embryonic stem cells in a parkinsonian monkey model".

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- 2008** Ph.D. grant of Fondation de France: 'Physiopathology of Parkinson's Disease'.
- 2006** Supporting Grant for Research from La Fédération des Aveugles et Handicapés Visuels de France (FAF).

PEER REVIEW

More than 50 reviews as independent reviewer for more than 30 journals <https://www.webofscience.com/wos/author/record/958052>

NeuroImage	PLoS Computational Biology *	Neurocomputing
PlosONE	NPJ Parkinson's Disease	Patterns
Frontiers in Systems Neuroscience *	iScience	Primate Biology
PNAS	Annals of New York Academy of Science	BMC biology
Cerebral Cortex	Frontiers in Behav. Neuroscience	Neuroglia
Journal of Neuroscience	Frontiers in Comput.Neuroscience	Entropy
Stem Cells Translational Medicine	Frontiers in Neuroinformatics	Int J Mol Sci.
Nature Communications	Frontiers in Neuroimaging	Cognitive Computation
eLife	Philosophical transactions	Zoological research
Advanced Science	Science reports	Heliyon
PLoS Biology *	Military Medical Research	
	Consciousness and Cognition	

* Includes invited Academic Editor

LANGUAGES

French	native	Spanish	read, speak
English	read, speak, proficient	German	basic knowledge of