

Curriculum Vitae

Jean-Christophe Olivo-Marin

French citizen

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Present position

Professor, Institut Pasteur

Academic positions

1998 – present	Head and founder, Bioimage Analysis Unit, Institut Pasteur
2016 – present	Director, Institut Carnot Pasteur Microbes & Santé
2015 – 2018	Chief Technology Officer, Institut Pasteur
2014 – 2018	Director, Center for Innovation and Technological Research, Institut Pasteur
2010 – 2014	Chair, Cell Biology and Infection Department, Institut Pasteur
2007 – 2015	Director, Institut Carnot Pasteur Maladies Infectieuses
2004 – 2005	Founding Chief Technology Officer (joint appointment), Institut Pasteur Korea, Seoul
1990 – 1998	Staff Scientist, European Molecular Biology Laboratory (Heidelberg), Cell Biophysics and Biology Programme
1986 – 1989	Ph.D. fellow, INSERM U-66, Institut Gustave Roussy, Villejuif

Education

1998	Habilitation à Diriger des Recherches, Physics (speciality Optics) University Paris XI - Orsay, Institut d'Optique Théorique et Appliquée
1989	Ph.D. in Physics (speciality Optics), University Paris XI - Orsay, Institut d'Optique Théorique et Appliquée
1989	Diplôme d'Université de l'Institut de Formation Supérieure Biomédicale (IFSBM), Université Paris XI - Kremlin-Bicêtre
1985	DEA in Optics and Signal Processing, Université Paris XI - Orsay, Institut d'Optique Théorique et Appliquée
1984	BA in Spanish Literature, Université Paris IV - Sorbonne
1984	MSc in Physics, Université Paris XI - Orsay

Honors/Awards

- IEEE Engineering in Biology and Medicine Society Distinguished Lecturer 2021
- Distinguished Service Award 2019, IEEE Engineering in Biology and Medicine Society
- Fellow SPIE 2016
- IEEE Signal Processing Society Distinguished Lecturer 2015
- Fellow IEEE 2012
- Prix Thérèse Lebrasseur 2009, Fondation de France

Society Membership and Activities

- Co-Chair of IEEE EMBS International Summer School on Biomedical Imaging (2012-present)
- General Chair of IEEE EMBS-SPS International Symposium Biomedical Imaging 2008, ISBI'08
- Chair of Steering Committee IEEE International Symposium on Biomedical Imaging (2014-2015)
- Member of IEEE EMBS Technical Committee on BioMedical Imaging and Image Processing (2014-2017). Affiliated Member (2019-2020).
- Member of IEEE Life Sciences Technical Community Initiative (2019-2020)
- Member of National Committee EMBC 2007, Program Committee EMBC 2008, Associate Editor and Track Chair EMBC 2010, Associate Editor EMBC 2011-2012, Associate Editor and Track Chair EMBC 2013
- Member of IEEE SPS Technical Committee on Bio Image and Signal Processing (2018-2019)
- Chair of IEEE SPS Technical Committee on Bio Image and Signal Processing (2009-2011)

- Member of Program Committee SPIE Conference Wavelets and Sparsity (2011-present)

Editorial Activities

- Founding Editor in Chief, Biological Imaging (Cambridge University Press) (2021-)
- Editorial Board Member of BMC Bioinformatics (2015-2017)
- Senior Area Editor IEEE Signal Processing Letters (2013-2015)
- Editorial Board Member of the Medical Image Analysis journal (2010-2015)

Publications (selection 2021-2016)

- Olivo-Marin, J.-C. (2021) Inaugural Editorial, *Biological Imaging*, 1, 1, doi:10.1017/S2633903X2000001X
- Mukherjee, S., Lagache, T., and Olivo-Marin, J.-C. (2021) Evaluating the Stability of Spatial Keypoints via Cluster Core Correspondence Index, *IEEE Trans. Image Processing*, 30, 1, pp. 386-401. doi: 10.1109/TIP.2020.3036759.
- Boquet-Pujadas, Olivo-Marin, J.-C., and Guillén, N. (2021) Bioimage Analysis and Cell Motility, *Patterns*, 2, 1,
- de Chaumont, F., Ey, E., Torquet, N., Lagache, T., Dallongeville, S., Imbert, A., Legou, T., Le Sourd, A.-M., Faure, P., Bourgeron, T. and Olivo-Marin, J.-C. (2019) Live Mouse Tracker: real-time behavioral analysis of groups of mice with depth camera and machine learning, *Nature Biomedical Engineering*, doi: 10.1038/s41551-019-0396-1.
- Meiniel, W., Olivo-Marin, J.-C., and Angelini, E. (2018) Denoising of microscopy images: a review of the state-of-the-art, and a new sparsity-based method, *IEEE Trans. Image Processing*, 27, 8, pp. 3842-56, 10.1109/TIP.2018.2819821
- Lagache, T., Grassart, A., Dallongeville, S., Faklaris, O., Sauvonnet, N., Dufour, A., Danglot, L., Olivo-Marin, J.-C. (2018) Mapping molecular assemblies with fluorescence microscopy and object-based spatial statistics, *Nature Communications*, 9,1, pp. 698-711. doi: 10.1038/s41467-018-03053-x.
- Boquet-Pujadas, A., Lecomte, T., Manich, M., Thibeaux, R., Labruyère, E., Guillén, N., Olivo-Marin*, J.-C., and Dufour*, A.C. (2017) BioFlow: a non-invasive, image-based method to measure speed, pressure and forces inside living cells. *Scientific Reports*, 7, 1, 9178. doi: 10.1038/s41598-017-09240-y.
- Meijering, E., Carpenter, A., Hamprecht, F., Peng, H., and Olivo-Marin, J.-C. (2016) Imagining the future of bioimage analysis, *Nature Biotechnology*, 34, 12, pp. 1250-5

Invited talks (selection 2020-2016)

- Workshop on Statistical Methods for Post Genomic Data (SMPGD), Barcelona, Spain (2019)
- Quantitative Biolmaging, Rennes, France (2019)
- Workshop on Information Optics, Montreal, Canada (2018)
- ELMI, University College, Dublin (2018)
- Conference on Biolmaging, Institut Fresnel, Marseille (2017)
- Optical Microscopy Symposium, Harvard, USA (2016)
- Image based Systems Biology, Jena, Germany (2016)
- Biofrontiers Symposium, Boulder, USA (2016)
- Journées Imagerie optique non conventionnelle, Paris (2016) (Plenary Talk)
- Quantitative Biolmaging, Delft, Netherlands (2016)
- International Conference on BioSignal Analysis, Processing and System (ICBAPS), Kuala Lumpur (2015) (Keynote Talk)
- International Conference on Image Processing, Tools, Theory and Applications, Orléans (2015)
- Seeing is believing - Imaging the Processes of Life, EMBL Symposium, Heidelberg, Germany (2015)
- School of ICASSP, Melbourne, Australia (2015)