

CURRICULUM VITAE

Jean-Luc PUTAUX

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PRESENT ACADEMIC POSITION

- Director of Research at CERMAV-CNRS in Grenoble

ACADEMIC POSITIONS AND QUALIFICATIONS

- since 2015: scientific coordinator of the Electron Microscopy Facility of the NanoBio-ICMG Platform
- 2012: "Scientific Excellence" award (PES)
- 2012: Member of the National Committee of CNRS (1 year)
- since 2008: Referee for the proposals submitted to Plateau National de Plateformes en Microscopie Electronique et Sonde Atomique" (METSA)
- 2007-11: Leader of the "Structure and Properties of Glycomaterials" group at CERMAV
- 2006: Post-doctoral degree to supervise PhD students, J. Fourier University, Grenoble
- 1993: Research Associate position at Centre National de la Recherche Scientifique
- 1991-92: post-doctoral position at CECM-CNRS (Vitry-sur-Seine, dir. J.-P. Chevalier)
- 1991: Doctoral degree, J. Fourier Univ. (Grenoble). Research at CEA (dir. J. Thibault)
- 1987: Master Degree in Metallurgy, J. Fourier University, Grenoble
- 1984-87: Degree in Engineering at Ecole Nationale Supérieure d'Electrochimie et d'Electrometallurgie (Institut National Polytechnique de Grenoble)

RESEARCH TOPICS - EXPERTISE

- Morphology, structure and polymorphism of crystalline polysaccharides (transmission electron microscopy and wide-angle X-ray diffraction)
- Electron crystallography of solvated and radiation-sensitive biopolymers
- Morphology, interaction and self-assembling of nano-objects in suspension (cryo-TEM)

PARTICIPATION TO FUNDED PROJECTS IN THE PAST 10 YEARS

- Coordinator of ANR CP2D project "*In vitro* synthesis of hyperbranched polymers and innovative nanoparticles by using a bio-inspired toolbox" (Glycoballs, 2009-13)
- Partner supervisor in the ANR Blanc project "Identification of the molecular dialog between the chloroplast division and starch metabolism" (CastaDivA, coord. C. D'Hulst, 2011-14)
- Partner supervisor in the ANR project "Nano-assemblies based on bioesterified cyclodextrins: applications in nanomedicine" (Cydexcar, coord. D. Wouessidjewe, 2011-14)
- Participant to a PICS-CNRS project with Tokyo Univ. (coord. Y. Nishiyama, 2011-13)
- Participant to project "Development of cellulose-based nanocomposites with controlled orientation and UV curing" (NanoCompUV) funded by Institut Carnot PolyNat (2017-18)
- Participant to project "Development of aptamers for the in situ characterization of molecules in wood" (Aptabois) funded by Institut Carnot PolyNat (2019)
- Participant to the project "Biodegradable plastics based on thermoplastic starch filled with cellulose nanofibrils and polybutylene adipate terephthalate" (PHC-Utique program with Tunisia - coord. S. Boufi 2019-20)
- Partner supervisor in the ANR PRC project "Anisotropic nano-to-micro-structured cellulosic thin films tailored by ultrafiltration and UV curing" (ANISOFILM, coord. F. Pignon, 2021-24)

STUDENT SUPERVISION IN THE PAST 10 YEARS

PhD students and postdoc students

- 2009-12: Pan Chen (PhD thesis co-directed with K. Mazeau and Y. Nishiyama)
- 2009-12: Firas Azzam (PhD thesis co-directed with B. Jean)
- 2010: Paula Tischer (post-doc, 6 months)
- 2010-12: Christine Lancelon-Pin (postdoc, 24 months)
- 2012-13: Christine Lancelon-Pin (postdoc, 15 months)
- 2012-13: Aline Barbat-Rogéon (postdoc, cosupervised with S. Boisseau, 12 months)
- 2015-18: Cong-Anh-Khanh Le (PhD thesis codirected with D. Wouessidjewe, DPM, Grenoble)
- 2019-22: Pennapa Prommao (PhD thesis co-directed with S. Tongta, Suranaree University of Technology, Thailand)
- 2020-23: Khadija Trigui (PhD thesis codirected by S. Boufi, University of Sfax, Tunisia, and A. Magnin, LRP, Grenoble)

Interns

- 2011: Benjamin Briois (licence 3, co-supervised with S. Boisseau, 6 months)
- 2013: Shivalika Tanwar (master 2 "Nanosciences", 4 months)
- 2015: Marion Pastrello (master 1, 4 months)
- 2018: Yanis Chaabi (master 1, co-supervised with B. Jean, 4 months)

BIBLIOMETRY (*Web of Science – March 2021*)

- Number of publications in peer-reviewed international journals: **191**
- Number of publications in peer-reviewed proceedings: **36**
- Book chapters: **11**
- Invited conferences: **20**
- H-factor: **50**

5 RECENT PUBLICATIONS

1. C.A.K. Le, L. Choisnard, D. Wouessidjewe, J.-L. Putaux. Polymorphism of V-amylose complexed with aliphatic diols. *Polymer* 213 (2021), 123302
<https://doi.org/10.1016/j.polymer.2020.123302>
2. M.K. Brewer, J.-L. Putaux, M. Sullivan, A. Rondon, A. Uittenbogaard, M.S. Gentry. Polyglucosan body structure in Lafora disease. *Carbohydr. Polym.* 240 (2020), 116260 – <https://doi.org/10.1016/j.carbpol.2020.116260>
3. Y. Ogawa, J.-L. Putaux. Transmission electron microscopy of cellulose. Part 2: Technical and practical aspects. *Cellulose* 26 (2019), 17-34 – <https://doi.org/10.1007/s10570-018-2075-x>
4. C.A.K. Le, L. Choisnard, D. Wouessidjewe, J.-L. Putaux. Polymorphism of crystalline complexes of amylose with fatty acids. *Int. J. Biol. Macromol.* 119 (2018), 555-564
<https://doi.org/10.1016/j.ijbiomac.2018.07.163>
5. J.-L. Putaux, C. Lancelon-Pin, F.-X. Legrand, M. Pastrello, L. Choisnard, A. Gèze, C. Rochas, D. Wouessidjewe. Self-assembly of amphiphilic biotransesterified β -cyclodextrins: Supramolecular structure of nanoparticles and surface properties. *Langmuir* 33 (2017), 7917-7928 – <https://doi.org/10.1021/acs.langmuir.7b01136>