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**Peer-Reviewed Publications, Books, Book Chapters,
Invited Conferences
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PEER-REVIEWED PUBLICATIONS

Manuscripts 2026

341. Trojani MC, Nollet M, Camuzard O, Santucci-Darmanin S, Breuil V, Burel-Vandenbos F, Fradet L, Le Gfall M, Salnot V, **Heymann D**, Carles GF, Pierrefite-Carle V. *Atg5/autophagy inactivation in mouse bone microenvironment promotes tumor development. Autophagy, in press.*

340. Bassi G, Saqawa M, Apoloni L, Diaz-Prado S, Ollivier E, Levergeois R, Sandri M, Campodoni E, Cochonneau D, Panseri S, **Heymann D***, Montesi M*. Deciphering the interaction between osteosarcoma and mesenchymal stem cells in a 3D bone-mimetic co-culture model. **Biomed Pharmacother, in press.**

339. Babuty A, Muñoz-Garcia J, Christophe OD, Fradet L, Taupin M, Cochonneau D, Ollivier E, Driessler F, Lange C, Boychenko O, Heymann MF, **Heymann D**. Factor VIII restores bone parameters and modulates muscle proteo-metabolome in Factor VIII knockout male mice. **Bone Res, in press.**

338. Jubelin C, Golias M, Cochonneau D, Muñoz-Garcia J, **Heymann D**. Three-dimensional cell cultures: applications to cancer biology. **Bull Cancer in press.**

337. Golias M, Krupova Z, Defrenaix P, Heymann MF, **Heymann D**. Microdissection: insights and progress in the era of precision medicine. **Pathol Res Pract. 2026 ;278:156328**

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336. Golias M, Krupova Z, Defrenaix P, Heymann MF, **Heymann D**. Comparing RNA extraction protocols from formalin-fixed paraffin-embedded microcor samples. **PLoS One. 2025;20(12):e0338439.**

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333. Landry C, Klusa D, Cochonneau D, Supiot S, **Heymann D**. Circulating tumor cells for the prediction of the response to radiation therapy in prostate cancer. **Br J Radiol, 2025; 98(1175):1899-1911.**

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331. Muñoz-Garcia J, Vargas-Franco JW, Grigoriadis AE, Lézot F, **Heymann D**. Pre-clinical murine models of bone sarcomas. **Methods Mol Biol. 2025;2885:383-398.**

329 Klusa D, Cochonneau D, Ollivier E, Chalopin A, **Heymann D**. Isolation and characterization of circulating tumor cells. **Methods Mol Biol.** **2025;2885:99-112**

328. Bull EC, Singh A, Harden AM, Soanes K, Habash H, Toracchio L, Carrabotta M, Schreck C, Shah KM, Riestra PV, Chantoiseau M, Da Costa MEM, Moquin-Beaudry G, Pantziarka P, Essiet EA, Gerrand C, Gartland A, Bojmar L, Fahlgren A, Marchais A, Papakonstantinou E, Tomazou EM, Surdez D, **Heymann D**, Cidre-Aranaz F, Fromigue O, Sexton DW, Herold N, Grünewald TGP, Scotlandi K, Nathrath M, Green D. Targeting metastasis in paediatric bone sarcomas. **Mol Cancer.** **2025;24(1):153**

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- **Webinar organization and moderator, IBSM-BoneKey, 22 March 2013.** Recent advances in the therapy of osteosarcomas.

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- **Organisation and chairman of a webinar** (IBSM-BoneKey, 22 March 2013) Recent advances in the therapy of osteosarcomas (<http://www.nature.com/bonekey/community/tag/webinar/page/2/>)

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- **2nd of DEPAArray user meeting. Bologna, Italy, November 10-11, 2015.** Interests of the DEPAArrayTM for studying the pathogenesis of osteosarcoma.

- **6th Mellanby Centre Research Day, Sheffield, 4th December 2015.** Bone tumours in children : new perspectives.

- **3rd Bone Oncology and Tumour Microenvironment workshop, 16 October 2015.** The University of Sheffield. Osteosarcoma has arrived in Sheffield.

- **Annual meeting of Academic Unit of Oncology and Western Park Hospital, Sheffield, 6 November 2015.** Bone sarcoma : new projects in Sheffield.

2016

- **29th European Musculo-Skeletal Oncology Society (EMSOS)**, Invited conference, « Tumour heterogeneity of bone sarcomas : the next challenge », 25-27 May 2016, La Baule, France.

- **University of Leiden (Leiden University Medical Centre)** « Tumour microenvironment as a source of therapeutic targets in osteosarcoma" 2 June 2016.

- **Société Française de lutte contre les Cancers et les leucémies de l'Enfant et de l'adolescent (SFCE)**, « Méthodes d'Analyse et Intérêt Clinique de l'Hétérogénéité Tumorale: Cas des Sarcomes Osseux", Curie Institute, Paris 25 December 2016

2017

- **2nd Symposium on Advances in Cancer Immunology and Immunotherapy**, « Circulating tumor cells and epithelial to mesenchymal transition (EMT) ». Athens (Greece) 15-17 December 2016.

- **Invited conference by the UMR E 4320 TIRO-MATOs CEA/University of Nice** (Mécanismes biologiques des Altérations du Tissu Osseux), **31 March 2017.** Interleukin-34: mechanisms of action, biological functions and therapeutic interests in oncology.

- **30th Meeting of European Musculo-Skeletal Oncology Society (Budapest, Hungary, 26-28 April 2017).** “Circulating Tumour Cells as a biomarker of early/recurrent disease and therapeutic response in a preclinical model of osteosarcoma ».

- **DEPAArray workshop (Innovation hub, Cancer Centre at Guy's Hospital, London ; 16 June 2017).** “Dielectrophoresis-based microchip for the study of gap junctional intercellular communications

and early/recurrent disease in a preclinical model of osteosarcoma”.

- **4th European Bone Sarcoma Networking (London, 21-23 June 2017).** «Circulating tumour cells »

- **Sheffield Experimental Cancer Medicine Centre (ECMC), 30th June 2017,** « Rare Tumours »

-**13-15th September 2017 European Orthopedic Research Society.** « Quality and quality control in tissue banking, gene and cellular therapy » (workshop: « Cell and tissue banking for tissue engineering »)

- **4th DEPAArray user meeting, Bologna, Italy, 26-27 September 2017.** “Analysis of the early events in metastatic in osteosarcoma”

- **4th meeting of the International Society of Cancer Metabolism (ISCaM), Bertinoro, Italy, 19-21 October 2017.** « Tumour Heterogeneity: The Key Advantages of Single-Cell Analysis »

- **Mellanby Centre Non-coding RNAs in Bone and Cartilage Workshop (Sheffield, UK) 19-20 October 2017.** "miRNA and osteosarcoma"

2018

- **45th European Calcified Tissue Society (Valencia, Spain), 26-29 May 2018,** « RANKL and Oncogenesis »

- **8th International Workshop on Advances in the Molecular Pharmacology and Therapeutics of Bone and other Musculoskeletal Diseases and Cancer and Bone Society 2018 Meeting, 30 June -3 July 2018.** “Sarcoma and bone tumours”

- **EuSARC 2018, The biology of sarcoma a residential workshop, Bertinoro (Italy), 31 May-2 June 20178,** “Analytical methods to assess tumor heterogeneity”

- **5th DEPAArray user meeting, Philadelphia, USA, 18-19 September 2018.** “Rare cell events in sarcoma”

-**27th Congress of European Association of Tissue Banks, October 17-19, Lille, FR.** « Quality control in tissue banking »

- **Réunion d'autonomie de la Société Française des Cancers de l'Enfant (Paris, FR), 2-27 Novembre 2018** « Hétérogénéité Tumorale des Sarcomes Osseux »

- **4th Symposium Advances in Cancer Immunology and Immunotherapy, 29 Nov-1 Dec 2018, Athens Greece.** « Therapeutic advances in immunotherapy in the field of mesenchymal tumors. »

2019

- **International osteosarcoma research symposium. In memory of Frankie Biggs. 31 January 2019. London, UK.** « Isolation of osteosarcoma circulating tumor cells through parsortix. »

- **46th European Calcified Tissue Society, Budapest (Hungary), 10-14 May 2019.** « Molecular mechanisms driving primary bone sarcomas. »

- **Bisphosphonates 2019, Celebrating 50 years. Sheffield (UK), 15-17 July 2019.** « Bisphosphonates in primary bone tumors – do they have a role ? »

2021

- **10^{ème} Symposium du Groupe d'Etude des Métastases Osseuses (11-12 Mars 2021).** “Tumeurs à cellules géantes: physiopathologie”

- **Innovative Therapies for children cancer (ITCC, « Solid tumour biology day » (Virtual meeting, UK), 18th June 2021** « MultiTyrosine Kinase inhibitors in bone sarcomas: targets and clinical need »

- **Joint Oncology/Institute of Reproductive and Developmental Biology Seminar series (Imperial College of London, UK). 07th October 2021,** « Interleukin-34 and M-CSF: more than twin cytokines ».

2022

- **Association Française d'Histotechnologie, Marseille 16-17 Juin 2022**, "Identification des cellules du tissu osseux par histochimie enzymatique et immunohistochimie"
- **University of Chile, 9th August 2022**, "Surgical pathology of the Temporomandibular Joint Course for trainees" "Pathophysiology of the osteoarticular diseases".
- **University of Chile (Santiago, Chile), 5th October 2022**. « Interleukin-34 and M-CSF: more than twin cytokines ».
- **University of Chile (Santiago, Chile), 6th October 2022**. « Bone sarcomas: interest of liquid biopsies to follow the tumour heterogeneity».
- **Medical College of Wisconsin, Blood Research Institute (USA), 6th December 2022**, "FVIII: biological activities beyond hemostasis"
- **Course on Sarcomas in children and AYA, from biology to clinic (12-13 December 2022, Paris)**. « Microenvironnement in bone tumors »

2023

- « **Precision Online webinar « Precision Medicine Panel Discussion » organized by Perkin Elmer, 23th February 2023** medicine.
- **European Musculo-Skeletal Oncology Society (EMSOS) 2023**, 10-12 May, Bruxelles, Belgique. Key note speaker. "Recent advances in osteosarcoma"
- **Société Française d'Endocrinologie**, 4-7 Octobre (Marseille). «Techniques de culture cellulaire en 3D »
- **National Hemophilia Congress organized by Korea Society of Hematology (KSH) on 13th October 2023**. Virtual presentation. "Extrahemostatic role of FVIII on bone and endothelial cells."
- **ERA CHAIR 2020 ESEI BIOMed (Prof. Dragoi)**, 30-31st October 2023 (Bucarest, Romania)." Liquid biopsies and 3D cell cultures to unravel tumor heterogeneity

2024

- **2^{ème} Edition du Master Class « Facteur de Coagulation » (SOBI)**, online conference. 16th May 2024, « FVIII : connus et inconnus »
- **Strike Meeting (FP7) 25th-27th January 2024, Bologna (Italy)**. Osteosarcoma: therapeutic targets and technical approaches for analyzing the tumor heterogeneity
- **Cancéropôle Grand Ouest, Réseau Molécules Marines, Métabolisme & Cancer, Colloque annuel, 23rd-24th May 2024 (Mansigné, France)**. Exopolysaccharides bactériens d'origine marine et tissu osseux normal et pathologique.
- **Hémophilie aujourd'hui et demain, rencontre d'Experts, Paris, 22 Novembre 2024**. Facteur VIII plus qu'un simple (F)Acteur de la coagulation?
- **37^{ème} congress Français de Rhumatologie, Paris, 10 Décembre 2024**. Etiologie et biologie des tumeurs à cellules géantes.

2025

- **11th Skeletal Endocrinology Meeting, 13th-15th March 2025**, Trento, Italy. Osteosarcoma
- **27th March 2025 (Paris, France)**. Colloque Fondation ARC "Cancers des Adolescents et Jeunes Adultes", "Biologie des ostéosarcomes chez les AJA"

- **4th April 2025, Printemps de la SFSPM, Rencontre avec le GEMO (Paris, France)**, Nouvelles cibles thérapeutiques pour les métastases osseuses des cancers du sein: de la paillasse à la clinique”
- **Universiy Andrés Bello (Santiago, Chile), 13th October 2025**, “Biotherapies and Bone remodelling”.
- **Eurospine Annual meeting 2025, 21th October 2025**, “Epidemiology and pathophysiology of spinal metastases”

PRESS COMMUNICATION

- **2013, Videos** (<http://www.thinkovery.com/recherche-site?keys=heyman>)
 - . Quel Environnement favorise les tumeurs? (Which environment facilitates the tumours?) (09/2013)
 - . Le cancer de l'os. (The bone cancer)(09/2013)
 - . Qu'est ce qu'un os? (What is a bone?)(09/2013)
 - . Comment se diffuse la tumeur? (How migrate the tumour cells?)(09/2013)
 - . Quelles relations entre l'âge et le cancer? (Relationships between age and cancer?) (09/2014)
 - . Quelle thérapie d'avenir contre le cancer? (Which future therapy again cancer?) (01/2015)
- **University of Nantes**, portrait de Chercheur (<http://www.univ-nantes.fr>)
- **2013, Sciences et Santé**, n°13 March-April 2013: portrait de chercheur, En savoir plus : Isoler les cellules tumorales qui circulent dans le sang des patients victimes d'un cancer de l'os, c'est la mission de la plateforme de tri cellulaire unique en France, DEPArray. A la clé: la prévention des métastases et le développement de thérapies ciblées.

 Short article describing the first platform in France and located in Nantes (Heymann's Laboratory), to isolate circulating tumour cells and based on the DEPArray technology
- **2014, Science et Santé**, n°19 March 2014, Ostéosarcome: augmenter l'efficacité de la chimiothérapie (osteosarcoma to improve the efficacy of chemotherapy)
- **2017, Sponsor of the press pack "Tumeurs osseuses : du diagnostic aux travaux de recherche"** (Fondation pour la Recherche Médicale, FR)
- **2025, Brochure ARC Foundation** « Les sarcomes osseux »