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Tailoring the tools to study prostate cancer metastasis

La Manna, F.

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List of publications

1. **Karkampouna S***, **La Manna F***, Benjak A, Kiener M, De Menna M, Zoni E, Grosjean J, Klima I, Garofoli A, Bolis M, Vallergera A, Theurillat JP, De Filippo MR, Genitsch V, Keller D, Booij T, Stirnimann C, Eng K, Sboner A, Ng C, Piscuoglio S, Gray P, Spahn M, Rubin M, Thalmann GN, Kruithof-de Julio M. "*Patient-derived xenografts and organoids model therapy response in prostate cancer*". Nat Commun 12, 1117 (2021). Doi: 10.1038/s41467-021-21300-6. *authors equally contributed.
2. **La Manna F**, De Menna M, Patel N, Karkampouna S, De Filippo M, Klima I, Kloen P, Beimers L, Thalmann GN, Pelger RCM, Jacinto E, Kruithof-de Julio M. "*Dual-mTOR Inhibitor Rapalink-1 Reduces Prostate Cancer Patient-Derived Xenograft Growth and Alters Tumor Heterogeneity*." Front Oncol 10:1012 (2020). doi: 10.3389/fonc.2020.01012.
3. Rodrigues Sousa E, Zoni E, Karkampouna S, **La Manna F**, Gray PC, De Menna M, Kruithof-de Julio M. "*A Multidisciplinary Review of the Roles of Cripto in the Scientific Literature Through a Bibliometric Analysis of its Biological Roles*". Cancers (Basel) 12(6):1480 (2020). Doi: /10.3390/cancers12061480
4. **La Manna F***, **Karkampouna S***, **Zoni E***, De Menna M, Hensel J, Thalmann GN, Kruithof-de Julio M. "*Metastases in Prostate Cancer*." Cold Spring Harb Perspect Med. 9(3). pii: a033688. (2019) doi: 10.1101/cshperspect.a033688. *authors equally contributed.
5. Liverani C, De Vita A, Minardi S, Kang Y, Mercatali L, Amadori D, Bongiovanni A, **La Manna F**, Ibrahim T, Tasciotti E. "*A biomimetic 3D model of hypoxia-driven cancer progression*". Sci Rep 9(1):12263 (2019). Available from: <http://www.nature.com/articles/s41598-019-48701-4>
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7. Mercatali L, **La Manna F**, Miseroocchi G, Liverani C, De Vita A, Spadazzi C, Bongiovanni A, Recine F, Amadori D, Ghetti M, Ibrahim T. "*Tumor-Stroma Crosstalk in Bone Tissue: The Osteoclastogenic Potential of a Breast Cancer*

- Cell Line in a Co-Culture System and the Role of EGFR Inhibition.*" Int J Mol Sci 18(8). (2017) doi: 10.3390/ijms18081655.
8. Zoni E, Chen L, Karkampouna S, Granchi Z, Verhoef EI, **La Manna F**, Kelber, J, Pelger, RCM, Henry MD, Snaar-Jagalska E, van Leenders GJLH, Beimers L, Kloen P, Gray PC, van der Pluijm G, Kruithof-de Julio M. "*CRIPTO and its signaling partner GRP78 drive the metastatic phenotype in human osteotropic prostate cancer*". Oncogene 36(33):4739–49 (2017) doi: 10.1038/onc.2017.87
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Curriculum vitae

Federico La Manna was born on June 6th 1987 in Bologna, Italy. In 2006 he started a bachelor degree in biotechnology at the University of Bologna. He completed the study program with a molecular thesis on the biochemical adaptations of *B. lactis* to the human gastrointestinal tract, at the Department of Medical and Surgical sciences, under the guidance of prof. Patrizia Brigidi. In 2009, Federico started an MSc program in pharmaceutical biotechnologies, completed *cum laude* in 2012 with a thesis on the immunomodulatory properties of human mesenchymal stem cells, upon osteogenic or adipogenic differentiation. The work was performed under the supervision of dr. Sara TrabANELLI and dr. Marilena Ciciarello at the Cell Therapy Lab of the Institute of Hematology "L. and A. Seragnoli", led by prof. Roberto M. Lemoli. After graduation and a brief conclusive period to complete the research project of his thesis, Federico started his work experience as a research collaborator in the Center of Osteoncology and Rare Tumors of the IRCCS I.R.S.T "Dino Amadori". In 2014-2015, Federico worked at a project in collaboration with the Urology department of the Leiden University Medical Center (LUMC), in the Netherlands, as a visiting scientist. In 2015, after his experience as visiting scientist, he started his PhD studies in the Urology Laboratory of the LUMC, in the group of dr. Gabri van der Pluijm and under the joint supervision of prof. Rob Pelger and prof. Marianna Kruithof-de Julio. The next year, he relocated to the Urology research laboratory of the Department of BioMedical Research (DBMR) of Universität Bern, where he is currently appointed and headed by prof. Marianna Kruithof-de Julio, for a joint work between the LUMC and the DBMR.

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