

Keynote seminar "Biologie & Clinique"

Professor Ian MACARA

Vanderbilt University School of Medicine, Nashville, TN

Le Prof Ian Macara s'intéresse à la machinerie moléculaire qui entraîne la mise en place et le maintien de la polarité cellulaire et à la façon dont des défauts de la polarité cellulaire peuvent favoriser développement de cancers du sein.

Epithelial Homeostasis in Morphogenesis and Cancer

Invitation : Jean Paul Borg - Centre de Recherche en Cancérologie de Marseille

Mardi 24 Avril 2018 à 11h - *Accès libre*

Salle de Conférence du Centre d'Information, de Prévention et de Consultation en Cancérologie de l'Institut Paoli-Calmettes, entrée et parking 15 Bd Leï Roure - 13009 Marseille

Renseignements

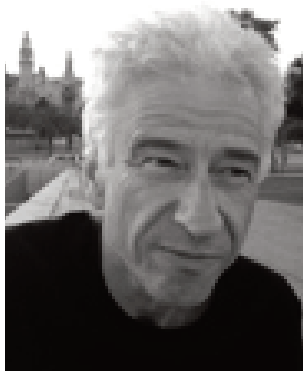
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Centre de Recherche en Cancérologie de Marseille

Unité Mixte de Recherche

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Epithelial Homeostasis in Morphogenesis and Cancer



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The Macara laboratory is interested in the molecular machinery that drives and maintains apical/basal polarity and spindle orientation of epithelia, and use several different systems to study this - 3D cell cultures and mouse mammary glands. They are using the new CRISPR/Cas9 gene editing system to generate knockout cell lines and mice, to facilitate the study of the cell polarity machinery. They are also interested in how defects in cell polarity can promote breast cancer.

Retour
Cliquez Ici

Selected publications:

The Par3 polarity protein is an exocyst receptor essential for mammary cell survival.

Ahmed SM, [Macara IG](#).
Nat Commun. 2017 Mar 30;8:14867.

Loss of the Par3 Polarity Protein Promotes Breast Tumorigenesis and Metastasis.

McCaffrey LM, Montalbano J, Mihai C, [Macara IG](#).
Cancer Cell. 2016 Aug 8;30(2):351-352.

An In Vivo Gain-of-Function Screen Identifies the Williams-Beuren Syndrome Gene GTF2IRD1 as a Mammary Tumor Promoter.

Huo Y, Su T, Cai Q, [Macara IG](#).
Cell Rep. 2016 Jun 7;15(10):2089-2096.

Mechanisms of polarity protein expression control.

Ahmed SM, [Macara IG](#).
Curr Opin Cell Biol. 2016 Oct;42:38-45.

Identification of p62/SQSTM1 as a component of non-canonical Wnt VANGL2-JNK signalling in breast cancer.

Puvirajesinghe TM, Bertucci F, Jain A, Scerbo P, Belotti E, Audebert S, Sebbagh M, Lopez M, Brech A, Finetti P, Charafe-Jauffret E, Chaffanet M, Castellano R, Restouin A, Marchetto S, Collette Y, Gonçalves A, [Macara IG](#), Birnbaum D, Kodjabachian L, Johansen T, Borg JP.
Nat Commun. 2016 Jan 12;7:10318.

The Par3-like polarity protein Par3L is essential for mammary stem cell maintenance.

Huo Y, [Macara IG](#).
Nat Cell Biol. 2014 Jun;16(6):529-37.

PTK7-Src signaling at epithelial cell contacts mediates spatial organization of actomyosin and planar cell polarity.

Andreeva A, Lee J, Lohia M, Wu X, [Macara IG](#), Lu X.
Dev Cell. 2014 Apr 14;29(1):20-33.

Organization and execution of the epithelial polarity programme.

Rodriguez-Boulan E, [Macara IG](#).
Nat Rev Mol Cell Biol. 2014 Apr;15(4):225-42.