

Laboratoire "Développement et Régénération des Tissus Dentaires"



(EA 1892 / ESPRI INSERM – IFR62)

Responsable: Dr. Françoise BLEICHER



Composition de l'équipe :

Permanents:

BLEICHER Françoise (MCU-HDR)

MAGLOIRE Henry (PU/PH)

STAQUET Marie-Jeanne (CR1 CNRS-HDR)

FARGES Jean-Christophe (MCU/PH-HDR)

SEUX Dominique (MCU/PH)

LUCCHINI Marion (MCU/PH)

COUBLE Marie-Lise (Ingénieur d'étude)

ROMEAS Annick (Technicienne supérieure)

Etudiants en 3^{ème} cycle:

CARROUEL Florence (thèse EDISS)

DURAND Stéphanie (Assistante- thèse BMIC)

LEHMANN Nicolas (Assistant- thèse BMIC)

SIMON-THIVICHON Béatrice (Master BCMO)

Masters de recherche et Ecoles Doctorales de rattachement :

Master Sciences, Technologies, Santé : Mentions "Biologie cellulaire et moléculaire, Oncologie"; "Biochimie"

Ecole Doctorale Biologie Moléculaire Intégrée et Cognitive (BMIC)

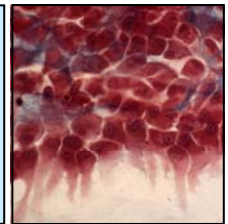
Ecole Doctorale Interdisciplinaire Sciences-Santé (EDISS)

Participation à une unité d'enseignement européenne (30 ECTS): Tissue Engineering, dirigée par D. Hulmes (IBCP, Lyon)

Axes de recherche :

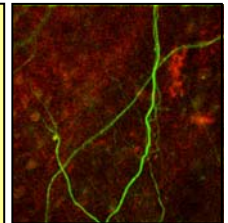
Odontoblast differentiation and new genes. Resp: F. Bleicher

- Identification of new genes associated with the odontoblast phenotype: characterization of two genes (*smile* and *hugo*) and their expression products.
- Transcriptome analysis by DNA microarrays.



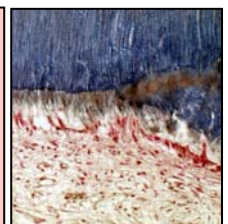
Odontoblast/nerve relationships. Resp: H. Magloire

- Mechanotransduction: role of mechanosensitive ion channels and primary cilium in the signal transduction.
- Nerve-odontoblast relationship: role of adhesion and axonal guidance proteins.



Dentin healing and cellular engineering. Resp: J.C. Farges et M.J. Staquet

- Effects of active molecules and biomaterials on pulp-dentin repair in vitro.
- Characterization et differentiation of human dental pulp stem cells in odontoblasts.



Techniques : In vitro differentiation of human odontoblasts; Coculture of trigeminal ganglion and odontoblasts; Culture of human teeth slices; Molecular biology (in situ hybridization, real-time PCR ...); Biochemistry; Immunohistochemistry; Confocal microscopy; Flow cytometry.

Principales collaborations:

- Réseau COST B23: Orofacial Development and Regeneration (19 pays européens)
- Réseau GIS "Maladies rares": Réseau français d'odontogénétique (9 laboratoires: INSERM E110, Paris 7; EA1892, Lyon; Odontologie Pédiatrique, Université Strasbourg; Santé Publique, Université Paris 7; EA2496, Paris 5; INSERM U428, Paris; Centre de lutte contre le cancer, Université Bordeaux II; INSERM U424, Strasbourg; CNRS UMR8570, Paris 7).
- Programme Inserm "Cellules souches somatiques" (4 laboratoires: INSERM E110; EA1892; UPR CNRS 1983; EA2496).
- Industrie: Lokki, Expanscience, Septodont