



# University-Hospital Federations 2020-24 Joint AAP 2019 of AP-HP, INSERM and Paris Region Universities

What do they expect from FHU?

Create a strong synergy between the hospital, universities and research organizations to:

- -Improve medical research
- -Improving the quality of care
- -Contributing to the rapid spread of innovation
- -Give a better international visibility

September: Selection by COPIL of the auditioned candidates (29/47 projects submitted)

December: International Jury chaired by Prof. Kim Fox of Imperial College: 21 projects selected by the

leaders of the 3 partners.

January 2020: Creation of FHU labeled for 5 years (COVID delays)

..... little tour of the 21 FHU's themes ....

## **Targeted Diseases**

## Pathophysiological mechanisms

Endeavour to PerSonalize Interventions for Sepsis

Improve clinical care, treatment and research in neurovascular disorders

Reducing mortality and severe

morbidity in the first 3 years of life

Prosthetic joint infections: innovative strategies

Understanding **SENEsCence** to improve life course health trajectory

**Innovations** in **Hepatology** 

Improving Emergency Care

Early Identification of Individual Trajectories in NeuroDevelopmentalDisorders

InnovaTive theRapy for immUne disordErs

**Predict & Prevent Heart Failure in Young Subjects** 

Excellence network for the rapeutics in neuromuscular disorders

Addiction And Psychiatry Transformation with Precision Medicine

Personalized medicine in chronic cardiovascular, respiratory, renal diseases and organ transplantation

**Cancer and Autoimmune/inflammatory diseases Relationship** 

PRecision Medicine for a cOMprehensive CarE of Critically ill patients

Multiscale Optimized Strategy for Artificial Intelligence-based Imaging Biomarkers in Digestive Cancer Applications in

hepatocellular carcinomas and

neuro-endocrine tumors

Paris Center for Microbiome Medicine

**Fighting Prematurity** 

Musculo-Skeletal diseases and Therapeutic Innovations

Network of Research in Substance Use Disorders

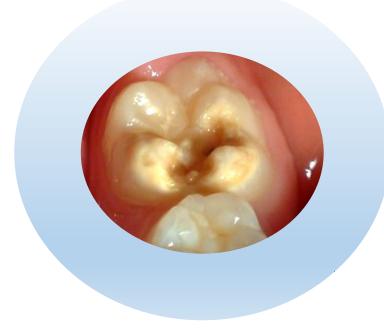
Personalized and innovative medicine



## **University-Hospital Federation** AP-HP, Paris University , INSERM

**DDS-ParisNet: Dental Diseases Network in Paris** 

#### **Ariane Berdal**



#### **Catherine Chaussain**

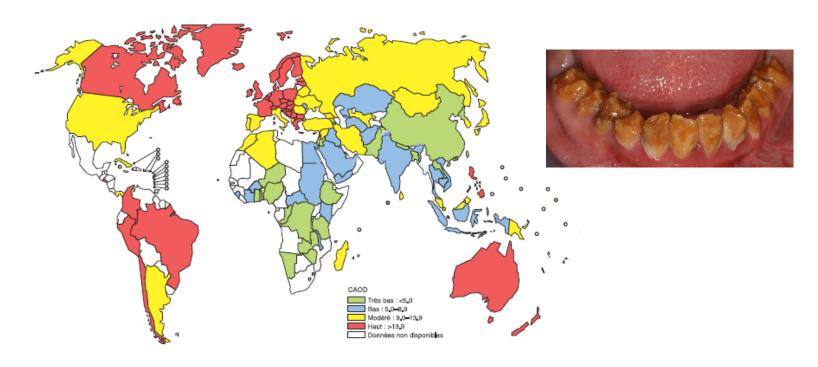






### Pleading 1: an underestimated socio-medical-economic dimension

## DDS (Dental Diseases): Part of the Global Burst of Diseases



Worldwide : **3.5 billions people** - Untreated - Fragile populations

Worldwide economic impact : **US\$442 billions** (2010)

Altered Quality of Life: pain, affected mastication, phonation, psycho-social life ...

Co-Morbidity with obesity, diabetes, cardiovascular diseases ...

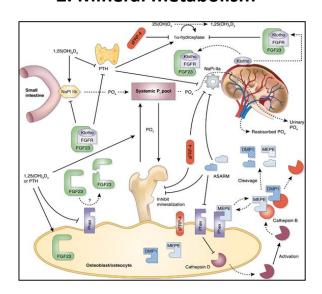
#### **Individual Resistance to DDS?**

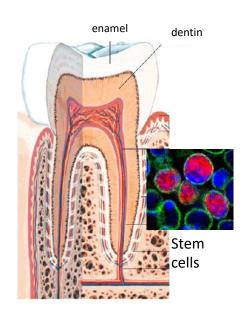


## Pleading 2: our subjects, dent-gene-environment, are of excellence

## DDS Shared Mechanisms and individual disease susceptibility

#### 2. Mineral metabolism

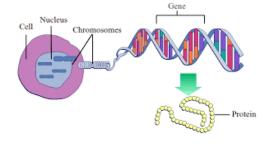


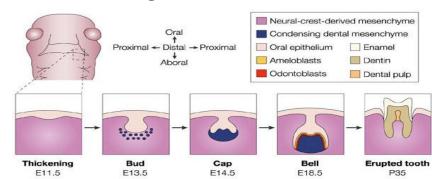


#### 3. Environmental challenges



#### 1. Constitutive genes - mutations - variants





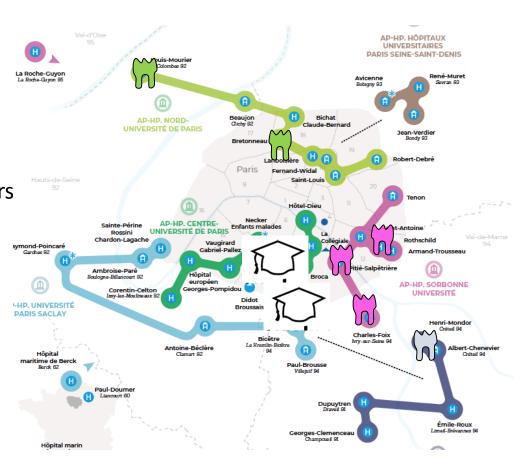
## We discussed the context and today's geography

#### **Dental Research**



4 constitutive-labs2 core-platforms160 research members

Faculties in 21 outside labs



#### **Dental Education**



2 Schools 1000 graduates 1000 postgraduates Masters/PhDs 220 staff

Dental Hospital



6 Clinical services

## A Top 1% European Dental Institute



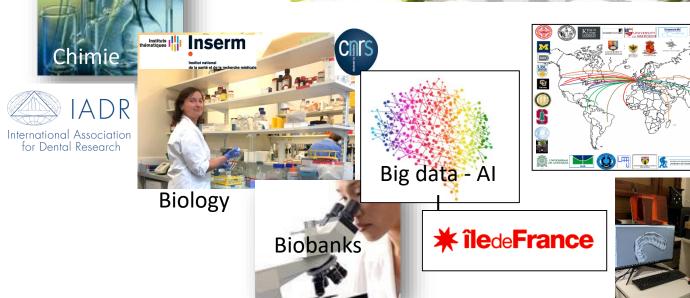




tal data

Simulation







Carrying out scientific projects

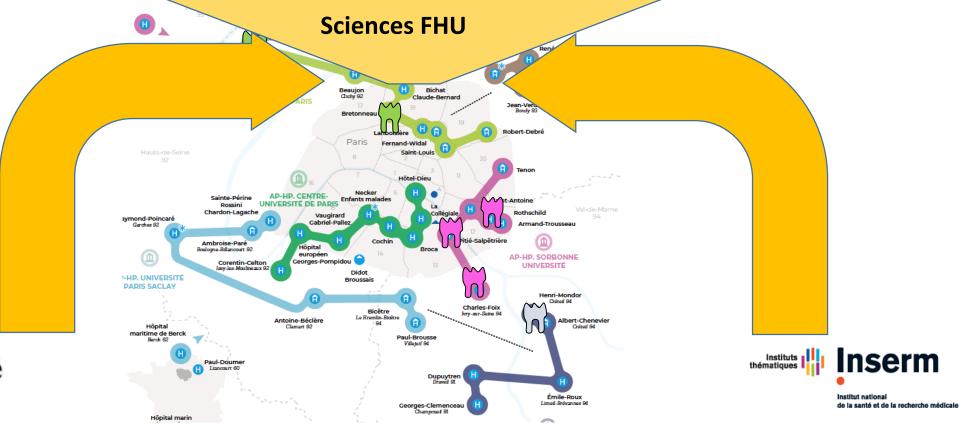














## DDS-ParisNet FHU Specific Objectives

- ✓ Constitute Cohorts: Rare and common DDS
- ✓ Explore Pathophysiology: Molecular cellular mechanisms of DDS
- ✓ Implement Therapy: « Toxic-free » devices and innovations for DDS
- ✓ Establish Clinical paths: Diagnosis and cares for patients with DDS
- **✓ Develop societal networks:** Patients associations, institutions, industries
- **✓ Disseminate:** the Generated knowledge









## Fédération Hospitalo-Universitaire AP-HP, Université de Paris

**DDS-ParisNet: Dental Diseases Network in Paris** 

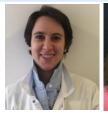


**WP** management:

**Ariane Berdal and Catherine Chaussain** 



WP1 Creating a DDS network centered on the patient DE LADURE MOLLA M, KOZYRAKI R, GAUCHER C, CHAUSSAIN C







WP2 Generating translational research on tooth genomics and pathophysiology.

BABAJKO S. BARDET C. DURSUN E.







WP3 Ensuring clinical translation for diagnosis and treatment of DDS FOURNIER B, LE NORCY E, BIOSSE DUPLAN M, VIPHANE B, BOUKPESSI T.



WP4 Ensuring registries and guidelines, education and dissemination

FRIEDLANDER L,SMAIL-FAUGERON V,GOGLY
B, LESCAILLE G.







Cohorts Biobanks Labs Core



Septodont Company
Gilles Richard / Anne Salengro



((() RVRH<sup>XLH</sup> **DELIVERIES** 



**Patient-centred projects** 

#### **Proposed SAB:**

Marc McKee (McGill, Canada)
Laurence Vicot (Inserm, St Etienne)
Peter Fratzl (Max Plank, Germany)

Catherine Boileau (Inserm, Paris)

Olivier Duverger (National Institute of Health -USA)

Anne Huyssuene (Ghent University)



Patients associations
Pol Harvengt

