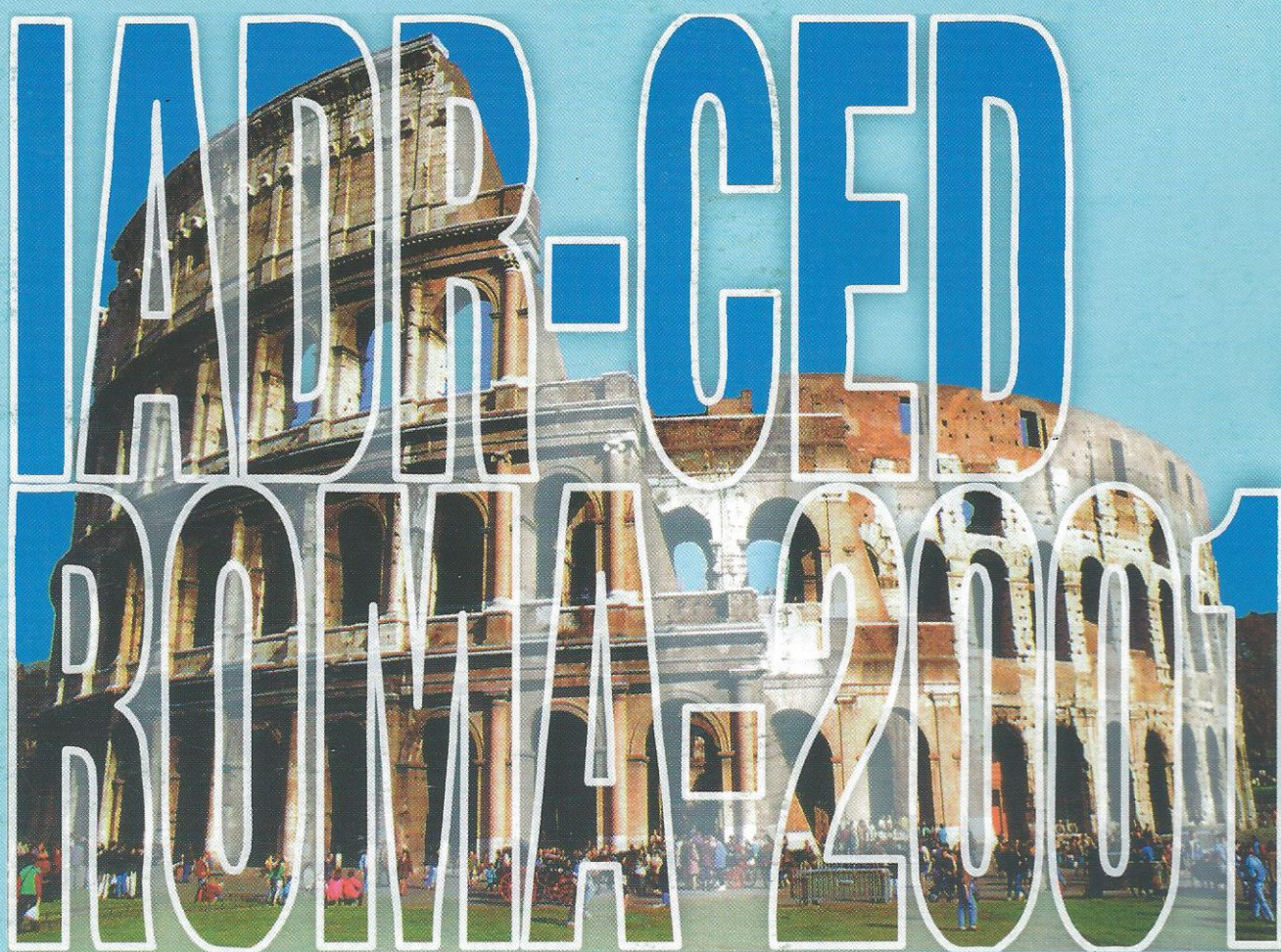


37TH Annual Meeting of the Continental
European Division of the International
Association for Dental Research

5-8 SEPTEMBER 2001, ROME, ITALY



PROGRAMME

- 171 Electrolyte and protein secretion in cystic fibrosis saliva.
*F. Vernet**, *J. Carrere*, *P. Tramini*, *C. Figarella*, *M. D. Merten*
Dental Univ of Montpellier. G.R.G.E., Medicine Univ. Marseille
- 172 Blood Flow of Submandibular Gland: Role of AngiotensinII and NO.
*B. Kerémi**, *J. Vág*, *CS. Hably*, *Á. Fazekas*
Semmelweis University, Department of Conservative Dentistry, Budapest, Ungary
- 173 The detection in human saliva of small peptides deriving from histatin-1 and histatin-3.
*M. Patamia**, *M. Castagnola*, *A. Lupi*, *B. Giardina*, *M. E. Schinina*, *L. Cassiano*, *S. Tambaro*, *M. Cordaro*,
G. Onnis, *I. Manca*, *G. Gambarini*, *I. Messina*
Univ. Cattolica, Rome; CNR-Rome; Univ. "La Sapienza", Rome; Univ. di Cagliari
- 174 The concentration of defensin-1 in human saliva.
*A. Lupi**, *M. B. Fadda*, *I. Messina*, *V. Soro*, *S. Tambaro*, *V. Piras*, *G. Denotti*,
G. Gambarini, *C. Zuppi*, *M. Patamia*, *B. Giardina*, *M. Castagnola*
Univ. di Cagliari; CNR-Rome; Univ. "La Sapienza" and Univ. Cattolica - Rome
- 175 Analysis of several proteins of human saliva by micellar electrokinetic capillary chromatography.
*A. Vitali**, *I. Messina*, *M. Castagnola*, *C. Zuppi*, *T. Cabras*, *R. Murtas*, *D. Congiu*, *G. Gambarini*, *F. Misiti*,
D.V. Rossetti, *A. Lupi*, *M.B. Fadda*
Univ. di Cagliari, CNR, Rome; Univ. Cattolica, Rome; Univ. "La Sapienza", Rome
- 176 Proteomic of human saliva by MALDI-TOF analysis: the detection of salivary protein components.
*M. Castagnola**, *M. E. Schinina*, *I. Messina*, *I. Manca*, *G. Onnis*, *M. Cordaro*, *G. Denotti*, *F. Vincenzoni*,
A. Vitali, *T. Cabras*, *V. Piras*, *A. Lupi*
Univ. "La Sapienza", Rome; Univ. di Cagliari; Univ. Cattolica, Rome; CNR-Rome
- 177 Effect of chewing gum on salivary composition.
*V. S. Trotskaya**
Belarusian State Medical University, Minsk, Republic of Belarus
- 178 Salivary Sialic acid and Protein Concentrations of Edentulous Patients.
*F. Unalan**, *Y. Guven*, *E. Uslu*, *S. Sarioglu*, *S. Ozel*
Uni. of Istanbul, Faculty of Dentistry, Istanbul
- 179 Relationship Between Dental Anxiety and Salivary Flow Rate.
*D. Erdilek**, *Y. Gomec*, *E. Yildiz*, *C. Dorter*, *N. Turan*
Dept. of Conservative Dentistry & Dept. of Biostatistics, Univ. of Istanbul, Istanbul, Turkey
- 180 Adhesion of fibrinogen studied by AFM force spectroscopy.
*C. Gergely**, *P. Schaaf*, *J.-C. Voegel*, *B. Senger*, *J. Hemmerle*
INSERM U 424, ULP Strasbourg, Inst. Ch. Sadron, CNRS, Strasbourg
- 181 Salivary polymorphonuclear neutrophils in babies and adults with or without teeth.
*I. Bouchlariotou**, *A.-F. Baudson*, *N. Dourov*, *M. Brex*

6.00 P.M. **OPENING CEREMONY**

ROBERT FRANK DISTINGUISHED LECTURE

WELCOME RECEPTION

2/2

**2001 CONTINENTAL EUROPEAN DIVISION
ABSTRACT FORM - ROME**

Mail form to: Congress Secretariat CED Meeting
Prex srl Viale XXI Aprile 38/b - 00162 Rome - Italy

FAX COPIES WILL BE REFUSED

Type perfect original of abstract here:

Deadline for submission: April 15th, 2001

ELECTROLYTE AND PROTEIN SECRETION IN CYSTIC FIBROSIS SALIVA

F. Vernet^{1*}, J. Carrere², P. Tramini¹, C. Figarella² and M.D. Merten².

(1, Dental University of Montpellier, France, 2, G.R.G.E., Faculté de Médecine, Marseille, France.)

CF is characterized by a general defect in exocrine secretion and studies of salivary secretion can be used as a non-invasive model of examination of relatively large volumes of affected exocrine glands. Since the secretory leucocyte proteinase inhibitor (SLPI) is a specific protein marker of serous secretion implicated in salivary antibacterial, antiviral and antifungal defense, we measured its concentration as well as the electrolyte and protein contents of total saliva from normal and CF individuals under resting conditions and during masticatory stimulation.

Methods: total saliva from 22 control (4-15 years old) and 13 CF (3-17 years old) were collected under resting conditions for 5 min and after chewing a piece of PARAFILM® (used for saliva stimulation) for 2 min. SLPI was assayed by ELISA and electrolytes, total proteins, and amylase were measured with classical techniques.

Results: SLPI concentration was showed to be significantly decreased in CF saliva after stimulation compared to control subjects whereas no difference in amylase stimulated secretion was observed between normal and CF. As already reported in the literature, our data showed that chloride concentration was higher in CF saliva than in control under resting conditions. Nevertheless chloride concentration does not show any differences in stimulated conditions between control and CF saliva. Our results of sodium and calcium concentration are also similar to those reported elsewhere.

Statistical analysis: Differences between stimulated and resting values were assessed by Student's *t*-test.

Conclusion: Our results suggest a specific regulatory defect of SLPI secretion in CF salivary glands in vivo, likely to be directly related to the genetic defect. This observation rises the questions of mechanism of this specific secretory defect, the possible implication in oropharyngeal microbial contamination and gives the possibility of using saliva as a model to investigate the effect of new drug therapies.

Supported by "Vaincre la Mucoviscidose".

Presenter Information:

Type or print legibly in black or blue ink.

1. Complete name and mailing address of the PRESENTER.
All correspondence will be mailed to this address.

Name: VERNET FAMILIE

Univ./Co.: FACULTE

D'ODONTOLOGIE MONTPELLIER

Dept.: 39

Street Address: 51, AVENUE

DE LODÈVE

City: MONTPELLIER

State/Country: FRANCE

ZIP/Postal Code: 34070

E-mail: VERNETFAG@OOP.COM

2. Daytime Phone Number (include area code):

04.67.03.39.79

5. Area of Review (check only one):

- 1) Behavioral Sciences/Health Services Research
- 2) Behavioral Sciences/Epidemiological Methods
- 3) Cariology Research
- 4) Craniofacial Biology: I—Molecular
- 5) Craniofacial Biology: II—Other Studies
- 6) Dental Materials: I—Adhesion
- 7) Dental Materials: II—Ceramics & Composites
- 8) Dental Materials: III—Clinical Trials
- 9) Dental Materials: IV—Composite Band Strength
- 10) Dental Materials: V—Polymer Materials
- 11) Dental Materials: VI—Other—Metallic
- 12) Dental Materials: VII—Other—Non-metallic
- 13) Diagnostic Systems
- 14) Educational Research
- 15) Experimental Pathology
- 16) Geriatric Oral Research
- 17) Implantology Research
- 18) Microbiology/Immunology & Infection Control
- 19) Mineralized Tissue
- 20) Neuroscience/TMJ
- 21) Nutrition
- 22) Oral & Dental Hygiene
- 23) Oral & Maxillofacial Surgery
- 24) Periodontal Research—Diagnosis/Epidemiology
- 25) Periodontal Research—Pathogenesis
- 26) Periodontal Research—Therapy
- 27) Pharmacology, Therapeutics, & Toxicology
- 28) Prosthodontics Research
- 29) Pulp Biology
- 30) Salivary Research

6. Mode of Presentation Preferred (check only one):

- 1) Oral Presentation
- 2) Poster Presentation
- 3) No Preference

8. Are you interested in being a session chair?
(Must be a CED member.)

- 1) yes
- 2) no

9. List five descriptors by number (see reverse side).
If existing descriptors do not fit your research, then write one new word under "Other".

- 1) 184
- 2) 517
- 3) 285
- 4) 324
- 5) 352 (write numbers)

Other: Cystic F. Fibrosis

10. Are you applying for CED Robert Frank yes

(Check only if you meet the eligibility requirements listed in the instruction booklet)

Category

- Junior Senior Postdoctoral

List cooperating instructor's name:

11. I have proofread this abstract and understand the obligation of submission.

(Presenter's Signature)

[Handwritten Signature]