Red fluorescent dental plaque: An indicator of oral disease?

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Author contributions
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Chapter 2 - Effect of metalloporphyrins on red autofluorescence from oral bacteria
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Published in the European Journal of Oral Sciences (2013)
Author contributions
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Performed the study: CMCV, MHvdV
Analysed the data: CMCV, MHvdV
Drafted the manuscript: CMCV, MHvdV, JMtC
Critically revised the manuscript: JJdS

Chapter 3 - Red fluorescent biofilm: the thick, the old and the cariogenic
C.M.C. Volgenant, M.A. Hoogenkamp, M.J. Buijs, E. Zaura, J.M. ten Cate, M.H. van der Veen
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Performed the study: CMCV, MAH, MHvdV, MJB
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Chapter 4 - Red and green fluorescence from oral biofilms
C.M.C. Volgenant, M.A. Hoogenkamp, B.P. Krom, M.M. Janus, J. M. ten Cate, J.J. de Soet, W. Crielaard, M. H. van der Veen
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Chapter 5 - Comparison of red autofluorescing plaque and disclosed plaque
- a cross-sectional study
C.M.C. Volgenant, M. Fernandez y Mostajo, N.A.M. Rosema, G.A. Van der Weijden,
J.M. ten Cate, M.H. van der Veen
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Chapter 6 - Dynamics of red fluorescent dental plaque during experimental gingivitis
- a cohort study
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Chapter 7 - Salivary microbiome composition and red fluorescent dental plaque of children and their parents
C.M.C. Volgenant, B.W. Brandt, M.J. Buijs, D. Duijster, C. van Loveren, J.M. ten Cate, M.H. van der Veen, E. Zaura

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Analysed the data: CMCV, BWB, EZ
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Chapter 8 - Red fluorescence of dental plaque in children – a cross-sectional study
C.M.C. Volgenant, E. Zaura, B.W. Brandt, M.J. Buijs, M. Tellez, G. Malik, A.I. Ismail, J.M. ten Cate, M.H. van der Veen

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Peer reviewed international publications


Submitted manuscripts


Janus MM, Crielaard W, Volgenant CMC, Van der Veen MH, Brandt BW, Krom BP: Candida albicans has a community wide effect on initial in vitro oral biofilms.

Other publications


List of publications


(Co-)author of abstracts at scientific conferences

ORCA 2011, Kaunas, Lithuania
Red fluorescence of dental plaque from dental students.

IADR 2012, Iguazu, Brazil
Medium additives determine the autofluorescence of in vitro biofilm; Visual comparison of red fluorescing plaque and disclosed plaque on photos.

ORCA 2012, Cabo Frio, Brazil
Biofilm age and thickness determines the amount of red fluorescence; Visual detection of caries lesions on oral white light and fluorescence photographs.

ORCA 2013, Liverpool, United Kingdom
Caries assessment of occlusal surfaces on QLF- and white light photographs.

KNVM-NVMM conference, Papendal, the Netherlands
Methicillin resistant Staphylococcus aureus in dental students.

ORCA 2015, Brussels, Belgium

OMIG 2016, Gregynog Hall, Wales, United Kingdom
Red fluorescence from in vivo and in vitro oral biofilm – the effect of different donors.

ORCA 2016, Athens, Greece
Dental caries status of institutionalized young adults with mild mental disability and multi-problems – first results; The motivational effect of fluorescence photographs additional to oral hygiene lessons at primary schools.
Invitation to attend the public defense of the PhD thesis

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An indicator of oral disease?

by Catherine Volgenant

on Friday, September 30, 2016 at 13:00 hrs,
Aula of the University of Amsterdam,
Oude Lutherse Kerk, Singel 411, Amsterdam.

You are cordially invited to the reception after the defense at Café Luxembourg (across the street)

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