

# DENTISTRY AND MAXILLOFACIAL SURGERY

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## CGRP in the temporomandibular joint and muscular inflammation

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To evaluate the effects of different kinds of adjuvants such as freunds adjuvant carrageenan oil on experimentally induced arthritis. The outcome of the different stimuli was always an increase in sensory neuropeptides such as calcitonin gene-related peptide and substance P. Other peptides that are increased are neurokinin A from the Sympathetic nervous system neuropeptide Y is increased and from the Parasympathetic nerves Vaso intestinal polypeptide.

### Recent Publications:

1. Corticotropin releasing factor in urine--a possible biochemical marker of fibromyalgia. Responses to massage and guided relaxation. Lund I, Lundeberg T, Carleson J, Sönnnerfors H, Uhrlin B, Svensson E. *Neurosci Lett.* 2006 Jul 31;403(1-2):166-71. doi: 10.1016/j.neulet.2006.04.038. Epub 2006 May 22. PMID: 16716515 Clinical Trial.
2. Muscle and brain changes of calcitonin gene-related peptide in experimentally induced unilateral rat masseter myositis. Carleson J, Lundeberg T, Appelgren B. *J Orofac Pain.* 2004 Summer;18(3):246-52. PMID: 15509004
3. A model for the study of experimentally induced temporomandibular arthritis in rats: the effect of human recombinant interleukin-1 alpha on neuropeptide-like immunoreactivity. Carleson J, Alstergren P, Appelgren A, Appelgren B, Kopp S, Theodorsson E, Lundeberg T. *J Orofac Pain.* 1996 Winter;10(1):9-14. PMID: 8995911.

### Biography

Joakim has been a dentist since 1997 and did his PhD in 2001. His dissertation was at the Karolniska Institutet. From 1994 until 2008 he published 11 articles in the area of dentistry and physiology. The major interest of research is integrative medicine with the interaction between the nervous, humoral and immune system.

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