

CLINICAL ORTHOPAEDIC SURGERY

Vol. 48

No. 12

DECEMBER 2013

Editor in Chief Shin-ichi KIKUCHI

Editorial Board

Fuminori KANAYA, Masahiro KUROSAKA, Kenji TAKAGISHI

Hiroyuki TSUCHIYA, Yoshiaki TOYAMA, Masatoshi NAITO

Hideki YOSHIKAWA

CONTENTS

Symposium **The Prospects of Causal Treatment of Chronic Pain**

Preface *Toshihiko YAMASHITA* • 1168

Cellular Mechanisms of Chronic Pain and Analgesia Through the Activation of P2X Receptors
..... *Wataru TANIGUCHI, et al* • 1169

Involvement of TRP Channels (TRPV1, TRPA1) in Chronic Pain and Their Implication as
Targets for Pain Treatment *Makoto TOMINAGA* • 1175

Metallothionein Suppresses the Development of a Neuropathic Pain. Proteomics Analysis
with the Peripheral Nerves of Complex Regional Pain Syndrome(CRPS)
..... *Gosuke OKI, et al* • 1179

Involvement of Glial Cells in Chronic Pain and Their Potentials for Therapeutic Targets
..... *Makoto TSUDA, et al* • 1185

Efficacy of Administration of Cytokine Inhibitors for Low Back Pain... *Seiji OHTORI, et al* • 1191

Pharmacologic Management of Neuropathic Pain *Shinsuke INOUE, et al* • 1199

In-situ Tissue Engineering for the Treatment of Neurogenic Pain *Yuji INADA, et al* • 1205

Lecture

Depression in Rheumatoid Arthritis *Masao YUKIOKA* • 1209

Clinical Experience

Evaluation of Surgical Results for Chronic Discogenic Low Back Pain by Japanese
Orthopaedic Association Back Pain Evaluation Questionnaire (JOABPEQ)
..... *Osamu NEMOTO, et al* • 1229

Case Reports

Tibiocalcaneal Fusion for Charcot Ankle after Severe Talar Body Bone Loss
..... *Takao AIKAWA, et al* • 1235

Neck Fracture of an Anatomic Medullary Locking Plus Stem. Case Report
..... *Tomonori MISAKI, et al* • 1241

Difficult Diagnosis of Bilateral First Metatarsophalangeal Joint Arthralgia in
Type 1 Diabetes Mellitus. Case Report *Koichi MORI* • 1247

IGAKU-SHOIN Ltd.

1-28-23 Hongo, Bunkyo-ku, Tokyo, 113-8719 Japan