International Medical Devices Conference and Expo (IMD 2020)

Online 23 – 24 September 2020

Editors:

M Nasim Uddin Rafiq Uddin

ISBN: 978-1-7138-2035-2

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2020) by Global Automotive Management Council (GAMC) All rights reserved.

Printed with permission by Curran Associates, Inc. (2021)

For permission requests, please contact Global Automotive Management Council (GAMC) at the address below.

Global Automotive Management Council (GAMC) 5340 Plymouth Road, Suite 205 Ann Arbor, Michigan, USA 48105

Phone: (734) 997-9249 Fax: (734) 786-2242

samanthaj@gamcinc.com

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400

Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

TABLE OF CONTENTS

DEVELOPING AN EFFECTIVE PRECLINICAL RESEARCH STRATEGY: FROM BENCH- TOP TO FIM	1
LASERS IN MEDICAL DEVICE MANUFACTURING: APPLICATION AND LASER SOURCES	22
M. Boyle BUDGET IMPACT ANALYSIS (BIA) FOR REUSABLE DEVICES: CATHETERS	41
PREPARATION OF NANOFIBER SCAFFOLD VIA ELECTROSPINNING TECHNIQUE FOR BONE TISSUE ENGINEERING	46
THE USE OF TOPICAL INSULIN / ORC COLLAGEN IN THE TREATMENT OF DIABETIC FOOT ULCERS	61
NITRIC OXIDE IN THE TREATMENT OF WOUNDS	74
UNDERSTANDING BIODEVICE MECHANICS AND THE SURROUNDING BIOMECHANICS	101

Author Index