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Titolo	Colorectal Surgery [[electronic resource]] : Clinical Care and Management
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ISBN	1-118-67477-4
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Altri autori (Persone)	GuyRichard JonesOliver VogelJon
Disciplina	617.5/547
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Title Page; Copyright; Table of Contents; List of contributors; Foreword; Section A: Colorectal cancer; Incidence; Pathogenesis; Risk factors for colorectal cancer; Pathology; Clinical presentation; Investigation of colorectal cancer; Decision making: the multidisciplinary team (MDT); Surgical treatment; Postoperative management; Other tumors; References; Case 1: A screen-detected colonic conundrum; Could we have done better?; Case 2: Serrated Pathways; Could we have done better?; Reference; Case 3: Large tubulovillous adenoma of the rectum treated by TEM; Could we have done better? ReferenceCase 4: To stent or not to stent?; Could we have done better?; Case 5: Advanced rectal cancer: Brazil or Japan?; Case 6: Marginal decisions; Could we have done better?; Case 7: Locally advanced rectal cancer invading prostate; Could we have done better?; Reference; Case 8: Low rectal cancer and synchronous polyps; Could we have done better?; Case 9: Liver or rectum first?; Could we have done better?; Case 10: Beware bad livers!; Could we have done better?; Reference; Case 11: Anastomotic recurrence?; Could we have done better?; Case 12: Challenging warts; Could we have done better? Case 13: An unusual right iliac fossa massCould we have done better?; Section B: Inflammatory bowel disease; Introduction; Crohn's disease; Ulcerative colitis; References; Case 14: A problem teenager; Case 15: Recurrent Crohn's disease with intraabdominal abscess: when to

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Collana	IFMBE Proceedings, , 1433-9277 ; ; 53
Disciplina	610.28
Soggetti	Biomedical engineering Microbiology - Technique Cytology Food - Microbiology Biophysics Pharmaceutical chemistry Biomedical Engineering and Bioengineering Microbiology Techniques Cell Biology Food Microbiology Pharmaceutics
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Nota di contenuto	Preface; Satellite Events Incorporated in WC2015; Committees; Sponsors; Table of Contents; Invited Plenary Lectures; About the First Industrial Scale PEF - Plants and Heinz Doevenspeck'sRole - A Historical Review; I. INTRODUCTION; II. DOEVENSPECK`S PROJECTSFROM 1958 UNTIL 1983; III. COOPERATION DOEVENSPECK- KRUPP UNTIL 1993; Harnessing the Structure Modifying Potential of Pulsed ElectricFields (PEF) - Food Processing Examples in Product Stabilization,Process Acceleration and Compound Extraction; I. INTRODUCTION; II. CASE STUDY 1: PEFIN HURDLE PRESERVATION III. CASE STUDY 2: PEF IN SPOREINACTIVATIONIV. CASE STUDY 3: PEF IN

HYDROLYSISTERMINATION; V. CASE STUDY 4: PEF IN WASTEVALORISATION; VI. CASE STUDY 5: PEFIN MEAT TENDERISATION; VII. CASE STUDY 6: PEF IN MEAT CURING; VIII. CONCLUSIONS; Fundamental and Applied Aspects of Pulsed Electric Fieldsfor Microbial Inactivation; I. INTRODUCTION; II. BASICS PRINCIPLES OF MICROBIALINACTIVATION BY PULSED ELECTRIC FIELDS; III. FACTORS AFFECTING MICROBIALINACTIVATION BY PULSED ELECTRIC FIELDS; IV. FOOD PRESERVATION BY PULSEDELECTRIC FIELDS
How Imaging Molecule Uptake into Cells can Reveal the Mechanismsof Membrane ElectropermeabilizationI. INTRODUCTION; II. MECHANISMS OF MEMBRANEELECTROPERMEABILIZATION AND DNA TRANSFER INTO CELLS.; III. LIPID VESICLES AND 3D CELL CULTURESAS OTHER MODELS TO STUDYELECTROPERMEABILIZATION; IV. CONCLUSIONS; Tissue Reactions to Electroporation and Electrochemotherapy: Vascular Effects that have Implications in Tumor Treatment; I. INTRODUCTION; II. VASCULAR EFFECTS OF ELECTROPORATION; III. VASCULAR EFFECTS OF ELECTROCHEMOTHERAPY; IV. CLINICAL OBSERVATIONS AND IMPLICATIONS; V. CONCLUSIONS
Nanosecond Pulses and Beyond - Towards Antenna Applications I. INTRODUCTION; II. NANOSECOND PULSED ELECTRIC FIELD EFFECTS; III. FROM NANOSECOND TOPICO SECOND PULSES; IV. PICO SECOND PULSE GENERATORS; V. BIOELECTRIC EFFECTS OF PICO SECOND PULSED ELECTRIC FIELDS (PSPEF); VI. FROM INVASIVE PULSE DELIVERY SYSTEMS TO ANTENNAS ; VII. CONCLUSION; Optimal Irreversible Electroporation Techniques in the Treatment of LocallyAdvanced Liver and Pancreatic Cancer; I. INTRODUCTION; II. LOCAL TISSUE FACTORS THAT AFFECT IRE; III. TECHNIQUE OF PERFORMING IRE IN LIVERFOR TUMORS WITH VASCULAR PROXIMITY
IV. CLINICAL RESULTS OF IRREVERSIBLE ELECTROPORATION FOR HEPATIC MALIGNANCIES Electrotransfer of Antiangiogenic shRNA against Endoglinfor Effective Cancer Treatment; I. VASCULAR TARGETED THERAPIES; II. ENDOGLIN; III. SiRNA AGAINST ENDOGLIN; IV. VASCULAR TARGETED EFFECTS OF shRNAAGAINST ENDOGLIN; V. ANTITUMOR AND ANTIMETASTATICEFFECTS OF shRNA AGAINST ENDOGLIN; VI. COMPLIANCE WITH ETHICAL REQUIREMENTS; VII. CONCLUSIONS; Abiotic Gene Transfer - A Rarity or a Ubiquity?; I. INTRODUCTION; II. DO THE THREE BIOTIC HGT MECHANISMSSUFFICE?; III. LABORATORY HGT TECHNIQUES ARE ALLABIOTIC
IV. ABIOTIC HGT MECHANISMS IN NATURE?

Sommario/riassunto

This volume presents the proceedings of the 1st World Congress on Electroporation and Pulsed Electric Fields in Biology, Medicine and Food & Environmental Technologies (WC2015). The congress took place in Portorož, Slovenia, during the week of September 6th to 10th, 2015. The scientific part of the Congress covered different aspects of electroporation and related technologies and included the following main topics: · Application of pulsed electric fields technology in food: challenges and opportunities · Electrical impedance measurement for assessment of electroporation yield · Electrochemistry and electroporation · Electroporation meets electrostimulation · Electrotechnologies for food and biomass treatment · Food and biotechnology applications · In vitro electroporation - basic mechanisms · Interfacial behaviour of lipid-assemblies, membranes and cells in electric fields · Irreversible electroporation in clinical use · Medical applications: electrochemotherapy · Medical applications: gene therapy · Non-electric field-based physical methods inducing cell poration and enhanced molecule transfer · Non-thermal plasmas for food safety, environmental applications and medical treatments

· PEF for the food industry: fundamentals and applications
· PEF proce ss integration - complex process chains and process combinations in the food industry · Predictable animal models
· Pulsed electric fields and electroporation technologies in bioeconomy · Veterinary medical applications.