

Volume 59 Number 3, 2018

(new series)

ROMANIAN JOURNAL

OF

MORPHOLOGY AND EMBRYOLOGY



ROMANIAN ACADEMY PUBLISHING HOUSE

© 2018 ROMANIAN ACADEMY PUBLISHING HOUSE. All rights reserved.

ROMANIAN ACADEMY PUBLISHING HOUSE protects this journal, and the individual contributions contained in it under copyright, in the following terms and conditions apply to their use:

Photocopying

Single photocopies of single articles may be made for personal use as allowed by national copyright laws. Permission of the publisher and payment of a fee is required for all other photocopying, including multiple or systematic copying, copying for advertising or promotional purposes, resale, and all forms of document delivery. Special rates are available for educational institutions that wish to make photocopies for non-profit educational use. Permissions may be sought directly from EDITOR, at the following address: *Romanian Society of Morphology, Research Center for Microscopic Morphology and Immunology, University of Medicine and Pharmacy of Craiova, 2 Petru Rareș Street, 200349 Craiova, Romania; Phone/Fax +40351–461 458, e-mails: editor@rjme.ro, rjmorphembryol@yahoo.com*.

Derivative works

Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. Permission of the PUBLISHER is required for resale or distribution outside the institution, and for all other derivative works, including compilations and translations.

Electronic storage or usage

Permission of the EDITOR is required to store or use electronically any material contained in this journal, including any article or part of an article. Contact the EDITOR at the address indicated. Except as outlined above, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the EDITOR. Address permissions requests to: *Romanian Society of Morphology, Research Center for Microscopic Morphology and Immunology, University of Medicine and Pharmacy of Craiova, Romania*, at the mail, fax and e-mail addresses noted above.

Copyright transfer

Articles and any other material published in the *Romanian Journal of Morphology and Embryology* represent the opinions of the author(s) and should not be construed to reflect the opinions of the EDITOR and the PUBLISHER. Submission of an article implies that the work described has not been published previously (except in the form of an abstract or as a part of a published lecture or academic thesis), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, without the written consent of the PUBLISHER. Contributions are accepted on the understanding that the authors have obtained the necessary authority for publication. Submission of multi-authored manuscripts implies the consent of each of the authors. The PUBLISHER will assume that the senior or corresponding author has specifically obtained the approval of all other co-authors to submit the article to this journal.

The ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY

(<http://www.rjme.ro/>)

is abstracted by / indexed in:



2017 *Journal Citation Reports Science Edition*
(Clarivate Analytics, available June 26, 2018):

- Impact Factor: 0.912;
- 5-Year Impact Factor: 0.904;
- Article Influence Score: 0.137.

Web of Science – Science Citation Index Expanded

< <http://scientific.thomsonreuters.com/cgi-bin/jrnlist/jlresults.cgi?PC=MASTER&ISSN=1220-0522> >



A service of the National Library of Medicine
and the National Institutes of Health
www.ncbi.nlm.nih.gov/nlmcatalog/9112454



< https://www.elsevier.com/_data/assets/excel_doc/0005/188807/Embase-Journal-List-overview_2018May.xlsx >



SCImago
Journal & Country
Rank

< <http://www.scimagojr.com/journalsearch.php?q=83472&tip=sid&clean=0> >



< https://www.researchgate.net/journal/1220-0522_Romanian_journal_of_morphology_and_embryology
Revue roumaine de morphologie et embryologie >



< <https://uefiscsi.ro/resource-84889?&wtok=c8e7e097fead3709a9076f4638c1f90c3e5fbe1&wtkps=XY9RDolwEETvst9Su6WFstzBmHgC0o12FesoSILx7qJ+GP2bzM6bzVSUOTSlpjH1kcoHWGuuZRSJFSSquqbKocENpYJXpvenWrprGrvI9LUFmbLEuiY4JxmPOI2OJI4OBTqli7kxNY29/PI2Oac6GF5kpvB7Fmv84BJeqUC675TqmdOv0xyNfen6BYB9T7xV1wU6+ZmG4sqluXDTWsYerZ1YNozPBQ/I6Aw==&wchk=0e66e839299300c8cd394ea9a084fd1f06b432b> >

**ROMANIAN JOURNAL
OF
MORPHOLOGY AND EMBRYOLOGY**
(Journal of the Romanian Society of Morphology)

Volume 59 Number 3, 2018, pp. 649–1014
(new series)

CONTENTS

REVIEWS

ANA-MARIA ROȘCA, RALUCA TUȚUIANU, IRINA DOMNICA TITORENCU, <i>Mesenchymal stromal cells derived exosomes as tools for chronic wound healing therapy</i>	655
MUGUREL CONSTANTIN RUSU, FLORINEL POP, SORIN HOSTIUC, LIVIA MANTA, NICOLETA MĂRU, MIHAI GRIGORIU, <i>Transdifferentiations and heterogeneity in the stromal niches of uterine leiomyomas</i>	663
ION PĂUN, GABRIEL BECHEANU, ANDREI IONUȚ COSTIN, VLAD DENIS CONSTANTIN, GABRIELA-MARCELINA MIHAI, LUCREȚIU RADU, LARISA IOVAN, FLORE VÂRCUŞ, <i>Aspects regarding nomenclature, classification and pathology of neuroendocrine neoplasms of the digestive system – a review</i>	673
ADINA BIANCA BOȘCA, ALINA SIMONA ȘOVREA, VIOREL MICLĂUȘ, FLAVIA RUXANDA, CARMEN MIHAELA MIHU, CARMEN STANCA MELINCOVICI, ANNE MARIE CONSTANTIN, BIANCA NAUSICA PETRESCU, RADU SEPTIMIU CÂMPIAN, ALINA ELENA PÂRVU, ARANKA ILEA, <i>Diagnostic and therapeutic approaches in oral cavity granulomas based on new data concerning their origin and pathogenesis</i>	679
TIBERIU PAUL NEAGU, MIRELA ȚIGLIȘ, ANDREEA POPESCU, VALENTIN ENACHE, ȘERBAN-ARGHIR POPESCU, IOAN LASCĂR, <i>Clinical, histological and therapeutic modern approach of Ledderhose disease</i>	691
DIANA GHERMAN, CRISTIANA IULIA DUMITRESCU, ANDRA CIOCAN, CARMEN STANCA MELINCOVICI, <i>Histopathological changes in major amputations due to diabetic foot – a review</i>	699

ORIGINAL PAPERS

ALIS LILIANA CARMEN DEMA, SORINA TĂBAN, AURA JURESCU, ADELINA-ROXANA GHEJU, ADRIAN OVIDIU VĂDUVA, CIPRIAN CONSTANTIN DUTĂ, OCTAVIAN FULGER LAZĂR, <i>Paving the way to tumor budding assessment using digital pathology: a pilot study in Timișoara City (Romania)</i>	703
MARIA VIOLETA NOVAC, MIHAELA NICULESCU, MARIA MAGDALENA MANOLEA, ANDA LORENA DJMĂRESCU, DOMINIC GABRIEL ILIESCU, MARIUS BOGDAN NOVAC, LUCIANA TEODORA ROTARU, MANUELA FLORICA STOENESCU, MARIA CARMEN TABACU, ȘTEFANIA TUDORACHE, CRISTINA JANA BUSUIOC, IOANA ANDREEA GHEONEA, <i>Placental findings in pregnancies complicated with IUGR – histopathological and immuno-histochemical analysis</i>	715

ELENA CORINA ANDRIESCU, IRINA-DRAGA CĂRUNTU, SIMONA ELIZA GIUȘCĂ, LUDMILA LOZNEANU, DELIA GABRIELA CIOBANU APOSTOL, <i>Prognostic significance of cell-adhesion molecules in histological variants of papillary thyroid carcinoma</i>	721
MARIAN CĂRĂMIZARU, IANCU EMIL PLEŞEA, LUCIAN PAUL DRAGOMIR, MIHAI RAUL POPESCU, CONSTANTIN DANIEL USCATU, MIRCEA-SEBASTIAN ŞERBĂNESCU, DRAGOŞ OVIDIU ALEXANDRU, TRAIAN MIHAIL COMĂNESCU, <i>Quantitative assessment of morphological changes of dental pulp components of teeth affected by occlusal trauma</i>	729
GHEORGHE BOGDAN HOGEA, JENEL MARIAN PĂTRAŞCU JR., MIHAI ALEXANDRU SĂNDESC, ANA CRISTINA BREDICEAN, LAURA ALEXANDRA NUSSBAUM, LAVINIA MARIA HOGEA, SORINA MARIA DENISA LAITIN, DRAGOŞ ERDELEAN, DANIELA VERONICA CHIRIAC, FLORIN LUCIAN MUNTEAN, SORIN DAN CHIRIAC, <i>The utility of indirect imagistic signs in the diagnosis of anterior cruciate ligament ruptures</i>	741
ADELA CORINA NECHIFOR-BOILĂ, EMŐKE-ANDREA SZÁSZ, FRANÇOISE DESCOTES, NICOLE BERGER, ANCUȚA ELENA ZAHAN, ANDRADA LOGHIN, DELIA MARIA CETERAŞ, ANGELA BORDA, <i>Morphological features predictive for BRAF^{V600E} mutation in papillary thyroid microcarcinomas</i> ...	747
LAURA EMILIA TOADER, GABRIELA-CAMELIA ROŞU, BOGDAN CĂTĂLIN, IONICA PIRICI, ION CRISTIAN GÎLCEAVĂ, VALERIA-CARMEN ALBU, ANCA-MARIA ISTRATE-OFIȚERU, DAFIN-FIOR MUREŞANU, DANIEL PIRICI, <i>Cerebrolysin increases motor recovery and decreases inflammation in a mouse model of autoimmune encephalitis</i>	755
TIBERIU ȘTEFANIȚĂ TENEA-COJAN, ADRIAN MACOVEI, ION PĂUN, ANDREI IONUȚ COSTIN, CLAUDIA-VALENTINA GEORGESCU, CORNELIU CRISTIAN GEORGESCU, IONELA MIHAELA VLADU, CRISTINA GABRIELA ENE, LUCREȚIU RADU, <i>Assessment of hormonal receptor immunoexpression and Her2 status in invasive breast cancer after conservative and radical surgery</i>	763
GEORGIANA XENIA BĂLAN, PETRIȘOR AURELIAN GEAVLETE, DRAGOŞ ADRIAN GEORGESCU, COSMIN VICTOR ENE, CĂTĂLIN ANDREI BULAI, MARIA ALEXANDRA PĂUNESCU, ANDREI NICULAE, ILEANA PERIDE, IOAN LASCĂR, TIBERIU PAUL NEAGU, BOGDAN FLORIN GEAVLETE, <i>Bipolar en bloc tumor resection versus standard monopolar TURBT – which is the best way to go in non-invasive bladder cancer?</i>	773
BOGDAN ANDREI BUMBУ, GHEORGHE ADRIAN BUMBУ, MIHAIL-CLAUDIU BERECHET, VASILE RUS, FLAVIA RUXANDA, VIOREL MICLĂUŞ, RĂZVAN MARIUS VICAŞ, DOINA IULIA ROTARU, MIHAELA MIRELA ZDRÎNCĂ, CAMELIA FLORENTINA CIOBANU, DIANA BERECHET, <i>Osseointegration of zirconium dental implants three months after insertion in rabbit femur. Histopathological study</i>	781
TRAIAN MIHAIL COMĂNESCU, IANCU EMIL PLEŞEA, LUCIAN PAUL DRAGOMIR, MIHAI RAUL POPESCU, RĂZVAN MIHAIL PLEŞEA, CONSTANTIN DANIEL USCATU, MIRCEA-SEBASTIAN ŞERBĂNESCU, MIHAELA-CEZARINA HÎNCU, MARIAN CĂRĂMIZARU, <i>Morphological changes of gums in occlusal trauma</i>	787
ROXANA BUZATU, RIHAM NAGIB, MĂDĂLINA DINCĂ, ANCA SILVIA VÂLCEANU, CAMELIA ALEXANDRINA SZUHANEK, <i>Midpalatal suture morphology and bone density evaluation after orthodontic expansion: a cone-bean computed tomography study in correlation with aesthetic parameters</i>	803
ALEXANDRA CARINA BĂNICĂ, SANDA MIHAELA POPESCU, VERONICA MERCUT, CRISTINA JANA BUSUIOC, ANCA GABRIELA GHEORGHE, DIANA-MARIA TRĂSCĂ, ANCA DANIELA BRĂILA, ALINA IREN MORARU, <i>Histological and immunohistochemical study on the apical granuloma</i>	811
KAMAL CONSTANTIN KAMAL, DRAGOŞ OVIDIU ALEXANDRU, OTILIA CONSTANTINA ROGOVEANU, CAMELIA PĂNUŞ, DIANA KAMAL, DANIELA TEODORA MARIA, MAGDALENA RODICA TRĂISTARU, <i>Immunohistochemical analysis of bone metabolism in osteonecrosis of the femoral head</i>	819
HORAȚIU CRISTIAN MÂNEA, HORAȚIU CONSTANTIN URECHESCU, NICOLAE CONSTANTIN BALICA, MARIUS OCTAVIAN PRICOP, FLAVIA BADERCA, MĂRIOARA POENARU, IOANA DELIA HORHAT, EMILIA MANUELA JIFCU, RALUCA MARIA CLOŞCA, CRISTIAN ANDREI SARĂU, <i>Bisphosphonates-induced osteonecrosis of the jaw – epidemiological, clinical and histopathological aspects</i>	825

VICTOR CĂTĂLIN SFARTI, GHEORGHE BĂLAN JR., ANDREI STEFAN CHIRIAC, CAROL STANCIU, GHEORGHE BĂLAN, DUMITRĂ GAFENCU-ȘAVLOVSCHI, ANCA VICTORIȚA TRIFAN, Endoscopic retrograde cholangiopancreatography (ERCP) in patients with periampullary diverticula	833
ALEX-IOAN SĂLAN, PETRE-COSTIN MĂRĂŞESCU, ADRIAN CAMEN, EDUARD-MIHAI CIUCĂ, MARIUS MATEI, ALMA-MARIA FLORESCU, VLAD PĂDUREANU, CLAUDIU MĂRGĂRITESCU, The prognostic value of CXCR4, α-SMA and WASL in upper lip basal cell carcinomas	839
FLORIAN OBĂDAN, ȘTEFANIA CRĂIȚOIU, HORIA OCTAVIAN MANOLEA, MIHAELA-CEZARINA HÎNCU, MONICA MIHAELA IACOV-CRĂIȚOIU, The evaluation of the morphological evolution of the tissue integration of dental implants through conventional histology and immunohistochemistry techniques	851
GIANFRANCO SEMEZ, RUXANDRA ELENA LUCA, ALBERTO CESCATO, VALENTINA FAORO, DALIANA EMANUELA MOCUȚA, DARINCA CARMEN MARILENA TODEA, Effect of the laser beam on implant site preparation: a preliminary pilot study	861
HORIA TUDOR STANCA, MIHNEA MUNTEANU, DRAGOȘ CĂTĂLIN JIANU, ANDREI GHEORGHE MARIUS MOTOC, BOGDANA TĂBĂCARU, SIMONA STANCA, EMIL UNGUREANU, VERONICA MĂDĂLINA BORUGA, MARIA ALEXANDRA PREDA, New perspectives in the use of laser diode transscleral cyclophotocoagulation. A prospective single center observational cohort study	869
LIANA TODOR, RUXANDRA ILINCA MATEI, GABRIELA MUȚIU, ANCA PORUMB, GABRIELA CIAVOI, EMILIA ALBINIȚA CUC, ADRIANA ȚENT, DANIELA DOMOCOȘ, IOANA SCROBOTĂ, SERGIU ANDREI TODOR, MIHAELA CRISTIANA COROI, Morphological study of upper wisdom tooth	873
ADRIANA ȚENT, LIANA TODOR, GABRIELA CIAVOI, ANA-MARIA POPOVICI-MUȚ, DANIELA DOMOCOȘ, MIHAELA DANA POGAN, LUMINIȚA LIGIA Vaida, ANCA PORUMB, Non-syndromic hypodontia of permanent dentition associated with other dental anomalies in children and adolescents	879
COSTIN TEODOR STREBA, SORIN POPESCU, DANIEL PIRICI, IOANA ANDREEA GHEONEA, MIHAI VLĂDAIA, BOGDAN SILVIU UNGUREANU, DAN IONUȚ GHEONEA, TIBERIU ȘTEFĂNITĂ ȚENEÀ-COJAN, Three-dimensional printing of liver tumors using CT data: proof of concept morphological study ...	885
MARILENA MONICA ȚÂNTU, GEORGE MIHAIL MAN, LILIANA MARCELA ROGOZEÀ, CARMEN DANIELA DOMNARIU, FLORENTINA CRISTINA PLEȘA, DIANA-MARIA TRAŞCĂ, BOGDAN-VIRGIL COTOI, LOREDANA ELENA STOICA, CAMELIA NICOLAE, ROXANA MARIA NEMEŞ, Diabetic foot – epidemiological and histopathological aspects	895

CASE REPORTS

EDME ROXANA MUSTAFA, DIANA RODICA TUDORAȘCU, ALINA GIUCĂ, DESPINA-MANUELA TOADER, MARIA CAMELIA FOARFĂ, ILEANA PUIU, ANCA-MARIA ISTRATE-OFITERU, A rare cause of ischemic stroke: cardiac myxoma. Case report and review of literature	903
CAMELIA ALBU, ADELINA STAICU, ROXANA TANIA POPA-STĂNILĂ, ALINA CAMELIA MILAȘ, LIVIU BOGDAN CHIRIAC, TÜNDE ELISABETA KOVÁCS, VASILE FLORIN STAMATIAN, Multidisciplinary approach of assessing malformed fetuses exemplified in a rare case of pentology of Cantrell associated with craniorachischisis, pulmonary extrophy and right-sided aortic arch with aberrant brachiocephalic artery	911
EDUARD MIHAI CIUCĂ, ALEX-IOAN SĂLAN, ADRIAN CAMEN, MARIUS MATEI, CĂLIN-GABRIEL ȘARLĂ, CLAUDIU MĂRGĂRITESCU, A patient with pilomatricoma in the parotid region: case report and review of the literature	917
RĂZVAN ENE, ZSOMBOR ALPAR PANTI, MIHAI NICĂ, MIHNEA GABRIEL POPA, MONICA MIHAELA CÎRSTOIU, OCTAVIAN MUNTEANU, SORIN LIVIU VASILESCU, GEORGE SIMION, ALEXANDRU VASILESCU, DRAGOȘ-VIRGIL DAVIȚOIU, FLORIN CĂTĂLIN CÎRSTOIU, Chondrosarcoma of the pelvis – case report	927
FLORIN DANIEL CĂLIN, DIANA GHEORGHIU, CRÎNGU ANTONIU IONESCU, ADRIAN NEACȘU, DAN-BOGDAN NAVOLAN, MIHAI CORNEL TRAIAN DIMITRIU, ANDRA IONESCU, VLAD DENIS CONSTANTIN, DANA CRISTINA TERZEA, CRIN MARCEAN, LILIANA PĂDURE, IRINA PACU, Endometrial stromal sarcoma in a 27-year-old woman. Case report and literature review	933

ANCA DANIELA BRĂILA, ANDREI-CĂLIN ZAVATE, ALEX EMILIAN STEPAN, CORNELIU SABETAY, JAMAL KAMEL, MIHAI GEORGESCU-BRĂILA, ALEXANDRU MARIAN GOGĂNĂU, MIRCEA OVIDIU CIOBANU, <i>The acute abdomen in pregnancy and postpartum of a teenager woman. Case report</i>	939
ALEXANDRU DANIEL JURCĂ, MARIA CLAUDIA JURCĂ, MARIUS BEMBEA, KINGA KOZMA, MAGDALENA BUDIȘTEANU, CRISTINA GUG, <i>Clinical and genetic diversity of congenital hyperammonemia</i>	945
MIHAI LUPU, ANA CĂRUNTU, LILIANA MORARU, VLAD MIHAI VOICULESCU, DANIEL BODA, CRISTIANA TĂNASE, CONSTANTIN CĂRUNTU, <i>Non-invasive imaging techniques for early diagnosis of radiation-induced squamous cell carcinoma of the lip</i>	949
ILEANA MARINESCU, OCTAVIAN VASILIU, DANIEL VASILE, <i>Translational approaches in treatment-resistant depression based on animal model</i>	955
CLAUDIA TEODORA JUDEA-PUSTA, GABRIELA MUȚIU, ANDREI VASILE PAȘCALĂU, CAMELIA LIANA BUHAS, ADINA NICOLETA CIURSAȘ, CARMEN DELIA NISTOR-ĆSEPPENTO, ALINA BODEA, ADRIAN SORIN JUDEA, RĂZVAN MARIUS VICAȘ, LUCIANA DOBJANSCHI, OVIDIU LAUREAN POP, <i>The importance of the histopathological examination in lethal acute intoxication with ethylene glycol. Case report</i>	965
CRISTIAN MEŞINĂ, THEODOR VIOREL DUMITRESCU, STELIAN ȘTEFĂNIȚĂ MOGOANTĂ, MIHAI CĂLIN CIORBAGIU, DANIEL ALIN CRISTIAN, MIHAELA-IUSTINA MEŞINĂ-BOTORAN, CORINA-LAVINIA GRUIA, MARIA CAMELIA FOARFĂ, MIHAI MEŞINĂ, MARIUS EUGEN CIUREA, DANIELA CIOBANU, <i>An unusual cause of acute surgical abdomen: benign multicystic peritoneal mesothelioma associated with adenomatous tumor</i>	971
VICTOR VLAD COSTAN, CAMELIA TAMAȘ, NICOLAE DOBRIN, DAN ALEXANDRU COSTACHE, MANUELA CIOCOIU, <i>Mixed (nodular and morpheic) upper eyelid basal cell carcinoma with orbital invasion – histological and clinical features</i>	977
MARIA CLAUDIA JURCĂ, MARIUS BEMBEA, OANA ALEXANDRA IUHAS, KINGA KOZMA, CODRUȚA DIANA PETCHEȘI, ALEXANDRU DANIEL JURCĂ, ARIANA SZILÁGYI, DIANA LUMINIȚA DUBĂU, CRISTIAN NICOLAE SAVA, DANA CARMEN ZAHĂ, EMILIA ALBINIȚĂ CUC, <i>Double autosomal trisomy with mosaicism 47,XY(+8)/47,XY(+21). Morphological and genetic changes of a rare case</i>	985
HORAȚIU CONSTANTIN URECHESCU, NICOLAE CONSTANTIN BALICA, CRISTIAN ANDREI SARĂU, FLORIN ANGHELINA, IOANA DELIA HORHAT, FLAVIA BADERCA, EMILIA MANUELA JIFCU, EUGEN HORAȚIU ȘTEFĂNESCU, MĂRIOARA POENARU, MARIUS OCTAVIAN PRICOP, <i>Basal cell carcinoma and basosquamous carcinoma, two faces of the same condition?</i>	989
CRISTINA TEODORA PREOTEASA, ELENA PREOTEASA, <i>Compound odontoma – morphology, clinical findings and treatment. Case report</i>	997
BIOMEDICAL RESEARCH ETHICS	
IULIAN GABRIEL POPESCU, GABRIELA SECHEL, FLORIN GABRIEL LEAȘU, MARILENA MONICA ȚÂNȚU, BOGDAN-VIRGIL COTOI, LILIANA MARCELA ROGOZEZA, <i>Correlations on the protection of personal data and intellectual property rights in medical research</i>	1001
LETTER TO THE EDITOR	
DANIELE CORACI, LUCA GENTILE, JULIANNE TANNOUS CORDENONSSI, CLAUDIA LORETI, CRISTINA CUCCAGNA, LUCA PADUA, “Who seeks finds, who compares discovers”. Usefulness of ultrasound to assess small nerve branches	1007
Guide for Authors	1009