ISSN: 2161-6760 Vol. 3, No. 3, July 2013



Stem Cell Discovery



www.scirp.org/journal/scd

Journal Editorial Board

ISSN: 2161-6760 (Print) ISSN: 2161-6787 (Online)

http://www.scirp.org/journal/scd

Editor in Chief

Dr. Ming Zhan Methodist Hospital Research Institute, USA

Editorial Board (According to Alphabet)

Dr. Fahd Al-Mulla

Prof. Saved Amin Mohamed Amer

Dr. Anand Anbarasu

Prof. Jean-François Beaulieu Dr. Kenneth Richard Boheler

Dr. Dean J. Burkin Dr. Arvind Chhabra **Dr. Robert Paul Coppes**

Prof. Francesco Filippini Dr. Nicholas R. Forsyth

Dr. Umberto Galderisi

Dr. Jian-Xin Gao

Dr. Pantelis Georgiades Prof. Antonio Giordano

Dr. Jonathan R. Keller

Dr. Hitoshi Komuro Prof. Jong Eun Lee

Dr. Anskar Yu-Hung Leung

Dr. Yonghe Li

Prof. Guanghui Liu

Dr. Didier Merlin

Dr. Eran Meshorer

Dr. Chiara Mondello Prof. Tarik Möröy

Dr. Janet L. Paluh

Dr. Cesare Patrone

Dr. Elias A. Said Prof. Åke Sjöholm

Prof. Jin Tao

Dr. Stavros Taraviras

Dr. Christian Templin

Prof. Marta Tesone

Dr. Kohichiro Tsuji

Dr. Yigang Wang

Prof. Guozhi Xiao

Prof. Masayoshi Yamaguchi

Kuwait University, Kuwait

Cairo University, Egypt

VIT University, India

Université de Sherbrooke, Canada

National Institutes of Health, USA

University of Nevada School of Medicine, USA

University of Connecticut Health Center, USA

University of Groningen, The Netherlands

University of Padua, Italy

Keele University Medical School, UK

Second University of Napoli, Italy

The Ohio State University, USA

University of Cyprus, Cyprus University of Siena, Italy

National Cancer Institute-NIH, USA

Lerner Research Institute, USA

Yonsei University, South Korea

The University of Hong Kong, China

Southern Research Institute, USA

Chinese Academy of Sciences, China

Emory University, USA

The Hebrew University of Jerusalem, Israel

Institute of Molecular Genetics, Italy

Université de Montréal, Canada

College of Nanoscale Science and Engineering, USA

Karolinska Institute, Sweden

Montreal University, Canada

Karolinska Institute, Sweden

Soochow University, China

University of Patras, Greece

University Hospital Zürich, Switzerland

University of Buenos Aires, Argentina

University of Tokyo, Japan

University of Cincinnati, USA

University of Pittsburgh School of Medicine, USA

Emory University School of Medicine, USA

TABLE OF CONTENTS

Volume 3, Number 3, July 2013

Human umbilical cord-derived mesenchymal stromal cells promote sensory recovery in a spinal cord injury rat model	
S. Takikawa, A. Yamamoto, K. Sakai, R. Shohara, A. Iwase, F. Kikkawa, M. Ueda	155
Human adipose tissue-derived stem cells in breast reconstruction following surgery for cancer: A controversial issue	
M. G. Scioli, V. Cervelli, P. Gentile, A. Bielli, R. Bellini, A. Orlandi	164
Matrigel modulates a stem cell phenotype and promotes tumor formation in a mantle cell lymphoma cell line	
A. Hielscher, T. McGuire, D. Weisenburger, J. G. Sharp.	167
The combination of epidermal growth factor and glycogen synthase kinase 3 inhibitor support long-term self-renewal of Sca-1 positive hepatic progenitor cells from normal adult mice	
CX. Jin, L. Samuelson, CB. Cui, YZ. Sun, D. A. Gerber.	180
Differentiation of human osteosarcoma 3AB-OS stem-like cells in derivatives of the three primary germ layers as a useful <i>in vitro</i> model to develop several purposes	
R. Di Fiore, R. Drago-Ferrante, A. D'Anneo, A. De Blasio, A. Santulli, C. Messina, D. Carlisi, G. Tesoriere, R. Vent	188

Stem Cell Discovery (SCD)

Journal Information

SUBSCRIPTIONS

The *Stem Cell Discovery* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$59 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright@2013 Scientific Research Publishing, Inc.

All Rights Reserved. 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, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assumes no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: scd@scirp.org

Call for Papers

Stem Cell Discovery

ISSN 2161-6760 (Print) ISSN 2161-6787 (Online) http://www.scirp.org/journal/scd



Stem Cell Discovery (**SCD**) is an international journal dedicated to the latest advancement of stem cell discovery. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of stem cell discovery. All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy.

Editor in Chief

Dr. Ming Zhan

Methodist Hospital Research Institute, USA

Editorial Board

Dr. Fahd Al-Mulla
Prof. Sayed Amin Mohamed Amer
Dr. Anand Anbarasu
Prof. Jean-François Beaulieu
Dr. Kenneth Richard Boheler
Dr. Dean J. Burkin
Dr. Arvind Chhabra
Dr. Robert Paul Coppes

Dr. Robert Paul Coppes Prof. Francesco Filippini Dr. Nicholas R. Forsyth Dr. Umberto Galderisi

Dr. Jian-Xin Gao

Dr. Pantelis Georgiades Prof. Antonio Giordano Dr. Jonathan R. Keller Dr. Hitoshi Komuro Prof. Jong Eun Lee Dr. Anskar Yu-Hung Leung Dr. Yonghe Li

Dr. Yonghe Li Prof. Guanghui Liu Dr. Didier Merlin Dr. Eran Meshorer Dr. Chiara Mondello Prof. Tarik Möröy Dr. Janet L. Paluh Dr. Cesare Patrone Dr. Elias A. Said Prof. Åke Sjöholm Prof. Jin Tao

Dr. Stavros Taraviras Dr. Christian Templin Prof. Marta Tesone Dr. Kohichiro Tsuji Dr. Yigang Wang Prof. Guozhi Xiao

Prof. Masayoshi Yamaguchi

Stem Cell Discovery, a peer reviewed journal, provides a forum for prompt publication of original investigative papers and concise reviews. It will include all the primary discoveries from stem cell basic and translational research, specifically including the fields but not limited as the follows:

a) Fields:

- Stem Cell and Diseases
- Stem Cell Development and Differentiation
- Stem Cell Therapy
- Tissue Regeneration

b) All types of stem cells: Adult Tissue Stem Cells (ATSC); Embryonic Stem Cells (ESC); Germline Stem Cells (GSC); Inducible Stem Cells (ISC).

c) Various organisms: from insects to mammalian

We are also interested in: 1) Short reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book reviews—Comments and critiques.

Notes for Intending Authors

Submitted papers should not be previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. For more details, please access the website.

E-mail: scd@scirp.org

Website and E-Mail

http://www.scirp.org/journal/scd