



American Heart Association®

Basic Cardiovascular Sciences

Dear Hadyanto Lim,

We are pleased to inform you that your abstract has been accepted for Moderated ePoster presentation at the **Basic Cardiovascular Sciences 2021 Scientific Sessions: New Frontiers in Cardiovascular Research and Therapy** *virtual event* scheduled for August 23-25, 2021. A virtual moderated poster session provides a discussion platform for posters in the virtual experience. These sessions will consist of ePoster presenters and discussion led by two moderators.

Your abstract: **Detection Of Mesenchymal Stem Cells In Mobilized Autologous Peripheral Blood Transplantation From Patients With Ischemic Heart Disease** has been assigned Presentation Number: **MP243**

This is the number by which it will be referenced in future correspondence and in the program.

Your moderated poster presentation is scheduled as follows:

Session Title: Moderated Poster Session 3A: Bench to Bedside, Epigenetic Approaches and Metabolism

Session Date and Time: 8/25/2021 12:30:00 PM - 8/25/2021 1:30:00 PM

Presentation Date and Time: 8/25/2021 12:40:00 PM - 8/25/2021 12:45:00 PM

Please scroll to the bottom of the page and click "Confirm" to accept this invitation or "Decline" to waive your acceptance to the program. The deadline date to accept or decline is **Wednesday, June 30 by Noon CST**. Please note that it is extremely important you indicate your acceptance and read through the following information very carefully as we have very tight deadlines.

As a moderated poster presenter, your poster will be part of a pre-recorded moderated poster session with live Q&A/discussion following the presentations. Your session time is noted in your notification. **All times are US Central Daylight Time.**

Two moderators will be assigned to the session in which you are presenting and will lead a live discussion of the research. You will be asked to join your session 30 minutes prior to the start time, where you will be taken to a green room to prepare and ensure your camera and microphone are working and you are comfortable with the functions of the Juno virtual platform.

Once the session begins, your **pre-recorded poster presentation** will be shown along with the other presentations in the session. You will be asked to be online and engage through the chat and live QA. Once the pre-recorded portion of the session has ended, you will join the moderators and the other presenters for live Q&A and discussion. Full training will be held by Juno staff closer the conference dates and specific details will be forwarded to you.

Your poster file must be in one of the following formats:

-MP4 file with 1 poster slide, audio, & video

-MP4 file with ppt slides and audio & video.

Your presentation should be no longer than **5 minutes**. Do not exceed your recording time, otherwise you will be asked to re-record your presentation.

NOTE: You are required to list your disclosures as the first slide of your presentation or if you are submitting 1 poster slide, they must be listed on the page. You should call attention to your disclosure as you begin your presentation.

Beginning today, you may submit your poster image or video file via this link: <https://www.dropbox.com/request/RxY8iTwNTa2HaBU0om47>

We must receive your file no later than July 14, 2021. If you do not upload your presentation by the deadline, your presentation will not be included in the program.

*IMPORTANT: Please name your file in this specific order: BCVS.moderated poster number.last name.first name (for example: BCVS.MP201. Doe.John). Please contact Grace Wahhab at grace@wisdomcapture.com if you have any technical questions related to uploading this poster information.

Your poster file will **also** be available for viewing in the virtual poster hall after your session has taken place. Attendees will have an area on your page to enter questions and comments. We highly recommend you visit your poster page periodically to respond to questions regarding your work.

Publication

All presented abstracts, ePoster, moderated ePoster and oral presentations, will be published in the American Heart Association's online supplement to the Circulation Research journal. Requests for withdrawal of an abstract must be received in writing by **July 6, 2021** to avoid publication.

Registration

Conference registration opens June 28. You will need to register for the conference to participate in your session and the rest of the program. Please visit the [BCVS conference website](#) to register for the meeting.

Please contact the program manager (Viola.Gold@heart.org) if you should have any questions. We look forward to your participation in our virtual event and again, congratulations on the acceptance of your abstract.

Click the "Confirm Presenter" button to confirm your participation.

Technical Issues? Contact the [cOASIS Helpdesk](#) or call 217-398-1792.

[American Heart Association](#)

7272 Greenville Avenue
Dallas, Texas 75231

Powered by [cOASIS](#), The Online Abstract Submission and Invitation System SM
© 1996 - 2021 [CTI Meeting Technology](#) All rights reserved.

Detection of Mesenchymal Stem Cells in Mobilized Autologous Peripheral Blood Transplantation from Patients with Ischemic Heart Disease

Hadyanto Lim ^{1,2}, Umar Zein ³, Ilham Hariaji ⁴

¹ Department of Pharmacology and Molecular Sciences, Faculty of Medicine, Methodist University of Indonesia, Medan-North Sumatra, Indonesia

² Postgraduate Program, Biomedical Sciences Study, Faculty of Medicine, Methodist University of Indonesia, Medan-North Sumatra, Indonesia

³ Department of Internal Medicine, Division of Tropical Medicine and Hygiene, Faculty of Medicine, Islamic North Sumatra University, Medan-North Sumatra, Indonesia

⁴ Department of Pharmacology and Therapeutics, Faculty of Medicine, Muhammadiyah North Sumatra University, Medan-North Sumatra, Indonesia

ABSTRACT

Background : Mesenchymal stem cells (MSCs) improve the cardiac function and remodeling in patients with ischemic heart disease. However, their presence in the circulating peripheral blood and post-transplantation has not been fully elucidated. We aimed to investigate the effects of intravenous transplantation of mobilized autologous peripheral blood on the number of MSCs in patients with ischemic heart disease.

Methods : Granulocyte colony stimulating factor (G-CSF, 5.0 µg/kg/day) was given subcutaneously once a day for five days to 7 patients (4 women and 3 men, aged 54-69 years) with ischemic heart disease. Leukapheresis procedure was started on the day 5 of G-CSF using the Spectra Optia cell separator. Circulating and intravenous transplantation of autologous MSCs after leukapheresis were analyzed by flow cytometry. MSCs were identified on the basis of dual positive cells (CD73⁺/CD105⁺ or CD90⁺/CD73⁺ or CD90⁺/CD105⁺) and detected as MSCs if a cluster of at least 10 cells could be found.

Results : MSCs in the circulating peripheral blood and after transplantation were detected in 2 (28%) and 6 (85%) patients, respectively. The frequency of intravenous peripheral blood MSCs increased significantly after transplantation (from $32.57 \pm 22.76 \times 10^{-4} \%$ to $58.57 \pm 28.49 \times 10^{-4} \%$, $p < 0.001$). Moreover, there were significant rise in the total white blood cells count (from $10.25 \pm 4.86 \times 10^3/\mu\text{L}$ to $35.81 \pm 7.07 \times 10^3/\mu\text{L}$, $p < 0.001$) and the levels of CD34⁺ cells (from $1.17 \pm 0.93 \text{ cells}/\mu\text{L}$ to $138.30 \pm 11.26 \text{ cells}/\mu\text{L}$, $p < 0.001$) after the infusion.

Conclusions : The results show that intravenous transplantation of mobilized autologous peripheral blood increases the number of MSCs in patients with ischemic heart disease. Leukapheresis product of peripheral blood MSCs could therefore be a potential source for autologous transplantation in ischemic heart disease.

From: Viola Gold <viola.gold@heart.org>
Subject: BCVS 2021: Speaker/Moderator Training
Date: 29 July 2021 06.19.46 GMT+7
To: "bradford.hill@louisville.edu" <bradford.hill@louisville.edu>, "gcrowe@uab.edu" <gcrowe@uab.edu>, "fuqin@mails.tjmu.edu.cn" <fuqin@mails.tjmu.edu.cn>, "hadyantolim@hotmail.com" <hadyantolim@hotmail.com>, "vyashitu25@gmail.com" <vyashitu25@gmail.com>, "fshinhouston@tamu.edu" <fshinhouston@tamu.edu>, "lu.liu@inserm.fr" <lu.liu@inserm.fr>, "kmf@temple.edu" <kmf@temple.edu>, "u1000319@utah.edu" <u1000319@utah.edu>, "chaitali.misra@gmail.com" <chaitali.misra@gmail.com>, "rwu3@medicine.bsd.uchicago.edu" <rwu3@medicine.bsd.uchicago.edu>

Dear BCVS Speakers and Moderators,

We are looking forward to your participation in the upcoming BCVS 2021 virtual conference scheduled for August 23-25. We will be using the Juno virtual event platform.

The staff at Juno has set up two training sessions designed to familiarize you with the platform and provide instructions for engaging with the audience. This training is applicable to ALL program participants (invited speakers, oral abstract presenters, moderated poster presenters, panelist, awardees, moderators) participating in a LIVE or prerecorded session.

Juno's training will review how to login and navigate the platform, how to turn your audio/camera's on, how to use the chat and live Q&A features.

1. We highly suggest you attend one of the below training sessions in preparation for your role in the program.
2. You must be registered for the conference to participate in the training and the virtual event on August 23-25.

As you participate in the training session, note that you will be a moderator/presenter in the below prerecorded session with a live Q&A at the end of the session. All participants in the session will be asked to arrive in the "green room" 30 minutes prior to the start of their session (not 10 minutes as noted in the link below). The moderators will introduce themselves, the session title, and speakers via the chat box and will also be responsible for fielding questions via the chat box and live Q&A at the end of the session.

WEDNESDAY- August 25 (Central Standard Time)

12:30 – 1:30 pm

Moderated Poster Session 3A: Bench to Bedside, Epigenetic Approaches and Metabolism

Moderators: Bradford Hill, PhD, FAHA
Glenn C. Rowe, PhD

12:30 pm MP241 - Roflumilast-mediated Phosphodiesterase 4d Inhibition Reverses Diabetes-associated Cardiac Dysfunction And Remodeling: Effects Beyond Glucose Lowering

Rui Xu, Jing Fu, Qin Fu, Dept of Pharmacology, Sch of Basic Med, Tongji Medical college, Huazhong Univ of Science and Technology, Wuhan, China

12:35 pm Open

12:40 pm MP243 - Detection Of Mesenchymal Stem Cells In Mobilized Autologous Peripheral Blood Transplantation From Patients With Ischemic Heart Disease

Hadyanto Lim, Dept of Pharmacology and Pharmacy, Faculty of Med, Methodist Univ of Indonesia, Medan-North Sumatra, Indonesia ; Postgraduate Program, Biomedical Sciences Study, Faculty of Med, Methodist Univ of Indonesia, Medan-North Sumatr, Medan, Indonesia; Umar Zein, Dept of Internal Med, Div of Tropical Med and Hygiene, Faculty of Med, Islamic North Sumatra Univ, Medan-North Sumatra, Indonesia, Medan, Indonesia; Ilham Hariaji, Dept of Pharmacology and Therapeutics, Faculty of Med, Muhammadiyah North Sumatra Univ, Medan-North Sumatra, Indonesia, Medan, Indonesia

12:45 pm MP244 - Deciphering The Mechanism Of Elevation Of Mir34a And Its Attenuation Via Corm A1 And Subsequent Improvement In Mitochondrial Status In Atherogenic Mdms

Hitarthi Vyas, The Maharaja Sayajirao Univ, Vadodara, India; Ranjitsinh Devkar, THE MAHARAJA SAYAJIRAO UNIVERSITY, Vadodara, India

12:50 pm MP245 - Tet Proteins Regulate Second Heart Field Multipotent Progenitors Differentiating To Myocytes

Shaohai Fang, Jia Li, Inst of Biosciences and Technology, Texas A&M Univ, Houston, TX; Jeff D. Steimle, Dept of Molecular Physiology and Biophysics, Baylor Coll of Med, Houston, TX; Lei Guo, Yuhuan Yang, Tingting Hong, Rui Wang, Wei Han, Yubin Zhou, Inst of Biosciences and Technology, Texas A&M Univ, Houston, TX; Jun Wang, The Univ of Texas Health Science Ctr at Houston, Houston, TX; James F. Martin, Dept of Molecular Physiology and Biophysics, Baylor Coll of Med, Houston, TX; Yun Huang, Inst of Biosciences and Technology, Texas A&M Univ, Houston, TX

12:55 pm MP246 - Epigenetic Regulation At LRP1 Susceptibility Locus And Characterization Of LRP1 Function In Human Induced Pluripotent Stem Cells Derived Smooth Muscle Cells

LU LIU, Adrien Georges, Nabila Bouatia-Naji, Univ de Paris, Inserm U970, PARCC, Paris, France

1:00 pm MP247 - Mitochondrial Complex V Is Regulated By GRK2 In The Heart

Kimberly Ferrero, Lewis Katz Sch of Med, Philadelphia, PA; Jessica M Pflieger, TEMPLE UNIVERSITY, Philadelphia, PA; Kurt Chuprun, Lewis Katz Sch of Med,

Philadelphia, PA; Eric Barr, TEMPLE UNIVERSITY, Philadelphia, PA; Erhe Gao, Lewis Katz Sch of Med at Temple Uni, Philadelphia, PA; Walter J Koch, TEMPLE UNIVERSITY SCHOOL MEDIC, Philadelphia, PA

1:05 pm MP248 - Sequestosome1/p62 Regulates Redox Homeostasis Via The Nrf2-keap1 Pathway In The Murine Heart

Amir N Fatahian, Rajeshwary Ghosh, Karla M. Pires, Univ of Utah, Salt Lake City, UT; TARIQ MOSLEH, Vishaka Vinod, Sidney Vowles, Univ of Utah, Salt Lake City, UT; Kenneth S Campbell, UNIVERSITY OF KENTUCKY, Lexington, KY; J David D Symons, Univ of Utah, Salt Lake Cty, UT; Sihem Boudina, UNIV UTAH, Salt Lake Cty, UT

1:10 pm MP249 - Mechanistic Basis And Therapeutic Potential Of Targeting The Non-muscle Rbfox2 Isoform In Myotonic Dystrophy

Chaitali Misra, Ullas V Chembazhi, UNIVERSITY OF ILLINOIS, Urbana, IL; Sarah Matatov, Univ of Illinois at Urbana, Savoy, IL; Sushant Bangru, UNIVERSITY OF ILLINOIS, Urbana, IL; Auinash Kalsotra, Univ of Illinois, Urbana, IL

1:15 pm MP250 - Reduction In Endothelial Aryl Hydrocarbon Receptor Nuclear Translocator (arnt) Mediates Vascular Dysfunction In Mice With Type 2 Diabetes Mellitus

Tu Nguyen, Kaichao Pan, Maura Knapp, Mei Zheng, Nikola Sladojevic, Lizhuo Ai, Albert Sitikov, Univeristy of Chicago, Chicago, IL; Frank Gonzalez, Natl Cancer Inst, Bethesda, MD; James K Liao, Univ of Chicago, Chicago, IL; Rongxue Wu, Univeristy of Chicago, Chicago, IL

1:20 pm Live Q&A

Training Sessions are scheduled for:

Tuesday, August 17 --10:00 – 11:00 am (central time)
and

Wednesday, August 18--2:00 – 3:00 pm (central time)

I will be sending you both meeting notices, so that you may join the one that works best for you. If you are unable to attend either training, I will distribute the link to the recorded training sessions.

Also, below is a link to a FAQ document for all participants.

<https://junolive.atlassian.net/l/c/1phe6cvW>

Let me know if you have any questions.

Regards,

unknown.png →

Viola Gold

Sr. Mgr-Professional Education, Lifelong Learning
American Heart Association

7272 Greenville Ave | Dallas | TX | 75231
O 214.706.1411 | M 214.673.7355