DESCRIPTION

JACC: Basic to Translational Science, is one of a family of specialist journals launched by the renowned Journal of the American College of Cardiology (JACC). An open access journal, it serves as forum for advancing the field Translational Cardiovascular Medicine, and as a platform for accelerating the translation of novel scientific discoveries into new therapies that improve clinical outcomes for patients affected with or at risk for Cardiovascular Disease. Thematic areas of interest include pre-clinical research; clinical trials; personalized medicine; novel drugs, devices, and biologics; proteomics, genomics and metabolomics; and early phase clinical trial methodology.

The other specialist titles in this series are: JACC: CardioOncology JACC: Cardiovascular Imaging JACC: Cardiovascular Interventions JACC: Case Reports JACC: Clinical Electrophysiology JACC: Heart Failure

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Introduction

JACC: Basic to Translational Science, an open access journal, serves a forum for advancing the field of Translational Cardiovascular Medicine, and as a platform for accelerating the translation of novel scientific discoveries into new therapies that improve clinical outcomes for patients affected with or at risk for Cardiovascular Disease. Thematic areas of interest include pre-clinical research; clinical trials; personalized medicine; novel drugs, devices, and biologics; proteomics, genomics and metabolomics; and early phase clinical trial methodology.

All submitted articles are reviewed by the Editor and Associate Editors. Articles are then sent out to two peer reviewers. All reviews are double-blinded. While all recommendations are discussed and considered by the group of Associate Editors, the final decision rests with the Editor-in-Chief. As a member of the JACC Family of Journals, this journal publishes only the highest quality content and is subject to the same rigorous, double-blind peer review standards as all the JACC journals.

Peer Review

The JACC Journals use a single-blind peer-review process. Papers are assigned an Associate Editor, who can assign up to two peer reviewers, although more can be assigned if necessary.

General Guidelines for Submission of Original Research Papers

JACC: Basic to Translational Science is not restricted to page length, however the Editors prefer that manuscripts not exceed 5,500 words (including references and figure legends). Note that if you are asked to revise your paper an alternate word limit may be specified by the Editors. Illustrations and tables should be limited to those necessary to highlight key data. Please provide gender-specific data, when appropriate, in describing outcomes of epidemiologic analyses or clinical trials; or specifically state that no gender-based differences were present.

The manuscript should be arranged as follows: 1) title page; 2) structured abstract and key words; 3) condensed abstract; 4) abbreviations list; 5) text; 6) acknowledgments (if applicable); 7) Funding Sources 8) references; 9) figure titles and legends; and 10) tables.

Other Paper Categories

The following information should be noted for these paper types:

STATE-OF-THE-ART PAPERS. The Editors will consider both invited and volunteered review articles. Such manuscripts must adhere to preferred length guidelines and require an unstructured abstract of no more than 5000 words. Authors should detail in their cover letters how their submission differs from existing reviews on the subject.

LEADING EDGE TRANSLATIONAL RESEARCH articles are discrete, highly significant, innovative or novel findings reported in a shorter format of 3,500 words or fewer in length. Editors will review for interest within seven (7) days of submission. These may be invited or volunteered manuscripts.

IMAGES IN BASIC TRANSLATIONAL RESEARCH. The editors will consider clinical or basic science images including studies in motion that illustrate either important classic or novel findings in the field of cardiovascular basic translational research. Text should consist of a title page and a description of no more than 300 words, including up to 4 references and a figure legend. Movie clips may be submitted in any of the standard formats (see “Video Requirements”). Although often presented within the context of a case, the images in this section are not intended as a vehicle for case reports.

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LEADING EDGE TRANSLATIONAL SCIENCE Articles are discrete, highly significant, innovative or novel findings reported in a shorter format of 3,500 words or fewer in length. Editors will review for interest within seven (7) days of submission. These may be invited or volunteered manuscripts.

Although usually invited, succinct opinion pieces relevant to a specific aspect of translational medicine will also be considered for JACC: Basic to Translational Science. They should not exceed 2,500 words and should have no more than a total of 2 figures and tables than 5 references.

Contact details for submission

We request that all manuscripts be submitted online at https://www.jaccsubmit-basicts.org/cgi-bin/main.plex.

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Manuscript submissions should conform to the guidelines set forth in the "Uniform Requirements for Manuscripts Submitted to Biomedical Journals: Writing and Editing for Biomedical Publication," available from http://www.ICMJE.org and most recently updated in December 2014.

Ethics in publishing

Please see our information pages on Ethics in publishing and Ethical guidelines for journal publication.

Ethics

Studies should be in compliance with human studies committees and animal welfare regulations of the authors' institutions and Food and Drug Administration guidelines. All papers submitted to the journal will be subject to plagiarism checks.

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The text should be structured as Introduction, Methods, Results, and Discussion. Use headings and subheadings in the Methods, Results, and particularly, Discussion sections. Every reference, figure, and table should be cited in the text in numerical order according to order of mention. For accepted papers, authors will be asked to provide a list of bulleted highlights and a summary to replace the abstract (see Visual Abstract instructions).

Perspectives
The authors should delineate clinical implications and translational outlook recommendations for their manuscripts. These should be listed in the manuscript after the Text and before the Acknowledgments and References. Please review the examples provided below. The implications describe the consequences of the study for current practice. The translational outlook identifies the potential barriers to clinical translation, emphasizing directions for additional research. Clinical Competencies. Competency-based learning in cardiovascular medicine addresses the 6 domains promulgated by the Accreditation Council on Graduate Medical Education (ACGME) and endorsed by the American Board of Internal Medicine (Medical Knowledge, Patient Care and Procedural Skills, Interpersonal and Communication Skills, Systems-Based Practice, Practice-Based Learning, and Professionalism) (http://www.acgme.org/acgmeweb). The ACCF has adopted this format for its competency and training statements, career milestones, lifelong learning, and educational programs. The ACCF also has developed tools to assist physicians in assessing, enhancing, and documenting these competencies (https://www.acc.org/education-and-meetings/products-and-resources/competencies).

Authors are asked to consider the clinical implications of their report and identify applications in one or more of these competency domains that could be used by clinician readers to enhance their competency as professional caregivers.

This applies not only to physicians in training, but to the sustained commitment to education and continuous improvement across the span of their professional careers.
**Perspectives**

**Translational Outlook.** Translating biomedical research from the laboratory bench, clinical trials or global observations to the care of individual patients can expedite discovery of new diagnostic tools and treatments through multidisciplinary collaboration. Effective translational medicine facilitates implementation of evolving strategies for prevention and treatment of disease in the community. The Institute of Medicine identified two areas needing improvement: testing basic research findings in properly designed clinical trials and, once the safety and efficacy of an intervention has been confirmed, more efficiently promulgating its adoption into standard practice (Sung NS, Crowley WF, Genel M. The meaning of translational research and why it matters. JAMA 2008;299:3140–3148).

The National Institutes of Health (NIH) has recognized the importance of translational biomedical research, emphasizing multifunctional collaborations between researchers and clinicians to leverage new technology and accelerate the delivery of new therapies to patients (https://ncats.nih.gov/index.php).

Authors are asked to place their work in the context of the scientific continuum, by identifying impediments and challenges requiring further investigation and anticipating next steps and directions for future research.

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Include the full title, authors names (including full first name and middle initial and degrees), total word count, and a brief title of no more than 15 words. List the departments and institutions with which the authors are affiliated, and indicate the specific affiliations if the work is generated from more than one institution (use superscript letters \( a, b, c, d \), and so on). Also provide information on grants, contracts, and other forms of financial support, and list the cities and states of all foundations, funds and institutions involved in the work. Include any relationship with industry (see "Relationship With Industry Policy"). If there are no relationships with industry, this should be stated. Under the heading, "Address for correspondence," give the full name and complete postal address of the author to whom communications, author proofs, and reprint requests should be sent. Also provide telephone and fax numbers and an email address for the corresponding author.

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Provide a structured abstract of no more than 250 words, presenting essential data in 5 paragraphs introduced by separate headings in the following order: Objectives, Background, Methods, Results, and Conclusions. Use complete sentences. All data in the abstract must also appear in the manuscript text or tables. For general information on preparing structured abstracts, see "Haynes RB, Mulrow CD, Huth EJ, Altman DG, Gardner MJ. More informative abstracts revisited. Ann Intern Med 1990;113:6976." An unstructured abstract is appropriate for review articles.

**Abbreviations**

The abbreviations of common terms (e.g., ECG, PTCA, CABG) or acronyms (GUSTO, SOLVD, TIMI) may be used in the manuscript. On a separate page following the condensed abstract, list the selected abbreviations and their definitions (e.g., TEE = transesophageal echocardiography). The Editors may determine which lesser known terms should not be abbreviated. Please consult "Uniform Requirements for Manuscripts Submitted to Biomedical Journals: Writing and Editing for Biomedical Publication," available from http://www.ICMJE.org and most recently updated in December 2014, for appropriate use of units of measure.
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All publishable manuscripts will be reviewed for appropriateness and accuracy of statistical methods and statistical interpretation of results. We subscribe to the statistics section of the "Uniform Requirements for Manuscripts Submitted to Biomedical Journals: Writing and Editing for Biomedical Publication," available from http://www.ICMJE.org and most recently updated in December 2014. In the Methods section, provide a subsection detailing the statistical methods, including specific methods used to summarize the data, methods used for hypothesis testing (if any), and the level of significance used for hypothesis testing. When using more sophisticated statistical methods (beyond t tests, chi-square, simple linear regression), specify the statistical package, version number, and nondefault options used. For more information on statistical review, see "Glantz SA. It is all in the numbers. J Am Coll Cardiol 1993;21:8357."

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Example #1: https://www.jacc.org/doi/10.1016/j.jacbts.2016.01.007
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