

Biophysical Society 2020 (生物物理学年会), SCI 级别会议刊物 生物学项目周同学

Biophysical Society 2020

Search

Login

About BPS 2020

Sessions

Authors

Exhibitors

Maps

Social Media

Abstracts

Attendee Profiles

Privacy Policy

★ [Redacted] - RELATIONSHIP BETWEEN AMINO ACID SEQUENCE MUTATIONS AND HUMAN DISEASES REVEALED BY PIEZO 1 ION CHANNEL STRUCTURAL ANALYSIS

Number: [Redacted]
Abstract Category: CHANNELS → 5F Ion Channel Regulatory Mechanisms

Authors
Zhou, [Redacted]

Authors
[Redacted] Zhou, [Redacted] China

Body

Date & Time: 2/17/2020 - 1:45 PM - 3:45 PM

Additional Techniques: CHANNELS → 5F Ion Channel Regulatory Mechanisms, Nanotechnology, Molecular Modeling, Single Molecule Methods

RELATIONSHIP BETWEEN AMINO ACID SEQUENCE MUTATIONS AND HUMAN DISEASES REVEALED BY PIEZO 1 ION CHANNEL STRUCTURAL ANALYSIS

Author Block: [Redacted] Zhou, [Redacted] China

Since first identified in 2010, Piezo proteins have been found to perform as pore-forming mechanosensitive ion channels across a wide range of animals. As a Piezo ortholog primarily expressed in mammalian systems, Piezo1 has been observed to distribute mainly in nonsensory tissues, regulating osmotic homeostasis, proprioception, and light touch. With previous studies on the putative structure of Piezo1, the gating system and several mechanotransduction mechanisms have been proposed. In addition, mutations of specific amino acid sequences in Piezo1 have been identified to cause several human diseases such as dehydrated hereditary xeroderms (DHS) and congenital lymphatic dysplasia (CLD). However, most of these mutations have not been well characterized. To further elucidate the relations between these mutations and diseases, UCSF Chimera is used in this study as the tool to visualize the structural importance of each of these mutated amino acids and specific mechanisms between mutations and human diseases. With the aid from UCSF Chimera, this study has recorded and interpreted clashes and contacts originated from each of the mutations. The discussion of the results about structural changes has included distances between contacted residues, names of contacted residues, and the possibilities for these residues to be involved in the contacts. The linkages between Piezo1's structural parts have been investigated as residues - mutated or contacted - are categorized by the sequence ranges of various portions of the protein.

Sessions

[Redacted] RELATIONSHIP BETWEEN AMINO ACID SEQUENCE MUTATIONS AND HUMAN DISEASES REVEALED BY PIEZO 1 ION CHANNEL STRUCTURAL ANALYSIS
Monday, Feb 17 1:45 PM
Exhibit Hall

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Relationship between Amino Acid Sequence Mutations and Human Diseases Revealed by Piezo 1 Ion Channel Structural Analysis

[Redacted] Zhou

DOI: [https://doi.org/\[Redacted\]](https://doi.org/[Redacted])

ICIM , EI 级别的会议接收函 金融工程项目马同学

The 6th International Conference on Information Management (ICIM2020)



DATE: [REDACTED], 2019

To: University of Wisconsin-Madison, USA

Conference Name	The 6th International Conference on Information Management (ICIM 2020)
Conference Date	27 th - 29 th March, 2020
Conference Venue	Imperial College London, UK

Detail Information for Participants		
Paper ID	Title of paper	Author/s
MT-419-A	Prediction of default probability of credit-card bills	[REDACTED] Ma

ICIM2020 Conference Committee

Ms. Carmen Wong



iafor , Scopus 级别会议接收函 教育学项目周同学

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THE INTERNATIONAL ACADEMIC FORUM
international | intercultural | interdisciplinary

The Asian Undergraduate Research Symposium (AURS2019)

Toshi Center Hotel | Sunday, November 3, 2019

[REDACTED], 2019

Corresponding Author: Zhou [REDACTED], [REDACTED], China

Contact Email: zhous[REDACTED]!6@outlook.com

Submission Title: Using Education to Enhance Gender Equality in the Workplaces in China

Submission Number: [REDACTED]

Authors: Zhou [REDACTED]

Presentation Type: Poster Presentation

Dear Miss [REDACTED]


On behalf of the AURS2019 Organising Committee, I am pleased to inform you that your Poster Presentation proposal, "Using Education to Enhance Gender Equality in the Workplaces in China", for AURS2019 has met the accepted international academic standard of blind peer review, and has been accepted for presentation.

The conference will be held at Toshi Center Hotel, Tokyo, Japan on Sunday, November 3, 2019. For more detailed information about the conference, please visit the conference website.

To confirm your participation in the conference, please register by Thursday, September 19, 2019. Once you have registered, if you cannot present for any reason, please notify the conference team at aur@iafor.org. If there is a day on which you are unable to present, please contact the conference team at the time of registration. We ask that you reserve requests of this nature for religious reasons or other exceptional and unavoidable circumstances.

Thank you for submitting to The Asian Undergraduate Research Symposium. We look forward to welcoming you to the conference.

Yours Sincerely,



Joseph Haldane, PhD (London), F.R.A.S.
Chairman & CEO, IAFOR

The International Academic Forum (IAFOR),
Sakae 1-16-26 - 201, Naka Ward, Nagoya, Aichi, Japan 460-0008
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