

Action Item

UF Author Rights Policy

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UF Author Rights Policy

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Why do we need it?

Traditional publishing model requires authors to sign away copyright with limited or no options to share

The proposed policy would enable sharing a peer-reviewed version of journal articles in noncommercial venues online upon publication

This will support:

Access for peers at international institutions, government agencies, etc.

Increased citation impact

How does it work?

By default, faculty will share (not transfer!) rights in journal articles with UF. Even if faculty sign a publisher agreement, the license to UF remains in place and authors may rely on this license to share.

In practice, this means faculty will be able to share the peer-reviewed accepted manuscript in noncommercial venues (UF institutional repository, arXiv, PubMed Central) upon publication.

The policy is NOT a mandate to share or to publish in specific journals.

Any faculty may opt out via a simple form.

UF | Author Rights

Protecting faculty rights to share our published research.

Sharing scholarly research supports collaboration and enhances impact. A proposed faculty author rights policy offers a legal option to ensure broader dissemination of academic journal articles.

[GIVE FEEDBACK ON THE POLICY →](#)

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What it is

A policy protecting faculty rights to share our scholarly research, specifically academic journal articles.

What it is not

A requirement to publish in specific journals or to share your research against your wishes.

How it works

The policy lets you share your work widely by granting a nonexclusive license to the University. It is not a transfer of copyright, and you can opt out for any reason, no questions asked.

The Faculty of the University of Florida is committed to disseminating the fruits of its research as widely as possible. Faculty further recognize that by this policy, and with the assistance of the University, they can more easily and collectively reserve rights that might otherwise be signed away, often unnecessarily, in agreements with publishers. In keeping with these considerations, and for the primary purpose of making our scholarly articles widely and freely accessible, the Faculty adopts the following policy.

Each Faculty member grants to the University of Florida nonexclusive permission to make available scholarly articles authored by the Faculty member and to exercise the copyright in those articles. In legal terms, the permission granted by each Faculty member is a nonexclusive, irrevocable, paid-up, worldwide license to exercise any and all rights under copyright relating to each scholarly article, in any medium, and to authorize others to do the same, provided that the articles are not sold. Upon publication of a scholarly article authored by the Faculty member, the University of Florida automatically grants to the Faculty member the right to disseminate the accepted manuscript version of the article in any nonprofit repository at any time.

The policy will apply to all scholarly articles written while the person is a member of the Faculty except for any articles completed before the adoption of this policy and any articles for which the Faculty member entered into an incompatible licensing or assignment agreement before the adoption of this policy. This policy does not transfer copyright ownership, which remains with Faculty authors under existing University of Florida policy. The George A. Smathers Libraries, under authority delegated by the Office of the Provost, will waive application of the policy for any Faculty member upon request.

In consultation with the Faculty Senate and the George A. Smathers Libraries, the Office of the Provost will be responsible for interpreting this policy, resolving disputes concerning its interpretation and application, and recommending changes to the Faculty from time to time.

Policy Opt-Out

Based on author preference or an explicit request from your publisher, you may opt out of the policy for an individual article or for all articles you author for the remainder of the calendar year. This means UF will not be granted any rights to share your articles and you may only share according to the specific terms set out by your publisher. You may opt out of the policy for individual articles at any time, before or after publication. No further action is necessary after submission of this form; you will receive a confirmation email that you may share with your publisher if required.

*" indicates required fields

Your Name *

First

Last

Your Email *

Article opt-out OR annual opt-out *

Faculty may opt out of the policy and nonexclusive license to UF for an individual article OR for all articles they write through the remainder of the calendar year.

Article title *

Journal title (Optional)

Full list of authors (Optional)

DOI or link to article (Optional)

Hippocampal Stratum Radiatum, Lacunosum and Moleculare Sparing in Mild Cognitive Impairment

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Running title: Preservation of SRLM in MCI but not in AD

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Abstract: (246 words)

Background: Alzheimer's disease (AD) is associated with atrophy in entorhinal cortex (ERC), the hippocampus, and its subfields Cornu Ammonis 1 (CA1) and subiculum, which predict conversion from Mild Cognitive Impairment (MCI) to clinical AD. The stratum radiatum, lacunosum and moleculare (SRLM) are also important gateways involving ERC and CA1, which are affected by early AD pathology.

Objective: To assess whether the SRLM is affected in MCI and AD.

Methods: In this proof-of-concept study, 27 controls, 13 subjects with AD and 22 with MCI underwent 3T MRI. T1 maps were used for whole-hippocampal volumetry. T2 maps were segmented for hippocampal subfield areas, entorhinal cortex and subiculum thickness, and evaluated for SRLM integrity.

Results: Significant CA1 atrophy and subiculum thinning were found in both AD and MCI compared to similarly aged controls. However, SRLM integrity was only significantly reduced in AD but not in MCI compared to controls. There were no significant differences in other hippocampal subfields (CA2, CA3/Dentate Gyrus) or ERC thickness between the groups. Finally, CA1 and CA3/DG areas and SRLM clarity were correlated with clinical and cognitive measurements of disease severity.

Conclusion: Although this study was cross sectional, it suggests a progression of specific subfield changes from MCI to established AD that is associated with the reduced integrity of SRLM, which may reflect more widespread hippocampal involvement as the disease progresses and the relative preservation of SRLM in MCI. These results provide new MRI biomarkers for disease staging and understanding of the neurobiology in AD.

ARTICLE

Open Access

ATF6 safeguards organelle homeostasis and cellular aging in human mesenchymal stem cells

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Abstract

Loss of organelle homeostasis is a hallmark of aging. However, it remains elusive how this occurs at gene expression level. Here, we report that human mesenchymal stem cell (hMSC) aging is associated with dysfunction of double-membrane organelles and downregulation of transcription factor ATF6. CRISPR/Cas9-mediated inactivation of *ATF6* in hMSCs, not in human embryonic stem cells and human adipocytes, results in premature cellular aging, characteristic of loss of endomembrane homeostasis. Transcriptomic analyses uncover cell type-specific constitutive and stress-induced ATF6-regulated genes implicated in various layers of organelles' homeostasis regulation. *FOS* was characterized as a constitutive ATF6 responsive gene, downregulation of which contributes to hMSC aging. Our study unravels the first ATF6-regulated gene expression network related to homeostatic regulation of membrane organelles, and provides novel mechanistic insights into aging-associated attrition of human stem cells.

Introduction

The cellular proteome is tightly regulated by the proteostasis network, a complex system that controls protein synthesis, folding, and degradation^{1–3}. Preserving the stability and functionality of proteomes is essential for the proper cellular function and biological process. Loss of proteostasis is considered as one of the hallmarks of aging^{4–9}. More evidence shows that accumulation of misfolded or unfolded proteins contributes to the development of aging-related diseases^{1, 4, 10}. Endoplasmic reticulum (ER) is the largest intracellular endomembrane system, enabling protein quality control, Ca²⁺ ion

homeostasis, and organelle communication¹¹. ER executes the protein quality control via two pathways. One is mediated by ER-resident molecular chaperones and enzymes to ensure proper protein folding. The other is ER-associated degradation (ERAD) pathway², by which unfolded or misfolded proteins in the ER are transported to the cytoplasm for degradation through ubiquitin proteasome system^{1–3}.

In addition, ER is connected with other membrane-bound organelles. ER not only physically connects with the outer nuclear membrane and communicates with Golgi apparatus by vesicle transport, but also contacts with mitochondria for coupling mtDNA synthesis and contributes to biogenesis of autophagosomes by cross-talking with mitochondria^{12–14}. Indeed, loss of the architectural and functional integrity of these membrane organelles has been reported for aging and several age-associated disorders^{15, 16}. For instance, senescent cells frequently show alterations in nuclear envelope (NE), mitochondria, ER, and Golgi^{15–18}. The molecular

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