

John P. Aris, PhD

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Academic Positions

1999- Associate Professor, Department of Anatomy and Cell Biology, UF
 1991-99 Assistant Professor, Department of Anatomy and Cell Biology, UF

Administrative Positions

2009- Program Director, Education, Department of Anatomy and Cell Biology, UF
 2017-21 Chair, Pre-clerkship Course Directors Committee, College of Medicine, UF

Postdoctoral Training

1988-91 HHMI Research Associate, Rockefeller University, NY, NY, Advisor: Günter Blobel
 1985-88 NIH Postdoctoral Fellow, Rockefeller University, NY, NY, Advisor: Günter Blobel

Education

1985 PhD, Biological Sciences, Stanford University, Stanford, CA, Advisor: R. D. Simoni
 1979 BS, Chemistry & Biology, Jacksonville University, Jacksonville, FL

Fellowships

1985 NRSA Postdoctoral Fellowship, National Institutes of Health
 1980 Predoctoral Fellowship, National Science Foundation

Grant Support

2022-26 Co-I (10% effort), NIH NIAID P01, *Multi-Scale Evaluation and Mitigation of Toxicities Following Internal Radionuclide Contamination*, PI: Gayle Woloschak (Northwestern University), Deputy PI: Wesley Bolch (UF)
 2021-25 Co-I (8.3% effort), DoD Army MRP, *Aligning Dosimetry and Biomarkers of Lung Injury With Prophylaxis and Mitigation of Damage From Radionuclides and Metals*, PI: Gayle Woloschak (Northwestern University), Deputy PI: Wesley Bolch (UF)
 2005-07 PI (50% effort), NIH R21, *Regulation of Yeast Life Span*
 2002-03 PI, Ellison Medical Foundation, *Extrachromosomal rDNA Circles: More Than Episomes with Origins*
 2000-02 PI, American Cancer Society, Florida Division, *Nucleolar Function and Cell Growth in Yeast*
 1994-99 PI (50% effort), NIH R01, *Nucleolar Function and Cell Growth in Yeast*, \$823,172
 1994-98 Co-PI (10% effort) NIH R01, PI: Gudrun S. Bennett, *Neurofilament Metabolism in Embryonic and Mature Neurons*

Teaching (current courses directed)

| <u>Term</u> | <u>Course</u> | <u>Role</u> |
|-------------|-------------------------|--|
| Fall | Foundations of Medicine | Director for 12-week course for first year MD students |
| Spring | Cell Biology of Aging | Director for 5-week advanced course for PhD students |
| | Histology | Director for 8-week course for first year DMD students |
| | Human Histology | Director for 15-week course for undergraduate students |
| | Protein Trafficking | Director for 5-week advanced course for PhD students |

Awards and Honors

- 2006-21 Exemplary Teacher Award, College of Medicine, UF
- 1992 New Investigator Award, Division of Sponsored Research, UF
- 1978-9 Annual Chemistry and Biology Major Awards, Jacksonville University
- 1978 Phi Kappa Phi Honor Society Membership, Jacksonville University

Grant Review (ad hoc)

- 2012 Rhode Island Research Alliance, AAAS Research Competitiveness Program
- 2010 Qatar National Research Fund
- 2010 American Geriatrics Society Foundation Research Scholar Award
- 2009 US Civilian Research & Development Foundation
- 2008 ETH Zurich Research Commission
- 2005-07 National Science Foundation
- 2005-06 American Heart Association
- 1997-01 American Cancer Society

National Service

- 2012-16 USMLE Step 1 Physiology and Cell Biology Test Material Development Committee, meetings and workshop, National Board of Medical Examiners, Philadelphia, PA

University Service

- 2019-20 Graduate Curriculum Committee, COM Representative
- 2018 Summer Health Professions Education Program, Reviewer
- 2017-8 Graduate Student Research Day, Poster Sessions, Judge
- 2015 Provost's Task Force on College of Medicine Undergraduate Courses, Member
- 2013-14 University Curriculum Committee, COM Representative

College Service

- 2021- Exam Subcommittee, PESA Committee, MD Program, Co-Chair
- 2021- Biochemistry Content Thread, Preclerkship Curriculum, Leader
- 2018- Education Initiative Award Committee, PhD Program, Judge
- 2017- Program Evaluation and Student Assessment Committee, MD Program, Member
- 2015- ICBR Monoclonal Antibody Core Laboratory Advisory Group, Member
- 2021 Item Writing Workshop, Course Directors Retreat, MD Program, Co-Leader
- 2021 Task Force Committees (Assessment, Biochemistry, IT), MD Program, Member
- 2017-21 Preclerkship Course Directors Committee, MD Program, Chair
- 2017-21 Curriculum Committee, MD Program, Member
- 2020 Medical Student Research Program, Project / Poster Judge
- 2018-20 Medical Student Interview Committee, MD Program, Member
- 2018-20 Academic Support Program Committee, MD Program, Chair
- 2018 Grade Grievance Committee (ad hoc), MD Program, Chair
- 2014-15 Admissions Committee, PhD Program, Member
- 2014-15 MCB Concentration, PhD Program, Co-director
- 2013-15 LCME Accreditation Committees on Education Program and Medical Students, Member
- 2013-15 Graduate Student Research Competition, MCB Concentration, Judge
- 2011-12 Preclerkship Curriculum Design Committee, MD Program, Member
- 2011-18 Graduate Student Interview Committee (ad hoc), MCB Concentration, PhD Program
- 2010 Search Committee, Director of School of Physicians Assistant Studies, Member
- 2009-12 Medical Student Admissions Committee, MD Program, Member
- 2008-12 Graduate Student Research Competition, MCB Concentration, PhD Program, Judge
- 1999-00 Faculty Council, Departmental Representative
- 1999-00 Admissions Committee, PhD Program, Member
- 1995 Medical Guild Graduate Student Research Competition, PhD Program, Judge

- 1995-8 Selection Committee, Joseph and Leila Applebaum Visiting Professorship, Member
- 1995-6 Core Curriculum Design Committee, PhD Program, Member
- 1995-6 Advisory Board, Associate Dean for Graduate Education, Member

Department Service

- 2021 Search Committee, Assistant to Full Professor, Member
- 2020 Admissions Committee, Anatomical Sciences Education Programs, Member
- 2018 Florida Translational Cell Biology Symposium, Poster Session, Judge
- 2016-18 Educational Programs Committee, Member
- 2015-17 Search Committee, Associate or Full Professor, Member
- 2015 Search Committee, Assistant Professor, Member
- 2013-14 Search Committee, Assistant to Full Professor, Chair
- 2013-14 Search Committee, Assistant Scientist, Chair
- 2005-20 Departmental Retreat, Biennial, Organizer
- 2009 Search Committee, Lecturer, Chair
- 1994-5 Search Committee, Chair of Department of Anatomy and Cell Biology, Member
- 1992-5 Graduate Admissions Committee, Department of Anatomy and Cell Biology, Member

PhD Committees

Chair or Co-chair

- 2010 Arnold Seo, Department of Aging and Geriatric Research (co-chair)
- 2004 Alaric Falcón, Department of Anatomy and Cell Biology
- 2003 J. Michael Thomson, Department of Anatomy and Cell Biology (co-chair)
- 1998 Pei Wu, Department of Anatomy and Cell Biology
- 1997 Bo Hong, Department of Anatomy and Cell Biology

Member

- Current Bonnie N. C. President, Medical Physics Graduate Program
- Current Camilo M. Correa Alfonso, Medical Physics Graduate Program
- Current Sean J. Domal, Medical Physics Graduate Program
- Current Darius Ramkhalawan, Department of Anatomy and Cell Biology
- 2020 Kristen Skruber, Department of Anatomy and Cell Biology
- 2020 Justin Brown, Medical Physics Graduate Program
- 2020 John Calise, Department of Oral Biology
- 2020 Rola Zeidan, Department of Physiological Sciences
- 2019 Colin Paulbeck, Department of Biomedical Engineering
- 2019 Emily Brown, Department of Ophthalmology
- 2017 Allyson Shea, Department of Anatomy and Cell Biology
- 2017 William Godwin, Department of Biomedical Engineering
- 2016 Bryan Schwarz, Department of Biomedical Engineering
- 2016 Daniel Shabashvili, Department of Anatomy and Cell Biology
- 2015 Amy Geyer, Department of Biomedical Engineering
- 2015 Apoorva Mohan, Department of Molecular Genetics and Microbiology
- 2014 Patrick Thiaville, Department of Microbiology and Cell Science
- 2013 Jaclyn Hayner, Department of Biochemistry and Molecular Biology
- 2013 Daniel Long, Department of Biomedical Engineering
- 2013 Matthew R. Maynard, Department of Nuclear and Radiological Engineering
- 2012 Debapriya Dutta, Department of Aging and Geriatric Research
- 2011 Daein Kim, Department of Anatomy and Cell Biology
- 2010 Santhi Pondugula, Department of Biochemistry and Molecular Biology
- 2010 Judy Hwang, Department of Aging and Geriatric Research (left program)
- 2009 John Domsic, Department of Biochemistry and Molecular Biology
- 2009 Deanna H. Pafundi, Department of Nuclear and Radiological Engineering
- 2009 Qian Liu, Department of Anatomy and Cell Biology

2008 Santiago Aleixo, Department of Anatomy and Cell Biology
 2008 Shane Claggett, Department of Biochemistry and Molecular Biology
 2007 Melissa Crisp, Department of Anatomy and Cell Biology
 2007 Yuan, Department of Molecular Genetics and Microbiology
 2007 Laura A. Schroder, Department of Anatomy and Cell Biology
 2006 Cuong Nguyen, Department of Pathology, Immunology, and Laboratory Medicine
 2005 Slim Sassi, Department of Chemistry
 2005 Lee Kaplan, Department of Molecular Genetics and Microbiology
 2001 Vivian Fincher, Department of Horticultural Sciences
 2001 Lisa M. Curtis, Department of Anatomy and Cell Biology
 2000 Kristin L. Moon, Department of Molecular Genetics and Microbiology
 1999 Pierre-Yves Musy, Department of Molecular Genetics and Microbiology
 1999 James L. Gardner, Department of Biochemistry and Molecular Biology
 1998 Weiping Yuan, Department of Anatomy and Cell Biology
 1998 Jill W. Miller, Department of Molecular Genetics and Microbiology
 1997 Mary C. Bowman, Department of Molecular Genetics and Microbiology
 1996 Carolyn M. Drazinic, Department of Molecular Genetics and Microbiology
 1996 Lucia F. Aleixo, Department of Pathology and Laboratory Medicine
 1995 James T. Anderson, Department of Molecular Genetics and Microbiology

MS Committees

Member

2022 Benjamin Lewis, Molecular Cell Biology Graduate Program
 2020 Maria Martinelli, Genetics and Genomics Graduate Program
 2010 Nelia Sanchez-Monreal Long, Department of Nuclear and Radiological Engineering
 2009 Matthew R. Maynard, Department of Nuclear and Radiological Engineering
 2002 Tina Chang, Department of Anatomy and Cell Biology

Postdoctoral Research Supervision

1997-00 Ke Wu
 1993-97 J. Scott Brockenbrough
 1993-94 Shaoping Chen
 1992-93 Andrea Hofig

Technician Research Supervision

2005-08 Michael Wood
 1997-98 Julie Wan-Young

Undergraduate Research Supervision (with postgraduate education after UF)

| | | |
|------|---|--------------------------|
| 2013 | Michael Leonard | MS, UCLA |
| 2013 | Amanda Hanvivatpong, Honor Student | Healthcare Business, FL |
| 2013 | Veronica Swanberg, Honor Student | |
| 2012 | Kyle Losin, Honor Student | DDS student, UF |
| 2010 | Roy Ferraiuolo, Honor Student with Thesis | MD student, UF |
| 2010 | Bonnie Vu, Honor Student with Thesis | |
| 2010 | Michelle Maraffini, Honor Student with Thesis | PhD student, Cal State |
| 2010 | Laura Fishwick, Honor Student with Thesis | JD student, Harvard |
| 2008 | Doreen Hu | PA student, Arcadia Univ |
| 2007 | Amelia Kaywell, Honor Student with Thesis | MD student, UF |
| 2007 | Christine Kirlew, Honor Student | MD student, Vanderbilt |
| 2007 | Jennifer Westcott | DDS, UF |
| 2004 | Natalie Rios, University Scholar, Honor Student with Thesis | PhD, UNC Chapel Hill |
| 2004 | Diego Ayo, Honor Student | MD, NYU |

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| 2003 | Joan M. González, NIH Short-term Research Training | |
| 2002 | Fernando Castro, University Scholar, Honor Student | MD, UF |
| 2000 | Catherine Avery-Jones, Honor Student with Thesis | |
| 2000 | Dana Sacco, Honor Student with Thesis | MD, Washington Univ |
| 1999 | Catherine Roberts, NIH Short-term Research Training | |
| 1998 | Jennifer Dawe, Exchange Student, University of Bath, UK | |
| 1997 | Angela Metcalfe, Exchange Student, University of Bath, UK | |
| 1995 | Joanne Dove, Honor Student with Thesis | PhD, Berkeley |
| 1994 | Vishal Gupta, Honor Student with Thesis | MD, UF |
| 1993 | Ralph Doerner, Honor Student with Thesis | PA, UCF |

Medical Student Research Advisement

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| 2013 | Tene Sablo, Medical Student Research Program (co-mentor) |
| 2013 | Ella Uwaibi, Medical Student Research Program (co-mentor) |
| 2011 | Michael Armbruster, Medical Student Research Program |

Journal Review (61 reviews)

Aging Cell, Autophagy, EMBO J, Experimental Gerontology, FEMS Yeast Research, J Biological Chemistry, J Cellular Biochemistry, J Cell Biology, J Cell Science, J Eukaryotic Microbiology, J Molecular Biology, Medical Science Educator, Molecular and Cellular Biology, Molecular Biology of the Cell, Nucleic Acids Research, PLoS Genetics, PLoS ONE, Rejuvenation Research, Yeast

Abstract Review

2012, 19 International Association of Medical Science Educators, Annual Meetings

Faculty Mentoring

2005-15 Mentor, 1-2 tenure-track and 2-3 non-tenure track faculty members annually

Professional Societies

American Association for the Advancement of Science
American Society for Cell Biology

Patents

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| 1998 | Monoclonal antibody to nucleolar protein, patent number 5811247 |
| 1994 | Human fibrillar nucleic acid sequence, patent number 5310892 |

Invited Talks (selected)

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| 2011 | "Aging in post-mitotic cells - lessons from yeast," UF Genetics Institute, UF |
| 2010 | "Amino acid homeostasis and aging," Department of Physiological Sciences, UF |
| 2007 | "Aging and autophagy in yeast," Department of Microbiology and Cell Science, UF |
| 2005 | "How do cells age?" Aging and Rehabilitation Seminar Series, University of Florida |
| 2000 | "Nop12p is required for pre-25S rRNA processing during cold stress," Fifth International Conference on Ribosome Biogenesis and Nucleolar Function, Lake Tahoe, California. |
| 2000 | "Mechanisms of rRNA processing and modification," Department of Pathology and Laboratory Medicine, University of Cincinnati (host: David Askew) |
| 1998 | "Mechanisms of ribosomal RNA processing," Department of Biochemistry and Molecular Biology, University of Georgia (host: Michael Terns) |
| 1998 | "Ribosomal RNA synthesis and processing," Department of Biological Sciences, University of Maryland, Baltimore County (host: Lasse Lindahl) |
| 1997 | "A novel essential nucleolar protein required for 18S rRNA and 40S ribosomal subunit synthesis in <i>Saccharomyces cerevisiae</i> ," Third International Conference on Ribosome Biogenesis and Nucleolar Function, Noordwijkerhout, Netherlands |

Visiting Positions

2019 Visiting Lecturer, Ross University School of Medicine, Bridgetown, Barbados

Company

2011- Reveal Bioscience LLC, registered agent and manager

Consulting

2021- Yeast molecular genetics (e.g., biopharma litigation)

Courses

2019 Developing Medical Educators of the 21st Century, San Francisco, CA

Invited Publications (*corresponding author)

1. **Aris, JP,*** and G Blobel. 1991. The isolation of yeast nuclei. *Methods Enzymol* (Guthrie & Fink, eds) 194:735-749.
2. Dove, JE, JS Brockenbrough, and **JP Aris.*** 1998. Isolation of nuclei and nucleoli from the yeast *Saccharomyces cerevisiae*. (M. Berrios, ed) *Methods Cell Biol* 53:33-46.
3. Dunn Jr,* WA, LA Schroder, **JP Aris**. 2013. Historical overview of autophagy. *Autophagy and Cancer*, Current Cancer Research (vol 8), H-G Wang, Ed, Springer, NY.

Refereed Publications (*corresponding author)

1. **Aris,* JP**, AD Eisemann, and L Moulton. 1982. The occurrence of *Pugettia richii* (Crustacea: Decapoda) on *Cystoseira osmundacea* follows a diel pattern. *Bulletin Marine Sci* 32:243-249.
2. **Aris, JP**, and RD Simoni.* 1983. Cross-linking and labeling of the *Escherichia coli* F₁F₀-ATP synthase reveal a compact hydrophilic portion of F₀ close to an F₁ catalytic subunit. *J Biol Chem* 258:14599-14609.
3. **Aris, JP**, DJ Klionsky, and RD Simoni.* 1985. The F₀ subunits of the *Escherichia coli* F₁F₀-ATP synthase are sufficient to form a functional proton pore. *J Biol Chem* 260:11207-11215.
4. **Aris, JP**, and RD Simoni.* 1985. The β subunit of the *Escherichia coli* ATP synthase exhibits a tight membrane binding property. *Biochem Biophys Res Commun* 128:155-162.
5. **Aris, JP**, and G Blobel.* 1988. Identification and characterization of a yeast nucleolar protein that is similar to a rat liver nucleolar protein. *J Cell Biol* 107:17-31.
6. **Aris, JP**, and G Blobel.* 1989. Yeast nuclear envelope proteins cross react with an antibody against mammalian pore complex proteins. *J Cell Biol* 108:2059-2067.
7. Henríquez, R, G Blobel, and **JP Aris.*** 1990. Isolation and sequencing of *NOP1*: a yeast gene encoding a nucleolar protein homologous to a human autoimmune antigen. *J Biol Chem* 265:2209-2215.
8. **Aris, JP**, and G Blobel.* 1991. cDNA cloning and sequencing of human fibrillarin, a conserved nucleolar protein recognized by autoimmune antisera. *Proc Natl Acad Sci USA* 88:931-935.
9. **Aris, JP**, PV Basta, WD Holmes, LM Ballas, C Moomaw, NB Rankl, G Blobel, CR Loomis, and D J. Burns.* 1993. Molecular and biochemical characterization of a recombinant human PKC-delta family member. *Biochim Biophys Acta* 1174:171-181.
10. Monestier,* M, MJ Losman, KE Novick, and **JP Aris**. 1994. Molecular analysis of mercury-induced anti-nucleolar antibodies in H-2^S mice. *J Immunol* 151:667-75.
11. deBeus, E, JS Brockenbrough, B Hong, and **JP Aris.*** 1994. Yeast *NOP2* encodes an essential nucleolar protein with homology to a human proliferation marker. *J Cell Biol* 127:1799-1813.
12. Hong, B., JS Brockenbrough, P Wu, and **JP Aris.*** 1997. Nop2p is required for pre-rRNA processing and 60S ribosome subunit synthesis in yeast. *Mol Cell Biol* 17:378-388.
13. Zimowska, G, **JP Aris**, and MR Paddy.* 1997. A *Drosophila* Tpr protein homolog is localized both in the extrachromosomal channel network and to nuclear pore complexes. *J Cell Sci* 110:927-944.
14. Chen, S, JE Dove, JS Brockenbrough, and **JP Aris.*** 1997. Homocitrate synthase is located in the nucleus in the yeast *Saccharomyces cerevisiae*. *J Biol Chem* 272:10839-10846.

15. Wu, P, JS Brockenbrough, A Metcalfe, S Chen, and **JP Aris**.* 1998. Nop5p is a small nucleolar ribonucleoprotein component required for pre-18S rRNA processing in yeast. *J Biol Chem* 273:16453-16463.
16. Wu, P, JS Brockenbrough, MR Paddy, and **JP Aris**.* 1998. *NCL1*, a novel gene for a non-essential nuclear protein in *Saccharomyces cerevisiae*. *Gene* 220:109-117.
17. Oakes, ML, **JP Aris**, JS Brockenbrough, H Wai, L Vu, and M Nomura.* 1998. Mutational analysis of the structure and localization of the nucleolus in the yeast *Saccharomyces cerevisiae*. *J Cell Biol* 143:23-34.
18. Tolerico, LH, AL Benko, **JP Aris**, DR Stanford, NC Martin, and AK Hopper.* 1999. *Saccharomyces cerevisiae* Mod5p-II contains sequences antagonistic for nuclear and cytosolic locations. *Genetics* 151:57-75.
19. Oakes, ML, I Siddiqi, L Vu, **JP Aris**, and M Nomura.* 1999. Transcription factor UAF, expansion and contraction of ribosomal DNA (rDNA) repeats, and RNA polymerase switch in transcription of yeast rDNA. *Mol Cell Biol* 19:8559-8569.
20. Wu, K, JH Dawe, **JP Aris**.* 2000. Expression and subcellular localization of a membrane protein related to Hsp30p in *Saccharomyces cerevisiae*. *Biochim Biophys Acta* 1463:477-482.
21. Nelson, SA, **JP Aris**, BKR Patel, and WJ LaRoche.* 2000. Multiple growth factor transcriptional activation of *SAN5*, a murine early response gene that complements a lethal defect in yeast ribosome biogenesis. *J Biol Chem* 275:13835-13841.
22. Fahrenkrog, B, **JP Aris**, EC Hurt, N Pante, and U Aebi.* 2000. Comparative spatial localization of protein-A-tagged and authentic yeast nuclear pore complex proteins by immunogold electron microscopy. *J. Struct Biol* 129:295-305.
23. Hong, B, K Wu, JS Brockenbrough, P Wu, and **JP Aris**.* 2001. Temperature sensitive *nop2* alleles defective in synthesis of 25S rRNA and large ribosomal subunits in *Saccharomyces cerevisiae*. *Nucleic Acids Res* 29:2927-37.
24. Wu, K, P Wu, and **JP Aris**.* 2001. Nucleolar protein Nop12p participates in synthesis of 25S rRNA in *Saccharomyces cerevisiae*. *Nucleic Acids Res* 29:2938-49.
25. Lu, M, S Vergara, L Zhang, LS Holliday, **JP Aris**, and SL Gluck.* 2002. The amino-terminal domain of the E subunit of V-ATPase interacts with the H subunit and is required for V-ATPase function. *J Biol Chem* 277:38409-15.
26. Falcón, AA, and **JP Aris**.* 2003. Plasmid accumulation reduces life span in *Saccharomyces cerevisiae*. *J Biol Chem* 278:41607-41617.
27. Thomson, JM, EA Gaucher, MF Burgan, D DeKee, T. Li, **JP Aris**, and SA Benner.* 2005. Resurrecting ancestral alcohol dehydrogenases from yeast. *Nat Genet* 37:630-635.
28. Falcon, AA, N Rios, and **JP Aris**.* 2005. 2-micron circle plasmids do not reduce yeast life span. *FEMS Microbiol Let* 250:245-251.
29. Oakes, ML, I Siddiqi, SL French, L Vu, M Sato, **JP Aris**, AL Beyer, and M Nomura*. 2006. Role of histone deacetylase Rpd3 in regulating rDNA transcription and nucleolar structure in yeast. *Mol Cell Biol* 26:3889-3901.
30. Urbinati, CR, GB Gonsalvez, **JP Aris** and RM Long.* 2006. Loc1p is required for efficient assembly and nuclear export of the 60S ribosomal subunit. *Mol Genet Genomics* 276:369-377.
31. Swanson*, MS, and **JP Aris**. 2008. Post-transcriptional control: nuclear RNA processing. In *Inborn Errors of Development*, 2nd Edition, Oxford University Press. Oxford, UK, pp 1108-1125.
32. Bhabhra, R, DL Richie, HS Kim, WC Nierman, J Fortwendel, **JP Aris**, JC Rhodes, and DS Askew.* 2008. Impaired ribosome biogenesis disrupts integration between morphogenesis and nuclear duplication during the germination of *Aspergillus fumigatus*. *Eukaryotic Cell* 7:575-583.
33. Pafundi, D, C Lee, . Watchman, V Bourke, **J Aris**, N Shagina, J Harrison, T Fell, and W Bolch.* An image-based skeletal tissue model for the ICRP reference newborn. 2009. *Phys Med Biol* 54:4497-4531.
34. Alvers, AL, LK Fishwick, MS Wood, D Hu, HS Chung, WA Dunn Jr, and **JP Aris**.* 2009. Autophagy and amino acid homeostasis are required for chronological longevity in *Saccharomyces cerevisiae*. *Aging Cell* 8:353-369.

35. Alvers, AL, MS Wood, D Hu, AC Kaywell, WA Dunn Jr, and **JP Aris**.* 2009. Autophagy is required for extension of yeast chronological life span by rapamycin. *Autophagy* 5:847-9.
36. Falcon, AA, S Chen, MS Wood, and **JP Aris**.* 2010. Acetyl-coenzyme A synthetase 2 is a nuclear protein required for replicative longevity in *Saccharomyces cerevisiae*. *Mol Cell Biochem* 333:99-108.
37. **Aris**,* **JP**, MC Elios, E Bimstein, SM Wallet, S Cha, KN Lakshmyya, and J Katz.* 2010. Gingival RAGE expression in calorie restricted versus ad libitum fed rats. *J Periodontology* 81:1481-7.
38. Seo, AY, A-M Joseph, D Dutta, JCY Hwang, **JP Aris***, C Leeuwenburgh. 2010. New insights into the role of mitochondria in aging: mitochondrial dynamics and more. *J Cell Sci* 123:2533-42.
39. Maynard, MR, JW Geyer, **JP Aris**, RY Shifrin, W Bolch.* 2011. The UF family of hybrid phantoms of the developing human fetus for computational radiation dosimetry. *Phys Med Biol* 56:4839-4879.
40. **Aris**,* **JP**, LK Fishwick, ML Marraffini, AY Seo, C Leeuwenburgh, and WA Dunn Jr. 2012. Amino acid homeostasis and chronological longevity in *Saccharomyces cerevisiae*. In *Aging Research in Yeast*. M Brietenbach, P Laun, SM Jazwinski, Eds. Springer, NY. *Subcell Biochem.* 57:161-86.
41. **Aris**,* **JP**, AL Alvers, RA Ferraiuolo, LK Fishwick, A Hanvivatpong, D Hu, C Kirlew, MT Leonard, KJ Losin, M Marraffini, AY Seo, V Swanberg, JL Westcott, MS Wood, C Leeuwenburgh, and WA Dunn Jr. 2013. Autophagy and leucine promote chronological longevity and respiration proficiency during calorie restriction in yeast. *Experimental Gerontology* 48:1107-1119.
42. Torres-Machorro AL, **JP Aris**, L Pillus.* 2015. A moonlighting metabolic protein influences repair at DNA double-stranded breaks. *Nucleic Acids Res.* 43:1646-58.
43. Brown JL, Sexton-Stallone B, Li Y, Frey EC, Treves ST, Fahey FH, Plyku D, Cao X, Choi C, Kim CH, Sgouros G, **Aris JP**, Bolch WE.* 2020. Dosimetric considerations of ^{99m}Tc-MDP uptake within the epiphyseal plates of the long bones of pediatric patients. *Phys Med Biol.* 65:235025.

Abstracts (*corresponding author)

1. **Aris, JP**, and RD Simoni.* 1983. Structure and assembly of the F₁F₀ ATPase of *E. coli*. Gordon Research Conference on Energy Coupling Mechanisms.
2. **Aris, JP**, and G Blobel.* 1989. Yeast nuclear proteins share epitopes with rat nuclear pore complex proteins. Nuclear Transport Symposium. Annual ASCB Meeting.
3. **Aris, JP**, E deBeus and G Blobel.* 1993. *NOP2* encodes a proliferation associated nucleolar protein essential for cell viability. *Mol Biol Cell (Supplement)* 4S:82a.
4. Zimowska, G, **JP Aris**, H Saumweber, and MR Paddy.* 1994. Structural and molecular studies of a likely *Drosophila* nuclear skeletal component showing broad sequence homology to human TPR. *Mol Biol Cell (Supplement)* 5S:342a.
5. Hong, B, JS Brockenbrough, P Wu, and **JP Aris**.* 1995. The *NOP2* gene product is required for pre-rRNA processing and 60S ribosomal subunit synthesis in yeast. *Mol Biol Cell (Supplement)* 6S:198a.
6. Paddy*, MR, **JP Aris**, H Saumweber, and G Zimowska-Handler. 1995. Structural and molecular studies of a likely *Drosophila* nuclear skeletal component showing broad sequence homology to human TPR. *J Cellular Biochem.* 21B:144.
7. 5. Zimowska, G, **JP. Aris**, H Saumweber, and MR Paddy*. 1995. Integrated molecular, structural, and genetic studies of a *Drosophila* homologue of the human/rat TPR protein showing internal nuclear localization. *Mol Biol Cell (Supplement)* 6S:424a.
8. Hong, B, P Wu, JS Brockenbrough, and **JP Aris**.* 1996. Temperature sensitive alleles of *NOP2*. *Mol Biol Cell (Supplement)* 7S:99a.
9. Zimowska, G, **JP Aris**, H Saumweber, and MR Paddy.* 1996. Bx34: A large, filamentous protein localized to the extrachromosomal channel network and nuclear pore complexes in *Drosophila*. *Mol Biol Cell (Supplement)* 7S:99a.
10. Green, CL, **JP Aris**, GS Bennett.* 1996. Isolation of a cDNA encoding a chicken brain casein kinase Ia. *Mol Biol Cell (Supplement)* 7S:360a.

11. Wu, P, JS Brockenbrough, and **JP Aris**.* 1997. A novel essential nucleolar protein required for 18S rRNA and 40S ribosomal subunit synthesis in *Saccharomyces cerevisiae*. *Mol Biol Cell (Supplement)* 8S:100a.
12. Wu, P, JS Brockenbrough, and **JP Aris**.* 1997. A novel essential nucleolar protein required for 18S rRNA and 40S ribosomal subunit synthesis in *S. cerevisiae*. Third International Conference on Ribosome Biogenesis and Nucleolar Function. Noordwijkerhout, Netherlands. p. 75.
13. Oakes, M, **JP Aris**, JS Brockenbrough, H Wai, L Vu, and M Nomura.* 1997. Mutational analysis of nucleolar structures in the yeast *Saccharomyces cerevisiae*. Third International Conference on Ribosome Biogenesis and Nucleolar Function. Noordwijkerhout, Netherlands. p. 106.
14. Wu, K, P Wu, and **JP Aris**.* 2000. Nop12p is required for pre-25S rRNA processing during cold stress. Fifth International Conference on Ribosome Biogenesis and Nucleolar Function. Lake Tahoe, California. p. 2.
15. Thomson, JM, **JP Aris**, and SA Benner.* 2001. Experimental paleobiochemistry: understanding major transitions in life on earth. *Astrobiology* 1:314.
16. Falcon, AA, and **JP Aris**.* 2002. Plasmids reduce yeast life span. *Molecular Genetics of Aging*. Cold Spring Harbor Laboratory, NY. p. 42.
17. Falcón, AA, DM Ayo, N Rios, and **JP Aris**.* 2004. DNA episomes and replicative senescence in *S. cerevisiae*. American Aging Association annual meeting. St. Petersburg, FL.
18. Falcón, AA, DM Ayo, N Rios, and **JP Aris**.* 2004. Episomes and replicative senescence in yeast. NIA summer training course in experimental aging research. Guadalupe River Ranch, TX.
19. Falcón, AA, S Chen, MS Wood, and **JP Aris**.* 2006. *ACS2* encodes a nuclear protein required for normal replicative life span in *Saccharomyces cerevisiae*. *Molecular Genetics of Aging*. Cold Spring Harbor Laboratory, NY. p. 55.
20. Fishwick, LK, and **JP Aris**.* 2008. Shift in carbon balance extends chronological life-span in *S. cerevisiae*. Florida Annual Meeting and Exposition, American Chemical Society, Kissimmee, FL, May 8-10, 2008.
21. Alvers, AL, MS Wood, D Hu, LK Fishwick, HS Chung, WA Dunn, Jr, and **JP Aris**.* 2008. Autophagy and amino acid homeostasis promote chronological longevity in *Saccharomyces cerevisiae*. *Molecular Genetics of Aging*. Cold Spring Harbor Laboratory, NY. p. 31.
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