Curriculum Vitae October 2023

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: Robert 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

2023-28	Co-I (10% effort), NIH NCI P01, Imaging, Dosimetry, and Radiobiology in Support of
	Optimal Alpha-Emitter Radiopharmaceutical Therapy., PI: George Sgouros (Johns
	Hopkins), Project PI: Wesley Bolch (UF)

2022-27	Co-I (10% effort), NIH NIAID P01, Deployable Software for the Rapid Assessment of Lung
	Dose Following Radionuclide Intakes., PI: Gayle Woloschak (Northwestern), Project 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), 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
- 1994-98 Co-PI (10% effort) NIH R01, PI: Gudrun S. Bennett, *Neurofilament Metabolism in Embryonic and Mature Neurons*

Course Director

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Fall	Foundations of Medicine	Director for 12-week course for first year MD students
Spring	Histology	Director for 8-week course for first year DMD students
	Human Histology	Director for 15-week course for undergraduate students

Awards and Honors

2006-23	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	2012	2012
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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

2022-	Exam Review Committee, MD Program, Preclerkship Curriculum, Co-chair
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2020- Medical Student Research Program, Project / Poster Judge
 2018- Education Initiative Award Committee, PhD Program, Judge

2017- Program Evaluation and Student Assessment Committee, MD Program, Member

2015-23 ICBR Monoclonal Antibody Core Laboratory Advisory Group, Member

2022 Remediation Task Force, Course Directors Committee, Member 2021-22 Biochemistry Content Thread, Preclerkship Curriculum, Leader 2021 Exam Subcommittee, PESA Committee, MD Program, Co-Chair

2021 Item Writing Workshop, Course Directors Retreat, MD Program, Co-Leader

2021 Task Force Committees (Assessment, Biochemistry, IT), MD Program, Member

2017-21 Curriculum Committee, MD Program, Member

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 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 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 1995-8 1995-6 1995-6	Medical Guild Graduate Student Research Competition, PhD Program, Judge Selection Committee, Joseph and Leila Applebaum Visiting Professorship, Member Core Curriculum Design Committee, PhD Program, Member Advisory Board, Associate Dean for Graduate Education, Member
Departme 2022- 2021- 2020- 2018 2016-18 2015-17 2015 2013-14 2013-14 2005-20 2009 1994-5 1992-5	Diversity Liaison Search Committees, Assistant to Full Professor, Member, Chair Admissions Committee, Anatomical Sciences Education PhD Program, Member Florida Translational Cell Biology Symposium, Poster Session, Judge Educational Programs Committee, Member Search Committees, Associate or Full Professor, Member Search Committee, Assistant Professor, Member Search Committee, Assistant to Full Professor, Chair Search Committee, Assistant Scientist, Chair Departmental Retreat, Biennial, Organizer Search Committee, Lecturer, Chair Search Committee, Chair, Member Graduate Admissions Committee, Member
PhD Com Chair or C 2010 2004 2003 1998 1997 Member Current 2022 2022 2020 2020 2020 2019 2019 2017 2017 2016 2015 2015 2014 2013 2013 2013 2013 2011 2010	
2010 2010 2009	Santhi Pondugula, Department of Biochemistry and Molecular Biology Judy Hwang, Department of Aging and Geriatric Research (left program) 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**

<u>Member</u>	
2023	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)

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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

Natalie Rios, University Scholar, Honor Student with Thesis	PhD, UNC Chapel Hill
Diego Ayo, Honor Student	MD, NYU
Joan M. González, NIH Short-term Research Training	
Fernando Castro, University Scholar, Honor Student	MD, UF
Catherine Avery-Jones, Honor Student with Thesis	
Dana Sacco, Honor Student with Thesis	MD, Washington Univ
Catherine Roberts, NIH Short-term Research Training	
Jennifer Dawe, Exchange Student, University of Bath, UK	
Angela Metcalfe, Exchange Student, University of Bath, UK	
Joanne Dove, Honor Student with Thesis	PhD, Berkeley
Vishal Gupta, Honor Student with Thesis	MD, UF
Ralph Doerner, Honor Student with Thesis	PA, UCF
	Diego Ayo, Honor Student Joan M. González, NIH Short-term Research Training Fernando Castro, University Scholar, Honor Student Catherine Avery-Jones, Honor Student with Thesis Dana Sacco, Honor Student with Thesis Catherine Roberts, NIH Short-term Research Training Jennifer Dawe, Exchange Student, University of Bath, UK Angela Metcalfe, Exchange Student, University of Bath, UK Joanne Dove, Honor Student with Thesis Vishal Gupta, Honor Student with Thesis

#### **Medical Student Research Advisement**

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**

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

## **Visiting Positions**

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

## Company

2011- Reveal Bioscience LLC, registered agent and manager

# Consulting

2021-22 Yeast molecular genetics (e.g., biopharma litigation)

#### Course

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

#### Workshops

2023	Item	Writing,	College	of P	harm	acy, l	JF
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2021 Item Writing, Course Directors Committee, College of Medicine, UF

## **Invited Talks** (selected)

- 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)
- "Mechanisms of ribosomal RNA processing," Department of Biochemistry and Molecular Biology, University of Georgia (host: Michael Terns)
- "Ribosomal RNA synthesis and processing," Department of Biological Sciences, University of Maryland, Baltimore County (host: Lasse Lindahl)
- "A novel essential nucleolar protein required for 18S rRNA and 40S ribosomal subunit synthesis in *Saccharomyces cerevisiae*," Third International Conference on Ribosome Biogenesis and Nucleolar Function, Noordwijkerhout, Netherlands

# **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 F_o subunits of the *Escherichia coli* F₁F_o-ATP synthase are sufficient to form a functional proton pore. *J Biol Chem* 260:11207-11215.
- 4. **Aris, JP**, and RD Simoni.* 1985. The ß 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 LaRochelle.* 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, C 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. PMID 19556686.
- 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. PMID 21765203.
- 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.
- 41. Klionsky DJ, et al (1269 authors). Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*. 2012. **8**:445-544 PMID 22966490
- 42. **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.
- 43. 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.
- 44. 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.
- 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. 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.
- 22. Alvers, AL, AY Seo, MS Wood, JL Westcott, C Kirlew, LK Fishwick, AC Kaywell, WA Dunn, Jr, and **JP Aris.*** 2008. Calorie restriction affects mitochondrial structure and function during chronological aging in *Saccharomyces cerevisiae*. 2008. Molecular Genetics of Aging, Cold Spring Harbor Laboratory, NY. p. 32.
- 23. Herr, N, MS Wood, and JP Aris.* 2008. The Parcae: the fates of young cells depend on the replicative age of mother cells in *Saccharomyces cerevisiae*. Molecular Genetics of Aging, Cold Spring Harbor Laboratory, NY. p. 129.
- 24. Seo, AY, HS Chung, A Picca, J Xu, WA Dunn, Jr, C Leeuwenburgh, and **JP Aris**.* 2009. Enhanced mitochondrial fusion extends chronological longevity in *Saccharomyces cerevisiae*. Charleston Conference on Mitochondrial Physiology and Pathobiology, Isle of Palms, SC.
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