

THURSDAY 12, OCTOBER 2023

Seventeenth Fellows Forum

The Bone Cells: Osteoblasts, Osteoclasts, and Osteocytes

Session: Breakout session #1

Time: 10:30 AM-11:15 AM

Location: TBD/Vancouver Convention Centre

Presenter: Teresita Bellido

The Bone Cells: Osteoblasts, Osteoclasts, and Osteocytes

Session: Breakout session #1

Time: 3:45 PM-4:30 PM

Location: TBD/Vancouver Convention Centre

Presenter: Teresita Bellido

In vivo stimulation of *Tfeb*, a master regulator of autophagy and lysosomal biogenesis, via in vivo CRISPR activation increases bone mass and strength

Session: Poster Session

Time: 6:00 PM-7:45 PM

Location: TBD/Vancouver Convention Centre

Presenter: Alicen James (Onal lab) (EFF Travel Award)

Mitochondria dysfunction in osteoblast lineage cells does not impact the bone adaptive response to mechanical loading

Session: Poster Session

Time: 6:00 PM-7:45 PM

Location: TBD/Vancouver Convention Centre

Presenter: Ana Resende-Coelho (Almeida lab) (EFF Travel Award)

Attenuation of NAD⁺ Metabolism in Osteoclasts Contributes to the Bone Protective Effects of Estrogens

Session: Poster Session

Time: 6:00 PM-7:45 PM

Location: TBD/Vancouver Convention Centre

Presenter: Adriana Carvalho (Kim & Almeida labs) (EFF Travel Award)

THURSDAY 12, OCTOBER 2023

ASBMR 2023 Symposium: Osteocytes in Bone Health and Disease and as Therapeutic Target Cells

*Organized by Teresita Bellido

Mechanotransduction by the Piezo1 pathway in osteocytes

Session: Osteocytes and Mechanobiology

Time: 8:15 AM-9:45 AM

Location: TBD/Vancouver Convention Centre

Presenter: Jinhu Xiong

Bidirectional signaling between osteocytes and myeloma cells

Session: Osteocytes as part of the bone/bone marrow niche

Time: 12:15 PM-1:30 PM

Location: TBD/Vancouver Convention Centre

Presenter: Jesus Delgado-Calle

New osteocyte-targeting genetic approaches with CRISPR interference

Session: New technologies in osteocyte biology

Time: 1:45 PM-3:00 PM

Location: TBD/Vancouver Convention Centre

Presenter: Melda Onal

*Chaired by Charles O'Brien

Session: Effects of Bone Diseases and Medications on Osteocytes

Time: 3:15 PM-4:30 PM

Location: TBD/Vancouver Convention Centre

*Chaired by Amy Sato

In vivo stimulation of *Tfeb*, a master regulator of autophagy and lysosomal biogenesis, via in vivo CRISPR activation increases bone mass and strength

Session: Lunch and Poster Session

Time: 11:15 AM-12:15 PM

Session: Poster Session and Reception

Time: 5:10 PM-6:00 PM

Location: TBD/Vancouver Convention Centre

Presenter: Alicen James (Onal lab)

Lack of osteoblast lineage autophagy does not alter the response to mechanical load

Session: Lunch and Poster Session

Time: 11:15 AM-12:15 PM

Session: Poster Session and Reception

Time: 5:10 PM-6:00 PM

Location: TBD/Vancouver Convention Centre

Presenter: Melda Onal

Metastatic Breast Cancer Cells Induce Osteocyte Senescence Contributing to Osteolytic Bone Destruction

Session: Lunch and Poster Session

Time: 11:15 AM-12:15 PM

Session: Poster Session and Reception

Time: 5:10 PM-6:00 PM

Location: TBD/Vancouver Convention Centre

Presenter: Japneet Kaur (Delgado-Calle lab)

Osteocytes Induce Drug Resistance via the NOTCH3-CXCL12 Signaling Axis in Multiple Myeloma

Session: Lunch and Poster Session

Time: 11:15 AM-12:15 PM

Session: Poster Session and Reception

Time: 5:10 PM-6:00 PM

Location: TBD/Vancouver Convention Centre

Presenter: Hayley Sabol (Delgado-Calle lab)

The MIP-1 α /HMGB1 Signaling Axis Regulates Osteocyte RANKL expression in Multiple Myeloma

Session: Lunch and Poster Session

Time: 11:15 AM-12:15 PM

Session: Poster Session and Reception

Time: 5:10 PM-6:00 PM

Location: TBD/Vancouver Convention Centre

Presenter: Aric Anloague (Delgado-Calle lab)

ASBMR-RBDA Symposium on Rare Bone Diseases: Patients, Clinicians, and Scientists Working Together to Improve Lives

Generation of a Col1a1 conditional knock-in mouse model for the study of osteogenesis imperfecta

Session: Poster Session and Reception

Time: 5:00 PM-6:30 PM

Location: TBD/Vancouver Convention Centre

Presenter: Roy Morello

ASBMR 2023 Annual Meeting

FRIDAY 13, OCTOBER 2023

[1001] Metastatic Breast Cancer Cells Induce Osteocyte Senescence Contributing to Osteolytic Bone Destruction

Session: Oral: Greg Mundy Memorial Session on Bone Cancer and Metastasis

Time: 11:15 AM-11:30 AM

Location: West Ballroom D/Vancouver Convention Centre

Presenter: Japneet Kaur (Delgado-Calle lab) (**Most Outstanding Translational Abstract**)

[1004] Bimodal Bone-Targeted Therapy Repairs Damage Bone and Overcomes Drug Resistance in Multiple Myeloma

Session: Oral: Greg Mundy Memorial Session on Bone Cancer and Metastasis

Time: 12:00 PM-12:15 PM

Location: West Ballroom D/Vancouver Convention Centre

Presenter: Hayley Sabol (Delgado-Calle lab) (**Young Investigator Award**)

[FRI-127] Osteocytes Induce Drug Resistance via the NOTCH3-CXCL12 Signaling Axis in Multiple Myeloma

Session: Oral: Early Career Plenary Poster Spotlight

Time: 05:15 PM-05:18 PM

Location: West Ballroom AB/Vancouver Convention Centre

Presenter: Hayley Sabol (Delgado-Calle lab)

[FRI-312] In vivo stimulation of *Tfeb*, a master regulator of autophagy and lysosomal biogenesis, via in vivo CRISPR activation increases bone mass and strength

Session: Oral: Early Career Plenary Poster Spotlight

Time: 05:36 PM-05:39 PM

Location: West Ballroom AB/Vancouver Convention Centre

Presenter: Alicen James (Onal lab) (**ASBMR Travel Award**)

[FRI-127] Osteocytes Induce Drug Resistance via the NOTCH3-CXCL12 Signaling Axis in Multiple Myeloma

Session: Welcome Reception and Plenary Poster Presentation

Time: 6:00 PM-7:30 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Hayley Sabol (Delgado-Calle lab) (**Plenary Poster**)

[FRI-158] The NAD salvage pathway in osteoblast lineage cells is indispensable for skeletal homeostasis

Session: Welcome Reception and Plenary Poster Presentation

Time: 6:00 PM - 7:30 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Olivia Reyes-Castro (Almeida lab) ([Plenary Poster](#))

[FRI-275] Refining the identity of mesenchymal cell types associated with murine bone

Session: Welcome Reception and Plenary Poster Presentation

Time: 6:00 PM-7:30 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Intawat Nookaew ([Plenary Poster](#))

[FRI-312] In vivo stimulation of *Tfeb*, a master regulator of autophagy and lysosomal biogenesis, via in vivo CRISPR activation increases bone mass and strength

Session: Welcome Reception and Plenary Poster Presentation

Time: 6:00 PM-7:30 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Alicen James (Onal lab) ([Plenary Poster](#)) ([ASBMR Travel Award](#))

[FRI-316] Wnt10b is required for the bone anabolic effect of a natural antibody that blocks oxidized phospholipids.

Session: Welcome Reception and Plenary Poster Presentation

Time: 6:00 PM-7:30 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Elena Ambrogini ([Plenary Poster](#))

[FRI-328] Extrachromosomal circular DNA is produced by bone cells and may regulate physiological and pathological bone remodeling in mice and humans

Session: Welcome Reception and Plenary Poster Presentation

Time: 6:00 PM-7:30 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Kurilung (Nookaew & Delgado-Calle Labs) ([Plenary Poster](#))

SATURDAY 14, OCTOBER 2023

[SAT-275] Refining the identity of mesenchymal cell types associated with murine bone

Session: Welcome Reception and Plenary Poster Presentation

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Intawat Nookaew ([Plenary Poster](#))

[SAT-312] In vivo stimulation of *Tfeb*, a master regulator of autophagy and lysosomal biogenesis, via in vivo CRISPR activation increases bone mass and strength

Session: Poster Session I and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Alicen James (Onal lab) ([Plenary Poster](#)) ([ASBMR Travel Award](#))

[SAT-328] Extrachromosomal circular DNA is produced by bone cells and may regulate physiological and pathological bone remodeling in mice and humans

Session: Poster Session I and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Kurilung (Nookaew & Delgado-Calle labs)

[SAT-369] Lack of osteoblast lineage autophagy does not alter the response to mechanical load

Session: Poster Session I and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Melda Onal (**ASBMR Travel Award**)

[SAT-523] Generation of a Col1a1 conditional knock-in mouse model for the study of osteogenesis imperfecta

Session: Poster Session I and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Roy Morello

[1043] Stimulation of mitochondria dysfunction in the osteoblast lineage recapitulates part of the effects of aging: evidence from single-cell RNA-seq

Session: Oral: Metabolism in the Osteoblast Lineage

Time: 03:45 PM-04:00 PM

Location: West Ballroom AB/Vancouver Convention Centre

Presenter: Mohsin Ali (Almeida lab) (**ASBMR Travel Award**)

[1053] RANKL and OPG mRNA are produced by separate cell populations in murine and human boneSession:

Oral: Novel Insights into RANKL-OPG signaling

Time: 03:45 PM-04:00 PM

Location: West Ballroom D/Vancouver Convention Centre

Presenter: Cecile Bustamante-Gomez (O'Brien lab)

Anti-Sclerostin Therapy in Cancer-induced Bone Disease

Session: Plenary Symposium: Updates and Uncertainties in Bone Targeted Therapies and Cancer

Time: 05:05 PM-05:25 PM

Location: West Ballroom AB/Vancouver Convention Centre

Presenter: Jesus Delgado-Calle

SUNDAY 15, OCTOBER

[SUN-103] The MIP-1 α /HMGB1 Signaling Axis Regulates Osteocyte RANKL expression in Multiple Myeloma

Session: Poster Session II and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Aric Anloague (Delgado-Calle lab) (**ASBMR Travel Award**)

[SUN-127] Osteocytes Induce Drug Resistance via the NOTCH3-CXCL12 Signaling Axis in Multiple Myeloma

Session: Poster Session II and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Hayley Sabol (Delgado-Calle lab) (**Plenary Poster**)

[SUN-158] The NAD salvage pathway in osteoblast lineage cells is indispensable for skeletal homeostasis

Session: Welcome Reception and Plenary Poster Presentation

Time: 6:00 PM - 7:30 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Olivia Reyes-Castro (**Plenary Poster**)

[SUN-219] Single cell RNAseq analysis reveals that osteoblast biosynthetic activity as well as number decrease with aging

Session: Poster Session II

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Intawat Nookaew & Maria Almeida

[SUN-220] Deletion of the Mitochondrial Kinase PINK1 Does Not Affect Age-Related Bone Loss

Session: Poster Session II and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Ha-Neui Kim

[SUN-316] Wnt10b is required for the bone anabolic effect of a natural antibody that blocks oxidized phospholipids.

Session: Poster Session II and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Elena Ambrogini (**Plenary Poster**)

[LB SUN-584] Mitochondria dysfunction in osteoblast lineage cells does not impact the bone adaptive response to mechanical loading

Session: Late-Breaking Poster Session I

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Ana Resende-Coelho (Almeida lab) (**ASBMR Travel Award**)

[1091] A novel periosteal cell type, identified by single cell RNA sequencing, senses mechanical loading and in response to it differentiates into osteoblasts.

Session: Oral: Mediators of Mechanical Signals

Time: 3:15 PM-3:30 PM

Location: West Meeting Room 118-120/Vancouver Convention Centre

Presenter: Jinhu Xiong

MONDAY 16, OCTOBER

[1119] Attenuation of NAD⁺ Metabolism in Osteoclasts Contributes to the Bone Protective Effects of Estrogens

Session: Oral: Metabolism and Signaling in Osteoclasts

Time: 10:15 AM-10:30 AM

Location: West Meeting Room 109-110/Vancouver Convention Centre

Presenter: Adriana Carvalho (Kim & Almeida labs) (**Young Investigator Award**)

[1124] Altered Mitochondrial Protein Acetylation in Osteoclasts May Lead to Skeletal Disintegration in Young Adult Male Mice Exposed to Ionizing Radiation

Session: Late-Breaking Oral Presentations: Basic Science

Time: 11:45 AM-12:00 AM

Location: West Meeting Room 109-110/Vancouver Convention Centre

Presenter: Gareeballah Balla (Kim lab)

AWARDEES

Japneet Kaur (Delgado-Calle lab) (**Most outstanding Translation Abstract**)

Adriana Carvalho (Kim & Almeida labs) (**Young Investigator Award**)

Hayley Sabol (Delgado-Calle lab) (**Young Investigator Award**)

Alicen James (Onal lab) (**ASBMR Travel Award**) (**EFF Travel Award**)

Melda Onal (**ASBMR Travel Award**)

Aric Anloague (Delgado-Calle lab) (**ASBMR Travel Award**)

Mohsin Ali (Almeida lab) (**ASBMR Travel Award**)

Ana Resende-Coelho (Almeida lab) (**ASBMR Travel Award**) (**EFF Travel Award**)

Kurilung (Nookaew & Delgado-Calle Labs) (**Plenary Poster**)

SUMMARY

Invited Talks: 6 (5 pre-meeting + 1 annual meeting)

Chaired events: 3 (pre-meeting)

Oral presentations: 7

Oral posters: 2

Plenary posters: 6

Posters: 15 (8 pre-meeting + 7 annual meeting)

Most outstanding Translation Award: 1

Young Investigator Awards: 2

Travel Awards: 6

INVITED TALKS

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Presenter: Teresita Bellido

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Time: 3:45 PM-4:30 PM

Location: TBD/Vancouver Convention Centre

Presenter: Teresita Bellido

ASBMR 2023 Symposium: Osteocytes in Bone Health and Disease and as Therapeutic Target Cells

Mechanotransduction by the Piezo1 pathway in osteocytes

Session: Osteocytes and Mechanobiology

Date: Friday 13, October 2023

Time: 8:15 AM-9:45 AM

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Presenter: Jinhu Xiong

Bidirectional signaling between osteocytes and myeloma cells

Session: Osteocytes as part of the bone/bone marrow niche

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Time: 12:15 PM-1:30 PM

Location: TBD/Vancouver Convention Centre

Presenter: Jesus Delgado-Calle

New osteocyte-targeting genetic approaches with CRISPR interference

Session: New technologies in osteocyte biology

Date: Friday 13, October 2023

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Presenter: Melda Onal

ASBMR 2023 Annual Meeting

Anti-Sclerostin Therapy in Cancer-induced Bone Disease

Session: Plenary Symposium: Updates and Uncertainties in Bone Targeted Therapies and Cancer

Date: Saturday 14, October 2023

Time: 05:05 PM-05:25 PM

Location: West Ballroom AB/Vancouver Convention Centre

Presenter: Jesus Delgado-Calle

ORAL PRESENTATIONS

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Presenter: Hayley Sabol (Delgado-Calle lab) (**Young Investigator Award**)

[1043] Stimulation of mitochondria dysfunction in the osteoblast lineage recapitulates part of the effects of aging: evidence from single-cell RNA-seq

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Time: 03:45 PM-04:00 PM

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Presenter: Mohsin Ali (Almeida lab) (**ASBMR Travel Award**)

[1053] Stimulation of mitochondria dysfunction in the osteoblast lineage recapitulates part of the effects of aging: evidence from single-cell RNA-seq

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Date: Saturday 14, October 2023
Time: 03:45 PM-04:00 PM
Location: West Ballroom D/Vancouver Convention Centre
Presenter: Cecile Bustamante-Gomez (O'Brien lab)

[1091] A novel periosteal cell type, identified by single cell RNA sequencing, senses mechanical loading and in response to it differentiates into osteoblasts.

Session: Oral: Mediators of Mechanical Signals

Date: Sunday 15, October 2023

Time: 3:15 PM-3:30 PM

Location: West Meeting Room 118-120/Vancouver Convention Centre

Presenter: Jinhu Xiong

[1043] Attenuation of NAD⁺ Metabolism in Osteoclasts Contributes to the Bone Protective Effects of Estrogens

Session: Oral: Metabolism and Signaling in Osteoclasts

Date: Monday 16, October 2023

Time: 10:15 AM-10:30 AM

Location: West Meeting Room 109-110/Vancouver Convention Centre

Presenter: Adriana Carvalho (Kim & Almeida labs) (**Young Investigator Award**)

[1124] Altered Mitochondrial Protein Acetylation in Osteoclasts May Lead to Skeletal Disintegration in Young Adult Male Mice Exposed to Ionizing Radiation

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Time: 11:45 AM-12:00 AM

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Presenter: Gareeballah Balla (Kim lab)

ORAL POSTERS

[FRI-127] Osteocytes Induce Drug Resistance via the NOTCH3-CXCL12 Signaling Axis in Multiple Myeloma

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Time: 05:15 PM-05:18 PM

Location: West Ballroom AB/Vancouver Convention Centre

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Presenter: Alicen James (Onal lab) (**ASBMR Travel Award**) (**EFF Travel Award**)

PLENARY POSTERS

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Time: 6:00 PM-7:30 PM

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Presenter: Hayley Sabol (Delgado-Calle lab) (**Plenary Poster**)

[FRI-158] The NAD salvage pathway in osteoblast lineage cells is indispensable for skeletal homeostasis

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Time: 6:00 PM - 7:30 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Olivia Reyes-Castro (Almeida lab) (**Plenary Poster**)

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Time: 6:00 PM-7:30 PM

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Presenter: Intawat Nookaew (**Plenary Poster**)

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Session: Welcome Reception and Plenary Poster Presentation

Time: 6:00 PM-7:30 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Elena Ambrogini (**Plenary Poster**)

[FRI-328] Extrachromosomal circular DNA is produced by bone cells and may regulate physiological and pathological bone remodeling in mice and humans

Session: Welcome Reception and Plenary Poster Presentation

Time: 6:00 PM-7:30 PM

Location: Discovery Hall, Exhibit Hall AB /Vancouver Convention Centre

Presenter: Kurilung (Nookaew & Delgado-Calle Labs) (**Plenary Poster**) (**ASBMR Travel Award**)

POSTERS

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Session: Poster Session I and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Kurilung (Nookaew & Delgado-Calle labs)

[SAT-369] Lack of osteoblast lineage autophagy does not alter the response to mechanical load

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Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Melda Onal (**ASBMR Travel Award**)

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Session: Poster Session I and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Roy Morello

[SUN-103] The MIP-1 α /HMGB1 Signaling Axis Regulates Osteocyte RANKL expression in Multiple Myeloma

Session: Poster Session II and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Aric Anloague (Delgado-Calle lab) ([ASBMR Travel Award](#))

[SUN-219] Single cell RNAseq analysis reveals that osteoblast biosynthetic activity as well as number decrease with aging

Session: Poster Session II

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Intawat Nookaew & Maria Almeida

[SUN-220] Deletion of the Mitochondrial Kinase PINK1 Does Not Affect Age-Related Bone Loss

Session: Poster Session II and Poster Tours

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Ha-Neui Kim

[LB SUN-584] Mitochondria dysfunction in osteoblast lineage cells does not impact the bone adaptive response to mechanical loading

Session: Late-Breaking Poster Session I

Time: 01:30 PM-3:00 PM

Location: Discovery Hall, Exhibit Hall AB/Vancouver Convention Centre

Presenter: Ana Resende-Coelho (Almeida lab) ([ASBMR Travel Award](#))