# Annual Reporting for Faculty Supported Research Centres and Networks

All Centres (provisional Centres; McGill Centres), Research groups and Networks that receive funding from the Faculty of Medicine are required to provide two components of reporting:

1. an Annual Report of Activities and Outcomes (see below),
2. a Financial Statement (see attached Excel document).

The reporting period is May 1, 2019 – April 30, 2020.

**Deadline: Monday, May 25th, 2020 at 5pm**

Please send both documents to Faculty of Medicine’s Research Office (**riac.med@mcgill.ca**).

**Continued support from the Faculty is contingent on:**

1. the receipt of the reporting documents on time,
2. the evaluation of reported activities by the Faculty’s Committee for Oversight of Research Units (CORU),
3. the availability of Faculty funds.

Your strong engagement in the Faculty’s mission for continued research excellence and financial stewardship is truly appreciated.

# Annual Report of Activities and Outcomes

**Please respect the page limits, where indicated, or the report will be returned.**

*(The accepted font is Times New Roman or Calibri regular 11 pts)*

1. Name of the Unit: *Network for Oral and Bone Health Research*
2. Director’s contact information:

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1. If the Unit is **a Senate-approved** McGill Research Centre, indicate date of approval:
2. Mission Statement of the Unit: The mission of the Network is to develop and disseminate new knowledge concerning oral- and bone-related health, and in-so-doing reduce health inequalities and promote the quality of life of the population of Quebec.
3. Number of Unit members: 112 researchers, 178 student members
4. Number of members affiliated with McGill’s Faculty of Medicine: 32 researchers
5. **Unit’s website**:

 URL: www.rsbo.ca

**Note: Thewebsiteneeds to feature the following:**

* all sources of funding support (including the Faculty of Medicine’s logo),
* the List of Members and their institutional affiliation with appropriate links,
* the activities supported by the Unit
* all previous Annual Reports.
1. Summary of past year’s **goals and objectives** of the Unit. (**limit: ½ page**)
	* + Use bullet points or numbered lists and be as quantitative as possible.
		+ Indicate unforeseen changes, opportunities or difficulties.

To work towards our mission, the RSBO focuses its efforts in these main objectives:

* Facilitate multidisciplinary research among scientists from different disciplines (basic, clinical and epidemiological): Our major structuring project competition is designed to bring together researchers from diverse disciplines around a project related to oral and bone health. The proposal must include a team of researchers from at least two different institutions.
* Support the next generation of researchers: We are organizing a fellowship competition every year to support grad students and postdoctoral fellows. In addition, we support trainees that wish to attend international meetings by providing travel support up to 800$ each. Our RSBO student group was launched in 2019 and several outreach activities were organized (workshops, seminars, Art & Science project, lab visits).
* Maintain major research infrastructure to facilitate the work of the Network’s members, thereby making them highly competitive when seeking research grants elsewhere.
* Encourage knowledge transfer. We support the organization of major conferences and workshops. We also develop new initiatives such as short video productions, video competition for trainees, an Art & Science group and a new program to alleviate Open Access fees for publications rated in the first quartile of their category. Our mission is to facilitate exchange of knowledge between scientists, but also to advertise the work of our members to the public and to bring credible information on social medias.
1. **Major achievements** enabled by the support obtained from the Faculty. **(limit: 1 page)**

*(see Appendix for suggested metrics)*

**Note:** We care to evaluate how the Unit is doing as a whole greater than the sum of its talents. For this reason, do not list achievements from a single PI member of the Unit. Instead, please report only the achievements from the coordinated efforts of at least two PI members of the Unit.

* + Use bullet points
	+ Insert an appendix for publications, grants, etc. if necessary.

**Table 1:** Summary of the RSBO support programs showing the amounts received by members of McGill’s Faculty of Medicine as well as the total budget for our fiscal year 2019-2020

|  |  |  |
| --- | --- | --- |
| RSBO programs |  Description |  Budget (2019-2020) |
| Allocated to McGill Fac MD | TotalAllocated |
| Major structuring projects | Grant competition (5 or 50k) for researchers to support multidisciplinary and multisectoral projects.  | 200k (n=4 projects) | 260k (n=7 teams) |
| Support for conference to trainees | Up to 800$ support to one trainee per year per lab to attend an international conference. | 6.4k (n= 8) | 28k (n=35) |
| Support for infrastructures | Support (25k) the development or operation of common infrastructures | 50k (n=2) | 100k (n=4) |
| Fellowship competition | Awards (5 or 10k) for best evaluated grad students and postdocs from the network | 80k (n=9) | 116k (n=12) |
| Support for organization of International conferences | Support (3 or 4k) researchers in the organization of international conferences in Quebec | 3k (n=1) | 12k (n=4) |
| Support for publication | Support open access fees for publications in the first quartile of their category | 2k (n=1) | 6k (n=3) |
| Total |  | 341.4k (n=25) | 522k (n=63) |

Overall, more that a third of all our awardees are from McGill’s Faculty of Medicine, and they received more than half of the financial support provided by our programs.

Therefore, for its 10 000$ contribution, the Faculty of Medicine has obtained more than 30 times return of its investment.

1. **New Members** who joined the Unit in the past year and their **institutional affiliation(s)**.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name****Last, First**  | **Title****PI, Staff or Trainee****[Graduate student (GS) or post-doctoral fellow (PDF)]** | **Type of Membership Full, Associate** | **Affiliation(s)** |
| Camarda, Aldo-Joseph | PI | Regular | Université de Montréal |
| Martineau, Paul | PI | Regular | McGill, Faculty of Medicine |
| Gibbs, Jenna | PI | Regular | McGill, Faculty of Medicine |
| Wurzba, Sabrina | PI | Regular | McGill, Faculty of Medicine |
| Ducret, Maxime | PI | Associate | McGill, Faculty of Dentistry |
| Kabir, Ryma | PI | Associate | Université de Montréal |
| Salam, Hani | PI | Associate | McGill, Faculty of Medicine |

1. Members who have **left the Unit** over the reported year.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name****Last, First**  | **Title****PI, Staff or Trainee****[Graduate student (GS) or post-doctoral fellow (PDF)]** | **Type of Membership Full, Associate** | **Affiliation(s)** |
| Retrouvey, Jean-Marc | PI | Associate | McGill, dentistry |
|  |  |  |  |
|  |  |  |  |

1. State how the current and forecasted activities of your Unit align with the Education or Research mission (Strategic Research Plan) of the Faculty of Medicine and/or other Faculties at McGill

(**limit: ½ page**):

RSBO shares with the Faculty of Medicine and of Dentistry many of the implementation strategies stated in the Strategic Plan they published together. We also strive to achieve excellence in health science research by promoting interdisciplinary initiatives through our Major Structuring Projects program and our support for major Infrastructures. The research areas are defined by consultations with our members and partners.

RSBO cares for the training of the next generation of researchers in oral and bone health by offering financial support to MSc and PhD students as well as postdoctoral fellows. RSBO also support the opportunity for students and post-docs to present their research results to national and international meetings with its Support to Conference Program.

One of the core missions of RSBO is to encourage knowledge transfer. We are planning a series of initiatives to advertise the work of our members to the public (Art & Science project), increase communication skills among the students (video competition, webinars, workshops), and regroup our members from different fields to organize activities of interest to students, clinicians, scientists and the public. We also believe that creating subgroups will increase the interactions, potentially new collaborations among the scientific community.

1. Explain why support from the Faculty of Medicine continues to be crucial to the operations of the Unit (**limit: ½ page**):

The support from the Faculty of Medicine helps us to maintain important programs; they support researchers and trainees to develop innovative intersectoral projects or to develop further their research training. Without the support from the Faculty of Medicine at McGill, we would face challenges in adapting our programs to the needs of modern science, launching new programs and initiatives, creating new research projects targeted toward issues in oral and bone health, and developing new outreach initiatives to improve communication between researchers and the public. For example, we launched a special COVID-19 competition in March 2020 (2 grants of $5,000) to help researchers to generate preliminary results for a CIHR call for proposal about COVID-19.

1. List action items that the Unit has taken or will consider taking in the next year towards growth and sustainability of its operations (**limit: ½ page)**
	* Use bullet points

**Special call for proposal:** two grants of 5,000$ were given to researchers for projects on COVID-19 and oral health. One of them is a basic research project and the other one focus on guidelines and alternative care (teledentistry) for oral health professionals.

**Support for publication:**  we provide support up to 2,000$ to cover open access fees for publications in the first quartile of their respective category. We supported 6 major publications; one of them from a researcher from McGill’s Faculty of Medicine (Lisbet Haglund).

**Inter-network collaboration:** we launched a special travel award for RSBO trainees to attend the International Association for Dental Research in Vancouver (June 2019). In partnership with the Network for Canadian Oral Health Research (NCOHR), we awarded 11 trainees (5 of them from McGill’s Faculty of Medicine) with a fellowship of 1 000$ to attend the event. 3 students were awarded for the same competition in 2020; one of which from McGill’s Faculty of Medicine.

**Video production & Video competition for trainees:** we created short videos on research briefs featuring the work of researchers from the Faculty of Medicine at McGill such as Marc McKee and public health videos to provide credible information on social medias (hunting fake news on bone & oral health featuring Drs Christophe Bedos & Paul Allison). In 2019, we launched a video competition for trainees where 4 awards were given; 2 of them from students of the McGill Faculty of Medicine (Genevieve Lambert and Qiman Gao).

**Art & Science group**: our group includes 7 researchers (among them Marta Cerruti and Argerie Tsimicalis from the Faculty of Medicine at McGill), 8 students and 2 staff members. We hired three artists-in-residence from Fall 2019 to Spring 2020. The mission of this group is to organize artistic events (seminars, group discussions, exhibits for researchers and the public) seeking to advertise the work from our members and inform the public. So far,

1. Provide suggestions about how the Faculty could do better to support the Unit and research efforts in general (e.g., centralized data repositories, institutional data management plans, support for software developments, guidance for adopting open-science practices, simplification of administrative procedures, etc.) (**no** **page** **limit but please be specific and unleash your creativity!**)

The RSBO is always looking for alternative strategies to increase opportunities for inter-institutional collaborations between researchers and trainees from the Faculty of Medicine at McGill and other institutions. Many initiatives could be implemented between our institutions to produce a leverage effect among the scientific community. Therefore, we invite you to be partner or collaborator in our existing programs (for example by launching a special call for a RSBO /Faculty of medicine major structuring project grant) or new initiative of your choice (special award, art & science exhibit, panel discussion etc.).

We could discuss these options on a meeting at your convenience. Please contact us if you would like to be further involved in our activities.

In the attached (Excel) Year-End Financial Report please detail:

1. Expenditures of funding provided by the Faculty of Medicine and other sources, towards meeting the objectives of the Unit,
2. Any in-kind contributions provided to the Unit by other partners and sponsors,
3. Projected budget for the coming year (including request to the Faculty of Medicine).

# Appendix

**Suggested Performance Indicators (non-exhaustive list)**

### **Quantitative:**

* Governance: provide details of management meetings. For example, membership, frequency, attendance, the nature of the meetings and the outcomes.
* Number of workshops, conferences or seminars conducted, number of attendees and target audience;
* Number of visiting scientists hosted by the Unit;
* Number of outreach activities (e.g., public lectures, including in schools, the industry and government agencies, press releases);
* Number of publications co-authored by at least 2 Unit PIs, and journal impact factors;
* Number of targeted activities:
	+ involving research interactions for graduate and postgraduate students,
	+ Industry stakeholder interactions;
* Number of web hits and articles downloaded;
* Outcomes of surveys of Unit members;
* Number of grants funded, with at least 2 Unit PIs as co-applicants;
* Prizes, special awards to member(s) as a result of Unit activities.

### **Qualitative:**

* Activities/outcomes which may not have occurred without the Unit;
* Use of shared resources and facilities;
* Effectiveness of governance processes in place;
* Research building capacity, or removing impediments to research;
* Multi-disciplinary collaborations;
* Increased or new collaboration and partnerships as a result of Unit activities, and with different types of end users (e.g. industry, government and community groups);
* Workshops & meetings the Unit provided financial support for;
* Communication within/outside the Unit (e.g. email, newsletters, website, etc.);
* Level of engagement at seminars and workshops organized by the Unit;
* What exceptional successes, if any, have occurred during the reporting period;
* What disappointments, if any, occurred during the reporting period;
* How new skills have been acquired as a result of research technology;
* Emphasize collaborations between other Units at McGill and internationally;
* Development of tools, software, databases;
* **Emphasize all kinds of open-science efforts.**

**Infrastructures supported by the RSBO in 2019-2020**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Centre pour le phénotypage osseux** | **Banque génétique: maladies rares**  | **surgical research & equipment platform** |
| Lead Scientist | René St-Arnaud Faculty of MedicineMcGill University | Florina MoldovanCentre de rechercheSte-Justine | Lisbet HaglundFaculty of MedicineMcGill University |
| RSBO support | Financial, repair equipment | Financial, sample sequencing | Maintenance & equipment |
| Amount | 25k per year | 25k per year | 25k per year |
| Users | 15 researchers, 19 trainees | Minimum of 5 researchers | 18 researchers |

**List of activities organized by the RSBO student group in 2019-2020**

|  |  |  |  |
| --- | --- | --- | --- |
| Activity | Date | Location | # Participants |
| RSBO Annual Research Day | June 12th, 2019 | McGillResidence Hall | 125 (69 from McGill) |
| Meetings | August 30th, 2019Sept 13th, 2019  Oct 11th, 2019Oct 22nd, 2019Nov 28th, 2019 | McGillMcGillSte-JustineMcGillMcGill | 26 (23 from McGill)14 (11 from McGill)12 (4 from McGill)10 (7 from McGill)11 (11 from McGill) |
| Art sessions | Every 2 weeks from Sept 2019 to June 2020 | McGill Ste-JustineShrinersTeleconference | 5-10 participantsper session |
| Lab visits | Oct 3rd, 2019Nov 15th, 2019Jan 23rd, 2020 | IR-CUSMSte-JustineU de M | 6 (all from McGill)19 (10 from McGill)7 (6 from McGill) |
| Art workshop | Sept 20th, 2019 | La CentraleGallerie d’Art | 17 ( all from McGill) |
| Seminar: When Art speaks Science | Dec 13th, 2019 | Shriners | 21(all form McGill) |
| Workshop: How to make your own 3MT video |  May 6th, 2020 | Videoconference | 28 (23 from McGill) |

**Number of grants funded featuring at least 2 PI from the network:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | PIs | ***Title*** | Grant | Amount ($) |
| 2019 | S. MorinC GagnonF Mac-Way | ***Métabolisme et pathologies osseuses*** | RSBO Projet Structurant Majeur | 50k |
|  | R. S. NaeiniL HaglundL Stone | ***Douleur chroniques et disques inter-vertébraux*** | RSBO Projet Structurant Majeur | 50k |
|  | P. MoffattF. RauchA. Nanci | **Craniofacial and dental manifestations in mouse models for osteogenesis imperfecta type V and aVI** | RSBO Projet Structurant Majeur | 50k |
|  | E. EmamiR. KabirC. BedosA. DawsonH. Herneagea | **Leadership et santé buccodentaire: Quel avenir pour la profession?** | RSBO Projet Structurant Majeur | 50k |
|  | D. RosenzweigL. HaglundI. VillemureM. Weber | **Composite 3D printed scaffolds for stabilization, tissue repair and local therapeutic delivery in bone tumor resections**  | RSBO Projet Structurant Majeur | 50k |
| 2020 | P. AllisonS. MadathilJ. BarbeauF. GirardA. MoreauC. BedosB. NicolauR. de SouzaP. FloodW. Siquiera | **Supporting the dental community in our response to COVID-19** | RSBO Projet Structurant Majeur | 5k |
|  | F. MoldovanS. Roy | **Explorations des effets d’AINS sur la régulation de l’ACE2 et du récepteur MAS, deux facteurs qui risquent d'aggraver les effets du Covid-19** | RSBO Projet Structurant Majeur | 5k |

**CIHR 2019:**

* Faleh Tamimi & Laura Stone (Fall 2019),
* Maryam Tabrizian (collaborative health research project grant CIRH-NCERC-SSHR, 2019)
* Svetlana Komarova & Bettina Willie (Spring 2019),
* Monzur Murshed & Marta Cerruti (Spring 2019)

**List of publications co-authored by at least 2 Unit PIs (with at least 1 from the Faculty of Medicine at McGill), and journal impact factors. In 2019-2020, a total of 294 manuscripts from our members were published. Among these, 61% (180) were coming from members of the McGill’s Faculty of Medicine. Average H index: 127**

1: Zhang RM, Kumra H, Reinhardt DP. Quantification of Extracellular Matrix Fiber

Systems Related to ADAMTS Proteins. Methods Mol Biol. 2020;2043:237-250. doi:

10.1007/978-1-4939-9698-8\_19. PubMed PMID: 31463916. **H index: 126**

2: Nelea V, Reinhardt DP. Biophysical Techniques to Analyze Elastic Tissue

Extracellular Matrix Proteins Interacting with ADAMTS Proteins. Methods Mol Biol.

2020;2043:213-235. doi: 10.1007/978-1-4939-9698-8\_18. PubMed PMID: 31463915.

**H index: 126**

3: Matenine D, Schmittbuhl M, Bedwani S, Després P, de Guise JA. Iterative

reconstruction for image enhancement and dose reduction in diagnostic cone beam

CT imaging. J Xray Sci Technol. 2019;27(5):805-819. doi: 10.3233/XST-190523.

PubMed PMID: 31450539. **H index: 61**

4: Khan K, Muller-Bolla M, Anacleto Teixeira Junior O, Gornitsky M, Guimarães

AS, Velly AM. Comorbid conditions associated with painful temporomandibular

disorders in adolescents from Brazil, Canada and France: A cross-sectional study.

J Oral Rehabil. 2020 Apr;47(4):417-424. doi: 10.1111/joor.12923. Epub 2020 Jan 5.

PubMed PMID: 31834958. **H index: 84**

5: Varga P, Willie BM, Stephan C, Kozloff KM, Zysset PK. Finite element analysis

of bone strength in osteogenesis imperfecta. Bone. 2020 Apr;133:115250. doi:

10.1016/j.bone.2020.115250. Epub 2020 Jan 22. PubMed PMID: 31981754. .

**H index: 183**

6: Moussa H, Jiang W, Alsheghri A, Mansour A, Hadad AE, Pan H, Tang R, Song J,

Vargas J, McKee MD, Tamimi F. High strength brushite bioceramics obtained by

selective regulation of crystal growth with chiral biomolecules. Acta Biomater.

2020 Apr 1;106:351-359. doi: 10.1016/j.actbio.2020.01.047. Epub 2020 Feb 5.

PubMed PMID: 32035283. **H index: 155**

7: Chougui K, Addab S, Palomo T, Morin SN, Veilleux LN, Bernstein M, Thorstad K,

Hamdy R, Tsimicalis A. Clinical manifestations of osteogenesis imperfecta in

adulthood: An integrative review of quantitative studies and case reports. Am J

Med Genet A. 2020 Apr;182(4):842-865. doi: 10.1002/ajmg.a.61497. Epub 2020 Feb

24. Review. PubMed PMID: 32091187. **H index: 122**

8: Albiol L, Büttner A, Pflanz D, Mikolajewicz N, Birkhold AI, Kramer I, Kneissel

M, Duda GN, Checa S, Willie BM. Effects of Long-Term Sclerostin Deficiency on

Trabecular Bone Mass and Adaption to Limb Loading Differ in Male and Female Mice.

Calcif Tissue Int. 2020 Apr;106(4):415-430. doi: 10.1007/s00223-019-00648-4. Epub

2019 Dec 23. PubMed PMID: 31873756. **H index: 106**

9: Tsimicalis A, Stevens B, Ungar WJ, Castro A, Greenberg M, Barr R. Shifting

Priorities for the Survival of My Child: Managing Expenses, Increasing Debt, and

Tapping Into Available Resources to Maintain the Financial Stability of the

Family. Cancer Nurs. 2020 Mar/Apr;43(2):147-157. doi: 10.1097/NCC.0000000000000698. PubMed PMID: 30950931. **H index: 71**

10: Castro AR, Tsimicalis A. Beware of Discharge: A Case Exploring the Ethics of

Societal Expectations Placed on Families at Hospital Discharge. Home Healthc Now.

2020 Mar/Apr;38(2):98-104. doi: 10.1097/NHH.0000000000000752. PubMed PMID:

31904606. **H index: 24**

11: Ma J, Siminoski K, Wang P, Alos N, Cummings EA, Feber J, Halton J, Ho J,

Houghton K, Lang B, Miettunen PM, Scuccimarri R, Jaremko JL, Koujok K, Lentle B,

Matzinger MA, Shenouda N, Rauch F, Ward LM; and the Canadian Steroid-Induced

Osteoporosis in the Pediatric Population (STOPP) Consortium. The Accuracy of

Prevalent Vertebral Fracture Detection in Children Using Targeted Case-Finding

Approaches. J Bone Miner Res. 2020 Mar;35(3):460-468. doi: 10.1002/jbmr.3922.

Epub 2019 Dec 17. PubMed PMID: 31742768. **H index: 223**

12: Oweis Y, Algizani S, Mezour MA, Alageel O, Abdallah MN, Mahjoubi H, Ng B,

Laurenti M, Cerruti M, Tamimi F. Biocompatibility and Durability of Diazonium

Adhesives on Dental Alloys. J Prosthodont. 2020 Mar;29(3):251-260. doi:

10.1111/jopr.13129. Epub 2020 Feb 5. PubMed PMID: 31782584. **H index: 52**

13: Whyte MP, Amalnath SD, McAlister WH, McKee MD, Veis DJ, Huskey M, Duan S,

Bijanki VN, Alur S, Mumm S. Hypophosphatemic osteosclerosis, hyperostosis, and

enthesopathy associated with novel homozygous mutations of DMP1 encoding dentin

matrix protein 1 and SPP1 encoding osteopontin: The first digenic SIBLING protein

osteopathy? Bone. 2020 Mar;132:115190. doi: 10.1016/j.bone.2019.115190. Epub 2019

Dec 13. PubMed PMID: 31843680. **H index: 183**

14: Allison P, Tamimi F. Mouthguards should be worn in contact sports. Br J Sports

Med. 2020 Mar 27. pii: bjsports-2020-102041. doi: 10.1136/bjsports-2020-102041.

[Epub ahead of print] PubMed PMID: 32220853. **H index: 141**

15: Athanasiadou D, Jiang W, Reznikov N, Rodríguez-Navarro AB, Kröger R, Bilton M,

González-Segura A, Hu Y, Nelea V, McKee MD. Nanostructure of mouse otoconia. J

Struct Biol. 2020 Mar 3:107489. doi: 10.1016/j.jsb.2020.107489. [Epub ahead of

print] PubMed PMID: 32142754. **H index: 132**

16: Watcharajittanont N, Tabrizian M, Putson C, Pripatnanont P, Meesane J.

Osseointegrated membranes based on electro-spun

TiO(2)/hydroxyapatite/polyurethane for oral maxillofacial surgery. Mater Sci Eng

C Mater Biol Appl. 2020 Mar;108:110479. doi: 10.1016/j.msec.2019.110479. Epub

2019 Nov 21. PubMed PMID: 31923963. **H index: 204**

17: Su X, Liu Y, Bakkar M, ElKashty O, El-Hakim M, Seuntjens J, Tran SD. Labial

Stem Cell Extract Mitigates Injury to Irradiated Salivary Glands. J Dent Res.

2020 Mar;99(3):293-301. doi: 10.1177/0022034519898138. Epub 2020 Jan 14. PubMed

PMID: 31937182. **H index: 158**

18: Beaulieu-Laroche L, Christin M, Donoghue A, Agosti F, Yousefpour N, Petitjean

H, Davidova A, Stanton C, Khan U, Dietz C, Faure E, Fatima T, MacPherson A,

Mouchbahani-Constance S, Bisson DG, Haglund L, Ouellet JA, Stone LS, Samson J,

Smith MJ, Ask K, Ribeiro-da-Silva A, Blunck R, Poole K, Bourinet E, Sharif-Naeini

R. TACAN Is an Ion Channel Involved in Sensing Mechanical Pain. Cell. 2020 Mar

5;180(5):956-967.e17. doi: 10.1016/j.cell.2020.01.033. Epub 2020 Feb 20. PubMed

PMID: 32084332. **H index: 705**

19: Mikolajewicz N, Bishop N, Burghardt AJ, Folkestad L, Hall A, Kozloff KM,

Lukey PT, Molloy-Bland M, Morin SN, Offiah AC, Shapiro J, van Rietbergen B, Wager

K, Willie BM, Komarova SV, Glorieux FH. HR-pQCT Measures of Bone

Microarchitecture Predict Fracture: Systematic Review and Meta-Analysis. J Bone

Miner Res. 2020 Mar;35(3):446-459. doi: 10.1002/jbmr.3901. Epub 2019 Nov 19.

PubMed PMID: 31643098. **H index: 223**

20: Košir U, Denis-Larocque G, Tsimicalis A, Freeman C, Turcotte RE, Cury F,

Alcindor T, Goulding K. Psychological functioning, coping styles and their

relationship to appraisal of physical limitations following invasive surgical

procedures for soft-tissue sarcoma: A qualitative study. J Surg Oncol. 2020 Mar. doi: 10.1002/jso.25915. [Epub ahead of print] PubMed PMID: 32221986. **H index: 101**

21: Cressatti M, Juwara L, Galindez JM, Velly AM, Nkurunziza ES, Marier S, Canie

O, Gornistky M, Schipper HM. Salivary microR-153 and microR-223 Levels as

Potential Diagnostic Biomarkers of Idiopathic Parkinson's Disease. Mov Disord.

2020 Mar;35(3):468-477. doi: 10.1002/mds.27935. Epub 2019 Dec 4. PubMed PMID:

31800144. **H index: 174**

22: Basalom S, Rauch F. Bone Disease in Patients with Ehlers-Danlos Syndromes.

Curr Osteoporos Rep. 2020 Mar 12. doi: 10.1007/s11914-020-00568-5. [Epub ahead of

print] Review. PubMed PMID: 32162201. **H index: 43**

23: Main RP, Shefelbine SJ, Meakin LB, Silva MJ, van der Meulen MCH, Willie BM.

Murine Axial Compression Tibial Loading Model to Study Bone Mechanobiology:

Implementing the Model and Reporting Results. J Orthop Res. 2020

Feb;38(2):233-252. doi: 10.1002/jor.24466. Epub 2019 Oct 23. Review. PubMed PMID:

31508836. **H index: 140**

24: Fleischhacker V, Klatte-Schulz F, Minkwitz S, Schmock A, Rummler M, Seliger A,

Willie BM, Wildemann B. In Vivo and In Vitro Mechanical Loading of Mouse Achilles

Tendons and Tenocytes-A Pilot Study. Int J Mol Sci. 2020 Feb 15;21(4). pii:

E1313. doi: 10.3390/ijms21041313. PubMed PMID: 32075290; PubMed Central PMCID:

PMC7072865. **H index: 114**

25: Cherid C, Baghdadli A, Wall M, Mayo NE, Berry G, Harvey EJ, Albers A, Bergeron

SG, Morin SN. Current level of technology use, health and eHealth literacy in

older Canadians with a recent fracture-a survey in orthopedic clinics. Osteoporos

Int. 2020 Feb 28. doi: 10.1007/s00198-020-05359-3. [Epub ahead of print] PubMed

PMID: 32112118. **H index: 157**

26: Grégoire S, Jang SH, Szyf M, Stone LS. Prenatal maternal stress is associated

with increased sensitivity to neuropathic pain and sex-specific changes in

supraspinal mRNA expression of epigenetic- and stress-related genes in adulthood.

Behav Brain Res. 2020 Feb 17;380:112396. doi: 10.1016/j.bbr.2019.112396. Epub

2019 Nov 29. PubMed PMID: 31786273. **H index: 154**

27: Sun H, Kaartinen MT. Assessment of expression and specific activities of

transglutaminases TG1, TG2, and FXIII-A during osteoclastogenesis. Anal Biochem.

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