

## Resource Sharing

Sharing of computational knee models (and relevant data) as resource has been conducted through the “Downloads” section of the project website at <https://simtk.org/home/openknee>. All download packages are disseminated using the Creative Commons Attribution-ShareAlike 3.0 Unported (CC BY-SA 3.0) license, see <http://creativecommons.org/licenses/by-sa/3.0/>. This license allows anyone to share (to copy, distribute, transmit the work), to remix (to adapt the work), and to make commercial use of the work under the following conditions: i) attribution – one must attribute the work in the manner specified by the author or licensor (but not in any way that suggests that they endorse you or your use of the work); ii) share alike – if one alters, transforms, or builds upon this work, one may distribute the resulting work only under the same or similar license to this one. This licensing scheme provides utmost dissemination and promote open science. It also does not restrict any type of use, academic or commercial.

**Package.** Open Knee(s) - Generation 2 - Specimen 1 (added in this budget period)

**Release Date(s).** April 15, 2015 (g2-s1-v0.1.0.20150415); August 25, 2015 (g2-s1-v0.2.0.20150825)

**Package Description.** This release provides anatomical imaging and joint mechanics data for Open Knee(s) – Generation 2 – Specimen 1.

**Download Location.** [https://simtk.org/project/xml/downloads.xml?group\\_id=485#package\\_id1685](https://simtk.org/project/xml/downloads.xml?group_id=485#package_id1685)

**Downloads.** 100 unique users as of April 15, 2016.

**Package.** Open Knee(s) - Generation 2 - Specimen 2 (added in this budget period)

**Release Date(s).** April 15, 2015 (g2-s2-v0.1.0.20150415); September 16, 2015 (g2-s2-v0.2.0.20150916)

**Package Description.** This release provides anatomical imaging and joint mechanics data for Open Knee(s) – Generation 2 – Specimen 2.

**Download Location.** [https://simtk.org/project/xml/downloads.xml?group\\_id=485#package\\_id1689](https://simtk.org/project/xml/downloads.xml?group_id=485#package_id1689)

**Downloads.** 24 unique users as of April 15, 2016.

**Package.** Open Knee(s) - Generation 2 - Specimen 3 (added in this budget period)

**Release Date(s).** April 15, 2015 (g2-s3-v0.1.0.20150415); October 13, 2015 (g2-s3-v0.2.0.20151013)

**Package Description.** This release provides anatomical imaging and joint mechanics data for Open Knee(s) – Generation 2 – Specimen 3.

**Download Location.** [https://simtk.org/project/xml/downloads.xml?group\\_id=485#package\\_id1690](https://simtk.org/project/xml/downloads.xml?group_id=485#package_id1690)

**Downloads.** 13 unique users as of April 15, 2016.

**Package.** Open Knee(s) - Generation 2 - Specimen 4 (added in this budget period)

**Release Date(s).** April 15, 2015 (g2-s4-v0.1.0.20150415); October 29, 2015 (g2-s4-v0.2.0.20151029)

**Package Description.** This release provides anatomical imaging and joint mechanics data for Open Knee(s) – Generation 2 – Specimen 4.

**Download Location.** [https://simtk.org/project/xml/downloads.xml?group\\_id=485#package\\_id1691](https://simtk.org/project/xml/downloads.xml?group_id=485#package_id1691)

**Downloads.** 12 unique users as of April 15, 2016.

**Package.** Open Knee(s) - Generation 2 - Specimen 6 (added in this budget period)

**Release Date(s).** April 15, 2015 (g2-s6-v0.1.0.20150415); September 15, 2015 (g2-s6-v0.2.0.20150915)

**Package Description.** This release provides anatomical imaging and joint mechanics data for Open Knee(s) – Generation 2 – Specimen 6.

**Download Location.** [https://simtk.org/project/xml/downloads.xml?group\\_id=485#package\\_id1692](https://simtk.org/project/xml/downloads.xml?group_id=485#package_id1692)

**Downloads.** 10 unique users as of April 15, 2016.

**Package.** Open Knee(s) - Generation 2 - Specimen 7 (added in this budget period)

**Release Date(s).** April 15, 2015 (g2-s7-v0.1.0.20150415); October 21, 2015 (g2-s7-v0.2.0.20151021)

**Package Description.** This release provides anatomical imaging and joint mechanics data for Open Knee(s) – Generation 2 – Specimen 7.

**Download Location.** [https://simtk.org/project/xml/downloads.xml?group\\_id=485#package\\_id1693](https://simtk.org/project/xml/downloads.xml?group_id=485#package_id1693)

**Downloads.** 13 unique users as of April 15, 2016.

**Package.** Open Knee(s) - Generation 2 - Specimen 8 (added in this budget period)

**Release Date(s).** June 26, 2015 (g2-s8-v0.1.0.20150626); October 21, 2015 (g2-s8-v0.2.0.20151021)

**Package Description.** This release provides anatomical imaging and joint mechanics data for Open Knee(s) – Generation 2 – Specimen 8.

**Download Location.** [https://simtk.org/project/xml/downloads.xml?group\\_id=485#package\\_id1723](https://simtk.org/project/xml/downloads.xml?group_id=485#package_id1723)

**Downloads.** 18 unique users as of April 15, 2016.

**Package.** Open Knee(s) - Generation 2 - Specimen 9 (added in this budget period)

**Release Date(s).** December 7, 2015 (g2-s9-v0.1.0.20151207); December 8, 2015 (g2-s9-v0.2.0.20151208)

**Package Description.** This release provides anatomical imaging and joint mechanics data for Open Knee(s) – Generation 2 – Specimen 9.

**Download Location.** [https://simtk.org/project/xml/downloads.xml?group\\_id=485#package\\_id1798](https://simtk.org/project/xml/downloads.xml?group_id=485#package_id1798)

**Downloads.** 15 unique users as of April 15, 2016.

**Package.** Open Knee - Generation 1

**Release Date(s).** January 5, 2011 (g1-s1-v1.0.1.202); January 28, 2015 (g1-s1-v1.1.0.391)

**Package Description.** This release provides the Open Knee - Generation 1 model.

**Download Location.** [https://simtk.org/project/xml/downloads.xml?group\\_id=485#package\\_id963](https://simtk.org/project/xml/downloads.xml?group_id=485#package_id963)

**Downloads.** 641 unique users as of April 15, 2016.

Total number of downloads for all packages is 4,482 as of April 15, 2016.

## Impact of Resource Sharing

Dissemination of Open Knee(s) data and models enabled the following studies conducted by investigators beyond the Open Knee(s) development team (added in this budget period):

1. Carvalho, D. (2015) Estudo biomecânico dos meniscos na articulação do joelho humano, M.S. Thesis, Universidade do Porto, Porto, Portugal.

2. Zhang, G., Smith, B. P., Plate, J., Casanova, R., Hsu, F. C., Li, J., Xia, L., Li, K. C., Poehling, G. G., Zhou, X. (2016) A systematic approach to predicting the risk of unicompartmental knee arthroplasty revision, *Osteoarthritis Cartilage*, pii: S1063-4584(16)00010-8.