

# Daniel Kuebler

Dean, School of Natural and Applied Sciences  
Franciscan University of Steubenville  
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## EDUCATION

*University of California, Berkeley* 1995-1999  
*Berkeley, CA*  
Ph.D. in Molecular and Cell Biology.

*Catholic University of America* 1993-1995  
*Washington, D.C.*  
M.S. in Molecular Biology.

*Catholic University of America* 1989-1993  
*Washington, D.C.*  
B.A. in English.

## WORK EXPERIENCE

*Dean, School of Natural and Applied Sciences* August 2018-present  
*Franciscan University of Steubenville*  
Responsible for the oversight of five academic departments within the school. Duties include managing and evaluating faculty members, overseeing faculty hires, allocating budgets, and developing a strategic plan for the school. Responsible for collaborating with advancement, admissions and marketing to ensure the growth and maintenance of academic programs within the school.

*Professor of Biology* August 2001-present  
*Franciscan University of Steubenville*  
Maintain an undergraduate research laboratory in which students investigate the growth, differentiation and gene expression of mesenchymal stem cells derived from various adult tissues. Responsible for teaching the following courses: Cell Physiology, Human Physiology, Anatomy and Physiology, Neurobiology, Exercise Physiology and Evolution.

*Chief Scientific Officer* Dec 2016-present  
*Franciscan Regenerative*  
Manage the analysis of biological samples for regenerative medicine clients including physicians and biotech companies. Analyze bone marrow, adipose and placental tissue samples. Supervise part-time staff in performing cell counts, flow cytometry analysis and differentiation analysis of stem cells from human tissue samples.

*SCIO Visiting Scholar in Science and Religion* Summer 2015 and 2016  
*Wycliffe Hall, Oxford, England*  
Participated in interdisciplinary seminars in science and religion aimed at bridging the gap between the sciences and the humanities. Examined the origin of order in the biological world particularly at the level of protein structure. Performed collaborative work examining the attitudes and beliefs of religiously committed college students toward evolution.

*Regenerative Medicine Consultant* May 2015-present

*Human Regenerative Technologies*

Analyze placental tissue products used for wound care and orthopedic defects. Author reports and reviews on the state of placental-based regenerative medicine for a broad clinical audience.

*Co-Director, Franciscan Institute of Science and Health  
Franciscan University of Steubenville*

*August 2013-present*

Oversee the development and awarding of undergraduate research positions for Chemistry, Biology, Computer Science, and Engineering students. Facilitate equipment acquisition to support undergraduate research and mentor new faculty who wish to supervise undergraduate research students. Manage a \$125,000 yearly budget, coordinate the expansion of the Institute and cultivate new funding opportunities.

*Co-Coordinator, Science and Faith Speaker Series  
Franciscan University of Steubenville*

*August 2012-present*

Along with colleagues in the Theology, Philosophy and Mathematics departments, manage a speaker series focusing on issues at the intersection of science and faith. Duties include planning events, inviting and hosting speakers and participating in speaker panels on various topics.

*Legislative Assistant  
Rep. Ralph Regula (R)  
Washington, DC*

*April 2001 –August 2001*

Advised the Representative on scientific and educational policy issues including stem cell research policies. Met with lobbying groups, constituents, and other Congressional staff members to identify and develop priorities in the FY 2002 Congressional budget.

*Policy Analyst  
National Institute for Occupational Safety and Health  
Washington, DC*

*August 2000 –April 2001*

Compose, review, and edit scientific and policy documents for public distribution. Coordinate with other agencies and stakeholders to establish research partnerships.

## ACADEMIC PUBLICATIONS

Kuebler, D. (2019) Maintaining virtue in modern scientific practice: providing a foundation to move forward. In C. Deane-Drummond, T. A. Stapleford, and D. Narvaez (Ed.), *Virtue and the Practice of Science: Multidisciplinary Perspectives* (Ch 9), Center for Theology, Science, and Human Flourishing, University of Notre Dame.

<https://virtueandthepracticeofscience.pressbooks.com/>

Radlicz, C., Chamber, A., Olis, E., and Kuebler, D. (2019) The addition of a lipid-rich dietary supplement eliminates seizure-like activity and paralysis in the *Drosophila* Bang sensitive mutants. *Epilepsy Research*, 155: 106153.

[doi.org/10.1016/j.eplepsyres.2019.106153](https://doi.org/10.1016/j.eplepsyres.2019.106153)

Scarpone, M., Kuebler, D., Chambers, A. DeFilippo, C.M., Amatuzio, M., Ichim, T.E., Patel, A., and Caradonna, E. (2019) Isolation of clinically relevant concentrations of bone marrow mesenchymal stem cells without centrifugation. *J Trans Med*, 17:10.  
doi:10.1186/s12967-018-1750-x.

- Kuebler, D. (2018) After Galileo: Modern science has deep parallels with theology. *Church Life Journal*. Oct 15. <http://churchlife.nd.edu/2018/10/15/after-galileo-modern-science-has-deep-parallels-with-theology/>
- Irvin, J., Danchik, C., Rall, J., Pine, M., Barnaby, D., Pathakamuri, J., and Kuebler, D. (2018) Bioactivity and composition of a preserved connective tissue matrix derived from human placental tissue. *Journal of Biomedical Material Research: Part B Applied Biomaterials*, 106(8):2731-2740. doi: 10.1002/jbm.b.34054.
- McLaughlin, M., Gagnet, P., Cunningham, E., Yeager, R., D'Amico, M., Guski, K., Scarpone, M., Kuebler, D. (2016) Allogeneic platelet releasate preparations derived via a novel rapid thrombin activation process promote rapid growth and increased BMP-2 and BMP-4 expression in human adipose-derived stem cells. *Stem Cells Int*. 7183734.
- Stone, B., Burke, B., Coleman, J., Pathakamuri, J., and Kuebler, D. (2014) A low-cost method for analyzing seizure-like activity and movement in *Drosophila*. *Journal of Visual Experimentation*, Feb 19;(84):e51460.
- Stone, B., Kaercher, L., Coleman, J., and Kuebler, D. (2013) Alterations in metabolism suppress seizures in the Bang-sensitive paralytic mutants. *Brain Research* 1496:94-103.
- Kuebler, D. and Fowler, T. (2013) "A Brief History of Evolutionary Thought." in *Intelligible Design*. Ed. Gonzalo, J., and Carreira, M. London: World Scientific Publishing.
- Whelan, J., Burke, B., Rice, A., Tong, M., and Kuebler, D. (2010) Sensitivity to seizure-like activity in *Drosophila* following acute hypoxia and hypercapnia. *Brain Research* 1326: 120-128.
- Kuebler, D. (2008) Book Review of *Creation and Evolution: A Conference with Pope Benedict XVI in Castel Gandolfo. Faith and Reason* 23(1): 205-213.
- Kuebler, D. (2008) Book Review of *Chance or Purpose: Creation, Evolution, and a Rational Faith. Faith and Reason* 23(1): 214-219.
- Kuebler, D., Fowler, T. (2007) *The Evolution Controversy*. Grand Rapids, MI: Baker Academic.
- Kuebler, D. (2006) Putting evolution in its place: How to make students receptive to evolution. *Forum on Public Policy* 2(4):823-34.
- Kuebler, D., and Tanouye, M.A. (2002) Anticonvulsant valproate reduces seizure-susceptibility in mutant *Drosophila*, *Brain Research* 958(1): 36-42.
- Zhang, H., Tan, J., Reynolds, E., Kuebler, D., Faulhaber, S., Tanouye, M.A. (2002) The *Drosophila* slamdance gene: A mutation in an aminopeptidase can cause seizure, paralysis and neuronal failure. *Genetics* 162(3): 1283-99.
- Kuebler, D., Zhang, H., Ren, X., Tanouye, M.A. (2001) Genetic suppression of seizure susceptibility in *Drosophila*. *J. of Neurophysiology* 86:1211-1225.
- Kuebler, D., Tanouye, M.A. (2000) Modifications of seizure susceptibility in *Drosophila*. *J. of Neurophysiology* 83:998-1009.
- Kuebler, D., Rao, V. (1998) Functional analysis of the packaging/terminase protein Gp17 from the bacteriophage T4. *J. of Molecular Biology* 281(5):803-814.

## SELECTED CONFERENCE PRESENTATIONS

- Kuebler, D. (2018) *Maintaining Virtue in Modern Scientific Practice: Providing a Foundation to Move Forward*. Practicing Science: Virtues, Values, and the Good Life. Notre Dame Center for Theology, Science, and Human Flourishing, Aug 9-12, Notre Dame London.
- Kuebler, D. (2017) *Evolution and the Catholic Faith: What Do We Teach?* St. John Bosco Conference, Steubenville, OH, July 21-24.
- Kuebler D. (2017) *The Origin of Evolution: The Interplay of Order and Contingency*. Society for Catholic Scientists Annual Meeting, Chicago, April 22-24.
- Kuebler, D. (2017) *Use of placental tissue for orthopedic injuries: Potentials and pitfalls*. American Association of Orthopaedic Medicine 34<sup>th</sup> Annual Conference, Apr 19-22. Seattle, WA.

- Kuebler, D. (2017) *Quality control for regenerative medicine: Basic laboratory science*. American Association of Orthopaedic Medicine 34<sup>th</sup> Annual Conference, Apr 19-22. Seattle, WA.
- Kuebler, D. (2017) *Assessing the quality of bone marrow samples used in regenerative medicine*. Orthopedic Update Conference, Apr 7. West Penn Allegheny Health System.
- Chambers, A., Nelson, M., Taylor, T., Rubera, J., Bittner, C., and Kuebler, D. (2016) *A ketogenic dietary supplement eliminates seizure-like activity and paralysis in the bang sensitive paralytic mutants*. Genetics Society of America Drosophila Annual Meeting, July 15-27.
- Kuebler D. (2016) *Bone marrow aspiration techniques: The analysis of stem cell content in various aspirates*. Orthopedic Update Conference, Mar 21. West Penn Allegheny Health System.
- Kuebler, D. (2016) *Is a Metaphysically Modest Use of the Term Darwinism Possible? The Response of Religious Individuals to Evolutionary Language*. International Society for the Study of Nature and Religion Annual Meeting, January 17-20.
- Kuebler, D. (2015) *Changes in gene expression following co-culture of adipose-derived stromal/stem cells with a flowable placental connective tissue matrix*. International Federation for Adipose Therapeutics and Science Annual Meeting, November 5-8.
- Kuebler, D. (2015) *The use of placental tissue in treating orthopedic injuries: Potentials and pitfalls*. Invited talk at Orthopedic Update Conference: Regenerative Medicine, Allegheny Health Systems, March 20.
- Radlicz, C and Kuebler, D. (2015) *Adenosine suppresses seizure-like activity (SLA) and shortens recovery time in the Bang-sensitive (BS) paralytic mutants following mechanical shock*. Genetics Society of America Drosophila Annual Meeting, March 20-23.
- McLaughlin, M., Gagnet, P., Cunningham, L., Yeager, R., and Kuebler, D. (2014) *The effects of allogeneic platelet releasate preparations on the growth and gene expression of human adipose derived stem cells*. Poster presented at American Society for Cell Biology Meeting, Dec 10-14.
- Burner, K and Kuebler, D. (2014) *Sucrose-only diets suppress seizure-like activity and shorten recovery time following SLA in the Bang-sensitive (BS) paralytic mutants easily-shocked and technical knockout*. Poster presented at Annual Drosophila Research Conference, Abstr 537C, Mar 26-30.
- Kuebler, D. (2014) *Culturing adipose derived stem cells for therapeutic use: The benefits of platelet releasate*. Invited talk at Orthopedic Update Conference: Regenerative Medicine, Allegheny Health Systems, March 28-30.
- Kuebler, D., Coleman, J., and Stone, B. (2013) *Metformin reduces seizure-like activity in the bang-sensitive paralytic mutants easily shocked and technical knockout*. Poster presented at Annual Drosophila Research Conference, Abstr 470B, Mar 28-Apr 1.
- Kuebler, D. (2012) *Expansion and Storage of Adipose Derived Stem Cells for Autologous Use*. Invited talk at Orthopedic Update Conference: Regenerative Medicine, Allegheny Health Systems, March 30- Apr 1.
- Kuebler, D. (2011) *The compatibility of evolution and design*. Paper presented at FUS Science and Faith Conference: Can Science Inform Our Understanding of God? Dec 2.

## SELECTED POPULAR PUBLICATIONS

- Kuebler, D.(2018) Genetic modification of embryos: The truth behind the research. *Catholic World Report*, Mar 21<sup>st</sup>.
- Kuebler, D. (2016) IVF, designer babies, and commodifying human life. *Public Discourse*, Apr 7<sup>th</sup>.
- Kuebler, D. (2014) Academic freedom, religious institutions and the state. *Public Discourse*, Nov 3<sup>rd</sup>.

- Kuebler, D. (2014) Catholic universities conduct research on rare diseases. *Crisis Magazine*, Sept 5<sup>th</sup>.
- Kuebler, D. (2014) Sugar and spice and.....sex-selective abortions? *Public Discourse*, Jan 9<sup>th</sup>.
- Kuebler, D. (2013) Americans and the clone-and kill mentality. *National Catholic Register*, Nov 23<sup>rd</sup>.
- Kuebler, D. (2013) Survey says: Women are for life. *Public Discourse*, Oct 30<sup>th</sup>.
- Kuebler, D. (2013) Memo to Lady Gaga: “Born this way” doesn’t mean act this way. *Public Discourse*, Apr 10<sup>th</sup>.
- Kuebler, D. (2012) Failing grade in social doctrine. *National Catholic Register*, Sept 4, Vol 88:21.
- Kuebler, D. (2012) Obama overreaches on HHS mandate. *National Catholic Register*, Feb 24, Vol 88:5.
- Kuebler, D. (2012).The reality of research. *National Catholic Register*, Jan 4, Vol 88:2.
- Kuebler, D. (2012) Franciscan, Ave Maria, and Obamacare.,*Public Discourse* June 13<sup>th</sup>.
- Kuebler, D. (2011) The case against pro-life physicians: Bias begins at medical school. *National Catholic Register*, Sept 13-26, Vol 87:18.
- Kuebler, D. (2010) Gut-check time for Catholic coaches. *National Catholic Register*, Sept 12-25, Vol 86:19.
- Kuebler, D. (2010) When reform deforms. *National Catholic Register*, Jan 2-8, Vol 86:1.
- Kuebler, D. (2009) The mess money made. *National Catholic Register*, May 10-16, Vol 85:19.
- Kuebler, D. (2009) Catholic pro-life politics. *National Catholic Register*, Jan 18-24, Vol 85:3.
- Kuebler, D. (2008) Battle over a single word. *National Catholic Register*, June 29-July 5, Vol 84:24.
- Kuebler, D. (2007) Stem cells simply. *National Catholic Register*, Dec 9-15, Vol 83:50.
- Kuebler, D. (2007) When death is part of life. *National Catholic Register*, Mar 11-17, Vol 83:12.
- Kuebler, D. (2006) What makes marriage special. *National Catholic Register*, Oct 22- Oct 28, Vol 82:43.
- Kuebler, D. (2005) For girls only: The steroids double standard. *National Catholic Register*, Nov 27-Dec 3, Vol 81:47.
- Kuebler, D. (2005) America and the academy. *National Catholic Register*, July 3-July 9, Vol 81:27.
- Kuebler, D. (2005) John Paul brought us face to face with Christ. *National Catholic Register*, Apr 17-Apr 23, Vol 81:16.
- Kuebler, D. (2005) California’s bad move. *National Catholic Register*, Jan 16-Jan 22, Vol 81:3.
- Kuebler, D. (2004) Our soldiers. *National Catholic Register*, May 23-29, Vol 80:21.
- Kuebler, D. (2004) Where Catholic universities can lead the way. *National Catholic Register*, Feb 1-7, Vol 80:5.

## MEMBERSHIPS and BOARDS

*Magis Center: Catholic Answers to Science, Faith and Reason*, Board Member: 2018 to present.  
*Society of Catholic Scientists*, Member: 2017 to present. Membership Committee: 2017 to present.

## PATENTS

Tanouye, M., Kuebler, D., and Zhang, H. Methods and composition for inducing, detecting and modulating seizure in an animal system. US Patent #6,521,462.