

Stanford



Antoine de Morree

Instructor, Neurology & Neurological Sciences

Bio

ACADEMIC APPOINTMENTS

- Instructor, Neurology & Neurological Sciences

COMMUNITY AND INTERNATIONAL WORK

- Stanford University Postdoctoral Association, Stanford

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Molecular mechanisms underlying neuromuscular disorders and the molecular regulation of satellite cell quiescence and activation in relation to normal aging.

Publications

PUBLICATIONS

- **Alternative polyadenylation of Pax3 controls muscle stem cell fate and muscle function.** *Science (New York, N.Y.)*
de Morree, A., Klein, J. D., Gan, Q., Farup, J., Urtasun, A., Kanugovi, A., Bilen, B., van Velthoven, C. T., Quarta, M., Rando, T. A.
2019; 366 (6466): 734–38
- **Single-cell transcriptomics of 20 mouse organs creates a Tabula Muris.** *Nature*
2018; 562 (7727): 367–72
- **Transcriptional Profiling of Quiescent Muscle Stem Cells In Vivo** *CELL REPORTS*
van Velthoven, C. J., de Morree, A., Egner, I. M., Brett, J. O., Rando, T. A.
2017; 21 (7): 1994–2004
- **Staufen1 inhibits MyoD translation to actively maintain muscle stem cell quiescence** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
de Morree, A., van Velthoven, C. J., Gan, Q., Salvi, J. S., Klein, J., Akimenko, I., Quarta, M., Biressi, S., Rando, T. A.
2017; 114 (43): E8996–E9005
- **Deltex2 represses MyoD expression and inhibits myogenic differentiation by acting as a negative regulator of Jmjd1c** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Luo, D., de Morree, A., Boutet, S., Quach, N., Natu, V., Rustagi, A., Rando, T. A.
2017; 114 (15): E3071–E3080
- **An artificial niche preserves the quiescence of muscle stem cells and enhances their therapeutic efficacy.** *Nature biotechnology*
Quarta, M., Brett, J. O., DiMarco, R., de Morree, A., Boutet, S. C., Chacon, R., Gibbons, M. C., Garcia, V. A., Su, J., Shrager, J. B., Heilshorn, S., Rando, T. A.
2016; 34 (7): 752–759

- **Outside the tower. A night at the museum.** *Science (New York, N.Y.)*
de Morrée, A.
2014; 345 (6194): 279
- **Dysferlin regulates cell adhesion in human monocytes.** *journal of biological chemistry*
de Morrée, A., Flix, B., Bagaric, I., Wang, J., van den Boogaard, M., Grand Moursel, L., Frants, R. R., Illa, I., Gallardo, E., Toes, R., van der Maarel, S. M.
2013; 288 (20): 14147-14157
- **Self-regulated alternative splicing at the AHNAK locus** *FASEB JOURNAL*
de Morree, A., Droog, M., Moursel, L. G., Bisschop, I. J., Impagliazzo, A., Frants, R. R., Klooster, R., van der Maarel, S. M.
2012; 26 (1): 93-103
- **Proteomic Analysis of the Dysferlin Protein Complex Unveils Its Importance for Sarcolemmal Maintenance and Integrity** *PLOS ONE*
de Morree, A., Hensbergen, P. J., van Haagen, H. H., Dragan, I., Deelder, A. M., 't Hoen, P. A., Frants, R. R., van der Maarel, S. M.
2010; 5 (11)
- **Calpain 3 Is a Rapid-Action, Unidirectional Proteolytic Switch Central to Muscle Remodeling** *PLOS ONE*
de Morree, A., Hulsik, D. L., Impagliazzo, A., van Haagen, H. H., de Galan, P., van Remoortere, A., 't Hoen, P. A., van Ommen, G. B., Frants, R. R., van der Maarel, S. M.
2010; 5 (8)
- **Calpain 3 is a modulator of the dysferlin protein complex in skeletal muscle** *HUMAN MOLECULAR GENETICS*
Huang, Y., de Morree, A., van Remoortere, A., Bushby, K., Frants, R. R., Dunnen, J. T., van der Maarel, S. M.
2008; 17 (12): 1855-1866
- **Exercise rejuvenates quiescent skeletal muscle stem cells in old mice through restoration of Cyclin D1** *NATURE METABOLISM*
Brett, J. O., Arjona, M., Ikeda, M., Quarta, M., de Morree, A., Egner, I. M., Perandini, L. A., Ishak, H. D., Goshayeshi, A., Benjamin, D. I., Both, P., Rodriguez-Mateo, C., Betley, et al
2020; 2 (4): 307-+
- **Exercise rejuvenates quiescent skeletal muscle stem cells in old mice through restoration of Cyclin D1.** *Nature metabolism*
Brett, J. O., Arjona, M., Ikeda, M., Quarta, M., de Morrée, A., Egner, I. M., Perandini, L. A., Ishak, H. D., Goshayeshi, A., Benjamin, D. I., Both, P., Rodríguez-Mateo, C., Betley, et al
2020; 2 (4): 307-17
- **Ageing hallmarks exhibit organ-specific temporal signatures.** *Nature*
Schaum, N., Lehallier, B., Hahn, O., Pálovics, R., Hosseinzadeh, S., Lee, S. E., Sit, R., Lee, D. P., Losada, P. M., Zardeneta, M. E., Fehlmann, T., Webber, J. T., McGeever, et al
2020
- **GREG cells, a dysferlin-deficient myogenic mouse cell line** *EXPERIMENTAL CELL RESEARCH*
Humphrey, G. W., Mekhedov, E., Blank, P. S., de Morree, A., Pekkurnaz, G., Nagaraju, K., Zimmerberg, J.
2012; 318 (2): 127-135
- **Comparison of Dysferlin Expression in Human Skeletal Muscle with That in Monocytes for the Diagnosis of Dysferlin Myopathy** *PLOS ONE*
Gallardo, E., de Luna, N., Diaz-Manera, J., Rojas-Garcia, R., Gonzalez-Quereda, L., Flix, B., de Morree, A., van der Maarel, S., Illa, I.
2011; 6 (12)
- **In silico discovery and experimental validation of new protein-protein interactions** *PROTEOMICS*
van Haagen, H. H., 't Hoen, P. A., de Morree, A., van Roon-Mom, W. M., Peters, D. J., Roos, M., Mons, B., van Ommen, G., Schuemie, M. J.
2011; 11 (5): 843-853
- **Novel Protein-Protein Interactions Inferred from Literature Context** *PLOS ONE*
van Haagen, H. H., 't Hoen, P. A., Bovo, A. B., de Morree, A., van Mulligen, E. M., Chichester, C., Kors, J. A., den Dunnen, J. T., van Ommen, G. B., Van der Maarel, S. M., Kern, V. M., Mons, B., Schuemie, et al
2009; 4 (11)
- **Insect lipoprotein biogenesis depends on an amphipathic beta cluster in apolipoprotein II/I and is stimulated by microsomal triglyceride transfer protein** *JOURNAL OF LIPID RESEARCH*
Smolenaars, M. M., de Morree, A., Kerver, J., Van der Horst, D. J., Rodenburg, K. W.

