Antoine de Morree
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Institut for Biomedicin - Forskning og uddannelse, Skou-bygningen
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Ansættelse

Lektor
Institut for Biomedicin - Forskning og uddannelse, Skou-bygningen
Aarhus Universitet
Aarhus C, Danmark
1 mar. 2024 → present

affiliate scientist
Stanford University
Menlo Park, USA
1 aug. 2021 → present

Kvalifikationer

Stem cell biology, Postdoctorate, Post-transcriptional regulation of muscle stem cell quiescence, Stanford University
1 feb. 2011 → 31 jan. 2018
Dimissionsdato: 31 jan. 2018

Human Genetics, PhD, Functional protein networks unifying limb girdle muscular dystrophy, Leiden University
1 nov. 2005 → 31 jan. 2011
Dimissionsdato: 12 jan. 2011

Biomolecular Sciences, MSc, Utrecht University
1 sep. 2003 → 31 aug. 2005
Dimissionsdato: 27 jun. 2005

Biomedical Sciences, BSc, Utrecht University
1 sep. 2000 → 31 aug. 2003

Priser

Science Magazine Assay Competition
de Morree, A. (Modtager), 5 jul. 2013

Stanford SURPAS Outstanding Advocate Award
de Morree, A. (Modtager), 16 dec. 2016

Bevillinger

Towards FSHD Therapeutics: Understanding Polyadenylation Site Choice
de Morree, A. (PI)
Muscular Dystrophy Association: 1.300.000,00 kr.
01/08/2015 → 31/07/2018

Aktiviteter

Limiting fatty infiltration in skeletal muscle
de Morree, A. (Foredragsholder)
7 nov. 2023

Prøve i Dansk 3
de Morree, A. (Deltager)
15 jun. 2023

Stressful environments and how to navigate them, Part 2
de Morree, A. (Foredragsholder)
26 maj 2023

Stressful environments and how to navigate them
de Morree, A. (Foredragsholder)
23 maj 2023

Using animal models to study Stem Cell Quiescence
de Morree, A. (Foredragsholder)
19 apr. 2023

Regulation of Stem Cell Quiescence in the Maintenance of Tissue Integrity
de Morree, A. (Foredragsholder)
11 apr. 2023

PhD thesis opposition
de Morree, A. (Eksaminator)
27 jan. 2023

Regulation of stem cell quiescence in the maintenace of tissue integrity (ingelesez)
de Morree, A. (Foredragsholder)
26 jan. 2023

Regulation of stem cell quiescence in the maintenance of tissue integrity
de Morree, A. (Foredragsholder)
19 jan. 2023

Cell Cycle (Tidsskrift)
de Morree, A. (Fagfællebedømmer)
2023 → …

Life Sciences (Tidsskrift)
de Morree, A. (Fagfællebedømmer)
2023 → …

Signal Transduction and Targeted Therapy (Tidsskrift)
de Morree, A. (Fagfællebedømmer)
2023 → …

Danish Diabetes Academy Postdoc Summit
de Morree, A. (Foredragsholder)
25 sep. 2022

Consultant on muscle biology research
de Morree, A. (Konsulent)
12 sep. 2022 → 11 sep. 2023

Aarhus University Pedagogical Program
de Morree, A. (Deltager)
24 aug. 2022 → 14 dec. 2022

Invited presentation
de Morree, A. (Foredragsholder)
2 aug. 2022

The Skeletal Muscle Stem Cells and Regeneration Conference
de Morree, A. (Foredragsholder)
28 jul. 2022

Neuroscience Theme Day
de Morree, A. (Foredragsholder)
18 maj 2022

Affiliate scientist
de Morree, A. (Deltager)
1 aug. 2021 → …

Consultant on FSHD research
de Morree, A. (Konsulent)
22 apr. 2021 → 31 dec. 2022

Certificate program in Applied Compassion Training
de Morree, A. (Deltager)
1 jan. 2020 → 15 nov. 2020

Supervisory Academy certificate program
de Morree, A. (Deltager)
7 sep. 2018 → 8 aug. 2019

Bio-protocol (Tidsskrift)
de Morree, A. (Redaktør)
3 feb. 2015 → 1 jul. 2025

Bio-protocol (Tidsskrift)
de Morree, A. (Redaktionsmedlem)
2015 → …

the reproducibility inititive: cancer biology (Ekstern organisation)
de Morree, A. (Medlem)
24 jan. 2014 → 9 dec. 2021

FASEB journal : official publication of the Federation of American Societies for Experimental Biology (Tidsskrift)
de Morree, A. (Fagfællebedømmer)
2014 → …

Grant reviewer for Italian Ministry of Health
de Morree, A. (Deltager)
12 jun. 2013 → …

Human Molecular Genetics (Tidsskrift)
de Morree, A. (Fagfællebedømmer)
2011 → …

European Journal of Human Genetics (Tidsskrift)
de Morree, A. (Fagfællebedømmer)
1 jan. 2010 → …

Presse/medie

Cell atlas will make it possible to transplant more types of organs in the future
de Morree, A.
07/06/2022
1 element af Mediedækning

EMPLOYEES' MENTAL HEALTH SHOULD BE PRIORITISED (EVEN) MORE
de Morree, A.
17/09/2021
1 element af Mediedækning

Et skridt tættere på et komplet atlas over menneskekroppen
de Morree, A.
14/06/2022
1 element af Mediedækning

Five Questions with FSHD Researcher Antoine de Morrée
de Morree, A.
14/10/2015
1 element af Mediedækning

Frank fra museet fikser brækket dinosaur-knogle
de Morree, A.
13/01/2023
1 element af Mediedækning

Neuroscience Theme Meeting
de Morree, A.
18/05/2022
1 element af Mediedækning

Old stem cells can be rejuvenated with young blood
de Morree, A.
17/03/2022
1 element af Mediedækning

Projekter

Differentiation potential of mesenchymal stem cells
de Morree, A. (PI)

How stem cells control the quiescent state, including entry, maintenance, and exit
de Morree, A. (PI)

Post-transcriptional control of gene expression
de Morree, A. (PI)

Stem cell therapeutics in muscular dystrophy
de Morree, A. (PI)

Undervisning og Vejledning

AU Bio-technology Masters Program

de Morree, A.
26/09/2023 → 26/09/2023

Bachelor thesis projects in biochemistry - written

de Morree, A.
01/09/2021 → 31/07/2024

Bachelor thesis projects - practical

de Morree, A.
01/09/2022 → 31/07/2025

Building Resilience Workshop

de Morree, A.
06/12/2021 → 06/12/2021

Building Resilience Workshop

de Morree, A.
08/12/2021 → 08/12/2021

Molekylære principper for celle- og organfunktioner

de Morree, A.
01/03/2022 → 01/10/2027

Publikationer

Absolute Quantification of mRNA Isoforms in Adult Stem Cells Using Microfluidic Digital PCR
Das Barman, S., Frimand, Z. & de Morree, A., sep. 2023, I: Bio-protocol. 13, 17, e4811.

Regulation of adult stem cell function by ketone bodies
Andersen, O. E., Poulsen, J. V., Farup, J. & de Morree, A., aug. 2023, I: Frontiers in Cell and Developmental Biology. 11, 9 s., 1246998.

Regulation of adult stem cell quiescence and its functions in the maintenance of tissue integrity
de Morree, A. & Rando, T. A., maj 2023, I: Nature Reviews. Molecular Cell Biology. 24, 5, s. 334-354 21 s.

Multiomics reveals glutathione metabolism as a driver of bimodality during stem cell aging
Benjamin, D. I., Brett, J. O., Both, P., Benjamin, J. S., Ishak, H. L., Kang, J., Kim, S., Chung, M., Arjona, M., Nutter, C. W., Tan, J. H., Krishnan, A. K., Dulay, H., Louie, S. M., de Morree, A., Nomura, D. K. & Rando, T. A., 7 mar. 2023, I: Cell Metabolism. 35, 3, s. 472-486.e6

Elevated CD47 is a hallmark of dysfunctional aged muscle stem cells that can be targeted to augment regeneration
Porpiglia, E., Mai, T., Kraft, P., Holbrook, C. A., de Morree, A., Gonzalez, V. D., Hilgendorf, K. I., Frésard, L., Trejo, A., Bhimaraju, S., Jackson, P. K., Fantl, W. J. & Blau, H. M., 1 dec. 2022, I: Cell Stem Cell. 29, 12, s. 1653-1668.e8 16 s.

Isolation of Quiescent Stem Cell Populations from Individual Skeletal Muscles
Frimand, Z., Das Barman, S., Kjær, T. R., Porpiglia, E. & de Morree, A., dec. 2022, I: Journal of Visualized Experiments. 190, e64557.

Fasting induces a highly resilient deep quiescent state in muscle stem cells via ketone body signaling
Benjamin, D. I., Both, P., Benjamin, J. S., Nutter, C. W., Tan, J. H., Kang, J., Machado, L. A., Klein, J. D. D., de Morree, A. , Kim, S., Liu, L., Dulay, H., Feraboli, L., Louie, S. M., Nomura, D. K. & Rando, T. A., 7 jun. 2022, I: Cell Metabolism. 34, 6 , s. 902-918.e6

Cell types of origin of the cell-free transcriptome
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium & Quake, S. R., jun. 2022, I: Nature Biotechnology. 40, 6, s. 855-861 7 s.

The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans
Tabula Sapiens Consortium*, 13 maj 2022, I: Science (New York, N.Y.). 376, 6594, s. eabl4896 abl4896.

Adversarial domain translation networks for integrating large-scale atlas-level single-cell datasets
Zhao, J., Wang, G., Ming, J., Lin, Z., Wang, Y., The Tabula Microcebus Consortium, Wu, A. R. & Yang, C., maj 2022, I: Nature Computational Science. 2, 5, s. 317-330 14 s.

ATR activity controls stem cell quiescence via the cyclin F-SCF complex
Salvi, J. S., Kang, J., Kim, S., Colville, A. J., de Morrée, A., Billeskov, T. B., Larsen, M. C., Kanugovi, A., van Velthoven, C. T. J., Cimprich, K. A. & Rando, T. A., maj 2022, I: Proceedings of the National Academy of Sciences (PNAS). 119, 18, s. e2115638119 e2115638119.

Molecular hallmarks of heterochronic parabiosis at single-cell resolution
Pálovics, R., Keller, A., Schaum, N., Tan, W., Fehlmann, T., Borja, M., Kern, F., Bonanno, L., Calcuttawala, K., Webber, J., McGeever, A., Tabula Muris Consortium, Luo, J., Pisco, A. O., Karkanias, J., Neff, N. F., Darmanis, S., Quake, S. R. & Wyss-Coray, T., mar. 2022, I: Nature. 603, 7900, s. 309-314 6 s.

RNA splicing programs define tissue compartments and cell types at single-cell resolution
Olivieri, J. E., Dehghannasiri, R., Wang, P. L., Jang, S., de Morree, A., Tan, S. Y., Ming, J., Ruohao Wu, A., Quake, S. R., Krasnow, M. A. & Salzman, J., 13 sep. 2021, I: eLife. 10, e70692.

Institutions' role in postpandemic support
de Morree, A. & Al'Ai, A., sep. 2021, I: Science. 373, 6561, s. 1318 1 s.

Magnetic: How Great Leaders Persuade and Inspire
de Morree, A., 14 jul. 2021

Becoming Magnetic: A Communication Handbook for Future Leaders
de Morree, A., 1 dec. 2020, Kendall/Hunt Publishing Co.

Ageing hallmarks exhibit organ-specific temporal signatures
The Tabula Muris Consortium, jul. 2020, I: Nature. 583, 7817, s. 596-602 7 s.

A single-cell transcriptomic atlas characterizes ageing tissues in the mouse
The Tabula Muris Consortium, jul. 2020, I: Nature. 583, 7817, s. 590-595 6 s.

Exercise rejuvenates quiescent skeletal muscle stem cells in old mice through restoration of Cyclin D1
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, M. J., Wyss-Coray, T. & Rando, T. A., apr. 2020, I: Nature Metabolism. 2, 4, s. 307-317 11 s.

Alternative polyadenylation of Pax3 controls muscle stem cell fate and muscle function
de Morree, A., Klein, J. D. D., Gan, Q., Farup, J., Urtasun, A., Kanugovi, A., Bilen, B., Van Velthoven, C. T. J., Quarta, M. & Rando, T. A., nov. 2019, I: Science. 366, 6466, s. 734-738 5 s.

Single-cell transcriptomics of 20 mouse organs creates a Tabula Muris
de Morree, A. & The Tabula Muris Consortium, 18 okt. 2018, I: Nature. 562, 7727, s. 367-372 6 s.

Transcriptional Profiling of Quiescent Muscle Stem Cells In Vivo
van Velthoven, C. T. J., de Morree, A., Egner, I. M., Brett, J. O. & Rando, T. A., 14 nov. 2017, I: Cell Reports. 21, 7, s. 1994-2004 11 s.

Staufen1 inhibits MyoD translation to actively maintain muscle stem cell quiescence
de Morrée, A., van Velthoven, C. T. J., Gan, Q., Salvi, J. S., Klein, J. D. D., Akimenko, I., Quarta, M., Biressi, S. & Rando, T. A., 24 okt. 2017, I: Proceedings of the National Academy of Sciences (PNAS). 114, 43, s. E8996-E9005

United We Stand
de Morree, A., Collman, F., Gordon, C. & Klabunde, M., 28 sep. 2017, I: Nature. 549, 555

Deltex2 represses MyoD expression and inhibits myogenic differentiation by acting as a negative regulator of Jmjd1c
Luo, D., de Morree, A., Boutet, S., Quach, N., Natu, V., Rustagi, A. & Rando, T. A., 11 apr. 2017, I: Proceedings of the National Academy of Sciences (PNAS). 114, 15, s. E3071-E3080

An artificial niche preserves the quiescence of muscle stem cells and enhances their therapeutic efficacy
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., jul. 2016, I: Nature Biotechnology. 34, 7, s. 752-9 8 s.

Outside the tower. A night at the museum
de Morrée, A., 18 jul. 2014, I: Science (New York, N.Y.). 345, 6194, s. 279

Science Time Travel
de Morree, A., 5 jul. 2013, I: Science. 341

Dysferlin regulates cell adhesion in human monocytes
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., 17 maj 2013, I: The Journal of Biological Chemistry. 288, 20, s. 14147-14157 11 s.

NextGen speaks [9]
De Morrée, A., 2013, I: Science. 341, 6141, s. 30 1 s.

GREG cells, a dysferlin-deficient myogenic mouse cell line
Humphrey, G. W., Mekhedov, E., Blank, P. S., de Morree, A., Pekkurnaz, G., Nagaraju, K. & Zimmerberg, J., 15 jan. 2012 , I: Experimental Cell Research. 318, 2, s. 127-35 9 s.

Self-regulated alternative splicing at the AHNAK locus
de Morrée, A., Droog, M., Grand Moursel, L., Bisschop, I. J. M., Impagliazzo, A., Frants, R. R., Klooster, R. & van der Maarel, S. M., jan. 2012, I: FASEB journal : official publication of the Federation of American Societies for Experimental Biology. 26, 1, s. 93-103 11 s.

In silico discovery and experimental validation of new protein-protein interactions
van Haagen, H. H. H. B. M., 't Hoen, P. A. C., de Morrée, A., van Roon-Mom, W. M. C., Peters, D. J. M., Roos, M., Mons, B., van Ommen, G.-J. & Schuemie, M. J., mar. 2011, I: Proteomics. 11, 5, s. 843-53 11 s.

Comparison of dysferlin expression in human skeletal muscle with that in monocytes for the diagnosis of dysferlin myopathy
Gallardo, E., de Luna, N., Diaz-Manera, J., Rojas-García, R., Gonzalez-Quereda, L., Flix, B., de Morrée, A., van der Maarel, S. & Illa, I., 2011, I: PLOS ONE. 6, 12, s. e29061

Proteomic analysis of the dysferlin protein complex unveils its importance for sarcolemmal maintenance and integrity
de Morrée, A., Hensbergen, P. J., van Haagen, H. H. H. B. M., Dragan, I., Deelder, A. M., 't Hoen, P. A. C., Frants, R. R. & van der Maarel, S. M., 5 nov. 2010, I: PLOS ONE. 5, 11, s. e13854

Calpain 3 is a rapid-action, unidirectional proteolytic switch central to muscle remodeling
de Morrée, A., Lutje Hulsik, D., Impagliazzo, A., van Haagen, H. H. H. B. M., de Galan, P., van Remoortere, A., 't Hoen, P. A. C., van Ommen, G. B., Frants, R. R. & van der Maarel, S. M., 4 aug. 2010, I: PLOS ONE. 5, 8, s. e11940

Novel protein-protein interactions inferred from literature context
van Haagen, H. H. H. B. M., 't Hoen, P. A. C., Botelho Bovo, A., de Morrée, A., van Mulligen, E. M., Chichester, C., Kors, J. A., den Dunnen, J. T., van Ommen, G.-J. B., van der Maarel, S. M., Kern, V. M., Mons, B. & Schuemie, M. J., 18 nov. 2009, I: PLOS ONE. 4, 11, s. e7894

Calpain 3 is a modulator of the dysferlin protein complex in skeletal muscle
Huang, Y., de Morrée, A., van Remoortere, A., Bushby, K., Frants, R. R., den Dunnen, J. T. & van der Maarel, S. M., 15 jun. 2008, I: Human Molecular Genetics. 17, 12, s. 1855-66 12 s.

Insect lipoprotein biogenesis depends on an amphipathic beta cluster in apolipophorin II/I and is stimulated by microsomal triglyceride transfer protein
Smolenaars, M. M. W., de Morrée, A., Kerver, J., Van der Horst, D. J. & Rodenburg, K. W., sep. 2007, I: Journal of Lipid Research. 48, 9, s. 1955-65 11 s.