



Andrea Cipriano

Instructor, Obstetrics & Gynecology - Reproductive Biology

 Curriculum Vitae available Online

Bio

BIO

Dr Andrea Cipriano is an instructor at the Stem Cell Institute and at the Ob/Gyn department at Stanford School of medicine. Since the beginning of his career he was driven by a deep interest in the complexities of life emerging from just a single cell, harboring all the instructions to produce a fully functional organism. His academic journey began with a Bachelor's in Biotechnology and progressed to a Master's in Genomic Biotechnology, where he delved into the intricate world of RNA. During his PhD, Andrea focused on long non-coding RNAs and their pivotal role in cell differentiation, a topic that continues to fascinate him in his current research. He works in the Sebastiano lab, and he is directing several projects, including studying the transcription factor TBX1 during development of the Pharyngeal endoderm, and exploring the impact of time on Chromatin Structure, particularly in the context of aging and its potential reversal. As an instructor, Andrea has been teaching for 4 years at the intensive CIRM stem cell class biology course. Teaching is a big passion that fuels his academic pursuits. His dedication to education stems from a deep-seated belief in the transformative power of knowledge, which is what initially propelled him into the academic world.

ACADEMIC APPOINTMENTS

- Instructor, Obstetrics & Gynecology - Reproductive Biology
- Member, Maternal & Child Health Research Institute (MCHRI)

Research & Scholarship

LAB AFFILIATIONS

- Vittorio Sebastiano, Sebastiano Lab (4/1/2019)

Teaching

COURSES

2024-25

- Stem Cell Biology and Applications: BIOS 224 (Aut)

2023-24

- Stem Cell Biology and Applications: BIOS 224 (Win)

Publications

PUBLICATIONS

- **Publisher Correction: Mechanisms, pathways and strategies for rejuvenation through epigenetic reprogramming.** *Nature aging*

- Cipriano, A., Moqri, M., Maybury-Lewis, S. Y., Rogers-Hammond, R., de Jong, T. A., Parker, A., Rasouli, S., Schöler, H. R., Sinclair, D. A., Sebastiano, V.
2024
- **Mechanisms, pathways and strategies for rejuvenation through epigenetic reprogramming.** *Nature aging*
Cipriano, A., Moqri, M., Maybury-Lewis, S. Y., Rogers-Hammond, R., de Jong, T. A., Parker, A., Rasouli, S., Schöler, H. R., Sinclair, D. A., Sebastiano, V.
2023
 - **Monolayer platform to generate and purify primordial germ-like cells in vitro provides insights into human germline specification.** *Nature communications*
Vijayakumar, S., Sala, R., Kang, G., Chen, A., Pablo, M. A., Adebayo, A. I., Cipriano, A., Fowler, J. L., Gomes, D. L., Ang, L. T., Loh, K. M., Sebastiano, V.
2023; 14 (1): 5690
 - **Targeting the Expression of Long Noncoding RNAs in Murine Satellite Cells from Single Myofibers** *BIO-PROTOCOL*
Macino, M., Biferali, B., Cipriano, A., Ballarino, M., Mozzetta, C.
2021; 11 (21)
 - **Epigenetic regulation of Wnt7b expression by the cis-acting long noncoding RNA Lnc-Rewind in muscle stem cells.** *eLife*
Cipriano, A., Macino, M., Buonaiuto, G., Santini, T., Biferali, B., Peruzzi, G., Colantoni, A., Mozzetta, C., Ballarino, M.
2021; 10
 - **Intronic Determinants Coordinate lncRNA Nuclear Activity through the Interaction with MATR3 and PTBP1** *CELL REPORTS*
Desideri, F., Cipriano, A., Petrezselyova, S., Buonaiuto, G., Santini, T., Kasperek, P., Prochazka, J., Janson, G., Paiardini, A., Calicchio, A., Colantoni, A., Sedlacek, R., Bozzoni, et al
2020; 33 (12): 108548
 - **HOTAIRM1 regulates neuronal differentiation by modulating NEUROGENIN 2 and the downstream neurogenic cascade.** *Cell death & disease*
Rea, J., Menci, V., Tollis, P., Santini, T., Armaos, A., Garone, M. G., Iberite, F., Cipriano, A., Tartaglia, G. G., Rosa, A., Ballarino, M., Laneve, P., Caffarelli, et al
2020; 11 (7): 527
 - **iPSC Modeling of RBM20-Deficient DCM Identifies Upregulation of RBM20 as a Therapeutic Strategy.** *Cell reports*
Briganti, F. n., Sun, H. n., Wei, W. n., Wu, J. n., Zhu, C. n., Liss, M. n., Karakikes, I. n., Rego, S. n., Cipriano, A. n., Snyder, M. n., Meder, B. n., Xu, Z. n., Millat, et al
2020; 32 (10): 108117