Stanford

Patricia Moussatche

CTSA Hub QA/QC Project Manager, Translational Research Operations

Bio

BIO

Patricia Moussatche has both industry and academic experience, and has been working as a Project/Program Manager since 2017. She has a Ph.D. in molecular and cellular biology and has worked with a variety of organisms, including bacteria, yeast, and plants, as well as mammalian adipocytes in cell cultures. Her broad range of research experience includes hormone signal transduction, structure-function analysis of metal-containing proteins, the biochemistry of nucleoside phosphorylation, and diagnostics kit development. Her management experience includes taking on the faculty administrative burden for reporting on funded projects and the mechanics of applying for funding.

CURRENT ROLE AT STANFORD

CTSA Hub QA/QC Program Manager

EDUCATION AND CERTIFICATIONS

- PhD, University of Florida , Plant Molecular & Cellular Biology (2004)
- BA, Bard College , Biology (1998)

Publications

PUBLICATIONS

- **Improving quality and efficiency of translational research: Environmental scan of adaptive capacity and preparedness of Clinical and Translational Science Award Program hubs** *JOURNAL OF CLINICAL AND TRANSLATIONAL SCIENCE*
  Shah, R. C., Hoyo, V., Moussatche, P., Volkov, B. B.
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- **Optimization of cationic (Q)-paper for detection of arboviruses in infected mosquitoes** *JOURNAL OF VIROLOGICAL METHODS*
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- **Multiplexed Isothermal Amplification Based Diagnostic Platform to Detect Zika, Chikungunya, and Dengue 1** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*
  Yaren, O., Alto, B. W., Bradley, K. M., Moussatche, P., Glushakova, L., Benner, S. A.
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- **A Single Deoxynucleoside Kinase Variant from Drosophila melanogaster Synthesizes Monophosphates of Nucleosides That Are Components of an Expanded Genetic System** *ACS SYNTHETIC BIOLOGY*
  Matsuura, M. F., Winiger, C. B., Shaw, R. W., Kim, M., Kim, M., Daugherty, A. B., Chen, F., Moussatche, P., Moses, J. D., Lutz, S., Benner, S. A.
  2017; 6 (3): 388-394
- **Alternative Watson-Crick Synthetic Genetic Systems** *COLD SPRING HARBOR PERSPECTIVES IN BIOLOGY*

Benner, S. A., Karalkar, N. B., Hoshika, S., Laos, R., Shaw, R. W., Matsuura, M., Fajardo, D., Moussatche, P.
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- **A norovirus detection architecture based on isothermal amplification and expanded genetic systems** *JOURNAL OF VIROLOGICAL METHODS*
  Yaren, O., Bradley, K. M., Moussatche, P., Hoshika, S., Yang, Z., Zhu, S., Karst, S. M., Benner, S. A.
  2016; 237: 64-71
- **Isothermal titration calorimetry uncovers substrate promiscuity of bicupin oxalate oxidase from Ceriporiopsis subvermispora.** *Biochemistry and biophysics reports*
  Rana, H., Moussatche, P., Rocha, L. S., Abdellaoui, S., Minteer, S. D., Moomaw, E. W.
  2016; 5: 396-400
- **Kinetic and Spectroscopic Studies of Bicupin Oxalate Oxidase and Putative Active Site Mutants**
  Moomaw, E. W., Hoffer, E., Moussatche, P., Salerno, J., Grant, M., Immelman, B., Uberto, R., Ozarowski, A., Angerhofer, A.
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- **Kinetic and Spectroscopic Studies of Bicupin Oxalate Oxidase and Putative Active Site Mutants** *PLOS ONE*
  Moomaw, E. W., Hoffer, E., Moussatche, P., Salerno, J. C., Grant, M., Immelman, B., Uberto, R., Ozarowski, A., Angerhofer, A.
  2013; 8 (3): e57933
- **Non-genomic progesterone signalling and its non-canonical receptor** *BIOCHEMICAL SOCIETY TRANSACTIONS*
  Moussatche, P., Lyons, T. J.
  2012; 40: 200-204
- **Phylogenetic and Preliminary Phenotypic Analysis of Yeast PAQR Receptors: Potential Antifungal Targets** *JOURNAL OF MOLECULAR EVOLUTION*
  Villa, N. Y., Moussatche, P., Chamberlin, S. G., Kumar, A., Lyons, T. J.
  2011; 73 (3-4): 134-152
- **Characterization of Ceriporiopsis subvermispora bicupin oxalate oxidase expressed in Pichia pastoris** *ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS*
  Moussatche, P., Angerhofer, A., Imaram, W., Hoffer, E., Uberto, K., Brooks, C., Bruce, C., Sledge, D., Richards, N. J., Moomaw, E. W.
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- **Metal Dependence of Oxalate Decarboxylase Activity** *BIOCHEMISTRY*
  Moomaw, E. W., Angerhofer, A., Moussatche, P., Ozarowski, A., Garcia-Rubio, I., Richards, N. J.
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- **Crystallographic snapshots of oxalyl-CoA decarboxylase give insights into catalysis by nonoxidative ThDP-dependent decarboxylases** *STRUCTURE*
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  2007; 15 (7): 853-861
- **Manganese-binding mutants of oxalate decarboxylase indicate that the active sites are not independent**
  Moomaw, E. W., Moussatche, P., Richards, N. J.
  AMER CHEMICAL SOC.2006
- **Structural basis for activation of the thiamin diphosphate-dependent enzyme oxalyl-CoA decarboxylase by adenosine diphosphate** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Berthold, C. L., Moussatche, P., Richards, N. G., Lindqvist, Y.
  2005; 280 (50): 41645-41654
- **Autophosphorylation activity of the Arabidopsis ethylene receptor multigene family** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Moussatche, P., Klee, H. J.
  2004; 279 (47): 48734-48741
- **Susceptible to intolerance - a range of hormonal actions in a susceptible Arabidopsis pathogen response** *PLANT JOURNAL*
  O'Donnell, P. J., Schmelz, E. A., Moussatche, P., Lund, S. T., Jones, J. B., Klee, H. J.
  2003; 33 (2): 245-257