Curriculum Vitae

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Educational Background

April 2009- March 2012: Department of Immunology, Graduate School of Pharmaceutical Sciences, Osaka University (Ph.D. degree)
April 2007- March 2009: Department of Immunology, Graduate School of Pharmaceutical Sciences, Osaka University (Master's degree)
April 2003-March 2007: School of Pharmaceutical Sciences, University of Shizuoka (Bachelor's degree)

Certificates

2008: Pharmacist's license

Publications

Original articles

(1) Sugatani J, Noguchi Y, Hattori Y, **Yamaguchi M**, Yamazaki Y, Ikari A.:
Threonine-408 Regulates the Stability of the Human Pregnane X Receptor Through its Phosphorylation and the CHIP/Chaperone-Autophagy Pathway.
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(2) **Yamaguchi M**, Watanabe Y, Ohtani T, Uezumi A, Mikami N, Nakamura M, Sato T, Ikawa M, Hoshino M, Tsuchida K, Miyagoe-Suzuki Y, Tsujikawa K, Takeda S, Yamamoto H, Fukada S.:
Calcitonin Receptor Signaling Inhibits Muscle Stem Cells from Escaping the

Quiescent State and the Niche.
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(3) Ikari A, Taga S, Watanabe R, Sato T, Shimobaba S, Sonoki H,Endo S, Matsunaga T, Sakai H, **Yamaguchi M**, Yamazaki Y, Sugatani J.:
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(4) **Yamaguchi M**, Murakami S, Yoneda T, Nakamura M, Zhang L, Uezumi A, Fukuda S, Kokubo H, Tsujikawa K, Fukada S.:
Evidence of Notch-Hesr-Nrf2 Axis in Muscle Stem Cells, but Absence of Nrf2 Has No Effect on Their Quiescent and Undifferentiated State.
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(5) Sonoki H, Sato T, Endo S, Matsunaga T, **Yamaguchi M**, Yamazaki Y, Sugatani J, Ikari A.:
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Involvement of a cyclic adenosine monophosphate-dependent signal in the diet-induced canalicular trafficking of adenosine triphosphate-binding cassette transporter g5/g8.
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(7) Ikari A, Fujii N, Hahakabe S, Hayashi H, **Yamaguchi M**, Yamazaki Y, Endo S, Matsunaga T, Sugatani J.: Hyperosmolarity-Induced Down-Regulation of Claudin-2 Mediated by Decrease in PKCβ-Dependent GATA-2 in MDCK Cells.
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(8) **Yamaguchi M**, Matsui M, Higa R, Yamazaki Y, Ikari A, Miyake M, Miwa M, Ishii S, Sugatani J, Shimizu T.
A platelet-activating factor (PAF) receptor deficiency exacerbates diet-induced obesity but PAF/PAF receptor signaling does not contribute to the development of obesity-induced chronic inflammation.
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(9) Ogawa R, Ma Y, **Yamaguchi M**, Ito T, Watanabe Y, Ohtani T, Murakami S, Uchida S, De Gaspari P, Uezumi A, Nakamura M, Miyagoe-Suzuki Y, Tsujikawa K, Hashimoto N, Braun T, Tanaka T, Takeda S, Yamamoto H, Fukada S.
Doublecortin marks a new population of transiently amplifying muscle progenitor cells and is required for myofiber maturation during skeletal muscle regeneration.
Development. 2015 Jan 1;142(1):51-61.

(10) Sugatani J, Hattori Y, Noguchi Y, **Yamaguchi M**, Yamazaki Y, Ikari A.
Threonine-290 regulates nuclear translocation of the human pregnane X receptor through its phosphorylation/dephosphorylation by Ca2+/calmodulin-dependent protein kinase II and protein phosphatase 1.
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FASEB J. 2014 Jan;28(1):440-52.

(14) Kanagawa M, Yu C, Ito C, Fukada S, Hozoji-Inada M, Chiyo T, Kuga A, Matuo M, Sato K, **Yamaguchi M**, Ito T, Katanosaka Y, Miyagoe-Suzuki Y, Naruse K, Kobayashi K, Okada T, Takeda S, Toda T:
Impaired viability of muscle precursor cells in muscular dystrophy with glycosylation defects and amelioration of its severe phenotype by limited gene expression.
Human Molecular Genetics, 2013 Aug;22(15):3003-15.

(15) Yamazaki Y, Yasuda K, Matsuyama T, Ishihara T, Higa R, Sawairi T, **Yamaguchi M**, Egi M, Akai S, Miyase T, Ikari A, Miwa M, Sugatani J.
A Penicillium sp. F33 metabolite and its synthetic derivatives inhibit acetyl-CoA:1-O-alkyl-sn-glycero-3-phosphocholine acetyltransferase (a key enzyme in platelet-activating factor biosynthesis) and carrageenan-induced paw edema in mice.
Biochem Pharmacol. 2013 Sep 1;86(5):632-44.

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Hyperosmolarity-induced up-regulation of claudin-4 mediated by NADPH oxidase-dependent H2O2 production and Sp1/c-Jun cooperation.
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(17) Sugatani J, Uchida T, Kurosawa M, **Yamaguchi M**, Yamazaki Y, Ikari A, Miwa M.
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(18) **Yamaguchi M**, Ogawa R, Watanabe Y, Uezumi A, Miyagoe-Suzuki Y, Tsujikawa K, Yamamoto H, Takeda S, Fukada SI.
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(19) Fukada S, **Yamaguchi M**, Kokubo H, Ogawa R, Uezumi A, Yoneda T, Matev MM, Motohashi N, Ito T, Zolkiewska A, Johnson RL, Saga Y, Miyagoe-Suzuki Y, Tsujikawa K, Takeda S, Yamamoto H.
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Development. 2011 Nov;138(21):4609-19.

(20) Uezumi A, Ito T, Morikawa D, Shimizu N, Yoneda T, Segawa M, **Yamaguchi M**, Ogawa R, Matev MM, Miyagoe-Suzuki Y, Takeda S, Tsujikawa K, Tsuchida K, Yamamoto H, Fukada S.
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(21) Fukada S, Morikawa D, Yamamoto Y, Yoshida T, Sumie N, **Yamaguchi M**, Ito T, Miyagoe-Suzuki Y, Takeda S, Tsujikawa K, Yamamoto H.
Genetic background affects properties of satellite cells and mdx phenotypes.
Am J Pathol. 2010 May;176(5):2414-24.

Reviews and Book

(1) **Yamaguchi M**, Fukada S.
Regulation of muscle stem cell quiescence and undifferentiated state: The role of Hesr1 and Hesr3.
TUMOR DORMANCY, QUIESCENCE, AND TISSUE SENESCENCE (eds. M.A. Hayat), Springer Book, (invited Review) 2013, Volume 1, p107-116, Springer, ISBN 978-94-007-5957-2

(2) Fukada S, **Yamaguchi M.**
Molecular mechanisms for maintaining muscle stem cells by quiescence-stage specific genes.
Frontiers in Skeletal Muscle Wasting, Regeneration and Stem Cell, Frontiers in Physiology (eds. Carlos Hermano da Justa Pinheiro, Lucas Guimaraes-Ferreira) (invited Review).

(3) Watanabe Y, **Yamaguchi M**, Fukada S.
Molecular regulation of muscle stem cells.
Seitai no Kagaku. 2013, Volume 64, p111-6. ISSN 0370-9531 (Print) ISSN 1883-5503 (Online) (in Japanese)

(4) **Yamaguchi M**, Otani T, Fukada S.
Transcriptional factor mediated regulatory networks in skeletal muscle development and regeneration.
Seikei Saigaigeka. 2013, Volume 56, p683-8. ISSN 0387-4095 (in Japanese)