

| 氏名    | 所属               | 職名 | 取得学位   | 専門分野                       | 主な論文・著作・業績                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------|------------------|----|--------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 田浦 太志 | 薬科学講座<br>天然物化学分野 | 教授 | 博士（薬学） | 天然医薬資源学<br>天然物化学<br>天然物生合成 | ①Tanaya R, Kodama T, Maneene J, Yasuno Y, Nakayama A, Shinada T, Takahashi H, Ito T, Morita H, Awale S, Taura F: Substrate-dependent alteration in the <i>C</i> - and <i>O</i> -prenylation specificities of <i>Cannabis</i> prenyltransferase. <i>Biol. Pharm. Bull.</i> , 47, 449–453 (2024)<br>②Tanaya R, Kodama T, Lee Y-E, Yasuno Y, Shinada T, Takahashi H, Ito T, Morita H, Awale S, Taura F: Catalytic potential of <i>Cannabis</i> prenyltransferase to expand cannabinoid scaffold diversity. <i>Org. Lett.</i> , 25, 8601–8605 (2023)<br>③Saeki H, Hara R, Takahashi H, Iijima M, Munakata R, Kenmoku H, Fuku K, Sekihara A, Yasuno Y, Shinada T, Ueda D, Nishi T, Sato T, Asakawa Y, Kurosaki F, Yazaki K, Taura F: A novel farnesyl diphosphate-specific aromatic prenyltransferase in <i>Rhododendron dauricum</i> functions in the biosynthetic pathway of daurichromenic acid. <i>Plant Physiol.</i> , 178, 535-551 (2018)<br>④Iijima M, Munakata R, Takahashi H, Kenmoku H, Nakagawa R, Kodama T, Asakawa Y, Abe I, Yazaki K, Kurosaki F, Taura F: Identification and characterization of daurichromenic acid synthase from <i>Rhododendron dauricum</i> . <i>Plant Physiol.</i> , 174, 2213–2230 (2017)<br>⑤令和6-8年度科学研究費補助金（基盤研究C）「植物由来新規ディールス・アルドラーゼの構造機能解析と非天然型パンデュラチンの創製」                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 浅野 孝  | 薬科学講座<br>天然物化学分野 | 助教 | 博士（薬学） | 天然資源系薬学<br>医療系薬学<br>生物分子化学 | ①Naoko Yoshimoto, Takashi Asano, Ayuna Kisanuki, Chihiro Kanno, Machiko Asanuma, Mami Yamazaki, Isao Fujii and Kazuki Saito: The ability of callus tissues induced from three <i>Allium</i> plants to accumulate health-beneficial natural products, <i>S</i> -alk(en)ylcysteine sulfoxides. <i>J. Nat. Med.</i> , 76, 803-810 (2022)<br>②Ryo Nakabayashi, Yutaka Yamada, Tomoko Nishizawa, Tetsuya Mori, Takashi Asano, Masanari Kuwabara and Kazuki Saito: Tandem Mass Spectrum Similarity-Based Network Analysis Using <sup>13</sup> C-Labeled and Non-labeled Metabolome Data to Identify the Biosynthetic Pathway of the Blood Pressure-Lowering Asparagus Metabolite Asparaptine A. <i>J. Agric. Food Chem.</i> , 69, 8571-8577 (2021)<br>③Isao Fujii, Makoto Hashimoto, Kaori Konishi, Akiko Unezawa, Haruka Sakuraba, Kenta Suzuki, Harue Tsushima, Miho Iwasaki, Satsuki Yoshida, Akane Kudo, Rina Fujita, Aika Hichiwa, Koharu Saito, Takashi Asano, Jun Ishikawa, Daigo Wakana, Yukihiro Goda, Ayumi Watanabe, Mamoru Watanabe, Yui Masumoto, Junichiro Kanazawa, Hajime Sato and Masanobu Uchiyama: Functional Analysis of a Biosynthetic Gene Cluster Demonstrates Role of Spontaneous Double Bicyclo - ring Formation Including $8\pi-6\pi$ Electrocyclization in Shimalactone Biosynthesis. <i>Angew. Chem. Int. Ed.</i> , 59, 8464-8470 (2020)<br>④Takashi Asano, Kanae Kobayashi, Emi Kashihara, Hiroshi Sudo, Ryosuke Sasaki, Yoko Iijima, Koh Aoki, Daisuke Shibata, Kazuki Saito and Mami Yamazaki: Suppression of camptothecin biosynthetic genes results in metabolic modification of secondary products in hairy roots of <i>Ophiorrhiza pumila</i> . <i>Phytochemistry</i> , 91, 128-139 (2013).<br>⑤平成27-29年度科学研究費補助金（若手研究B）「アルツハイマー病治療薬創製を志向した新規天然物リガンド生物合成システムの確立」 |