

Original Publications

- (295) Yoko Irukayama-Tomobe, Yasuhiro Ogawa, Hiromu Tominaga, Yukiko Ishikawa, Naoto Hosokawa, Yuki Kawabe, Shuntaro Uchida, Shinobu Ambai, Ryo Nakajima, Tsuyoshi Saito, Takeshi Sakusai, Hiroshi Nagase, and Masashi Yanagisawa, A non-peptide orexin type 2 receptor agonist ameliorates narcolepsy-cataplexy symptom in mouse model, *PNAS*, *114* (22), 5731-5736, **2017**. IF: 9.423,
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- (290) Leo Gotoh, Akiyoshi Saitoh, Misa Yamada, Hideaki Fujii, Hiroshi Nagase, Mitsuhiko Yamada, Effects of repeated treatment with a delta opioid receptor agonist KNT-127 on hyperemotionality in olfactory-bulbectomized rats, *Behav. Brain Res.*, *323*, 11-14 **2017**.
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Invited Lectures

- (53) 小野薬品工業株式会社
演題：オレキシン受容体リガンドの探索研究
日時：2016年11月2日
- (52) 厚木市皮膚科医会例会
演題：ナルフラフィンの研究開発と新規痒みの機序の解明
日時：2016年10月20日
- (51) 富山化学工業株式会社
演題：ナルフラフィンの研究開発、オレキシン受容体リガンドの探索研究、トリプレト薬の研究と化合物ライブラリーへの応用
日時：2016年10月14日
- (50) The 12th JSH Single Topic Conference
演題：Design and Synthesis of Nalfurafine for an Antipruritic Drug for Chronic liver Disease Patients and kidney Dialysis Patients

- 日時：2016年9月23日
- (49) Tsukuba Global Science Week 2016
演題：Design and Synthesis of Orexin 2 Receptor Agonists
日時：2016年9月19日
- (48) FIP2016
演題：The science and the development of non-addictive opioid receptor agonists
日時：2016年8月30日
- (47) 第36回鎮痛薬・オピオイドペプチシンポジウム
演題：オレキシン2受容体作動薬の設計・合成
日時：2016年8月19日
- (46) Orexin Expert Forum
演題：医薬標的としてのオレキシン系
日時：2016年7月16日
- (45) 日本睡眠学会第41回定期学術集会
演題：オレキシン受容体作動薬：創薬への展望
日時：2016年7月7日
- (44) 第13回GPCR研究会
演題： κ 受容体拮抗薬ナルフラフィンの開発と痒みの発生機序
日時：2016年5月13日
- (43) 技術情報協会
演題：難治性搔痒症治療薬の研究開発と痒みの最新メカニズム
日時：2016年4月19日
- (42) 全薬工業株式会社
演題：オレキシン作動薬の設計・合成と薬理作用
日時：2016年3月11日
- (41) 脳・肝インターフェースメディシン研究センター シンポジウム
演題：オレキシン2受容体選択的作動薬の研究開発とその薬理作用
演題：Design and Synthesis of OX2R selective agonists and their pharmacologies
日時：2016年3月7日
- (40) 持田製薬株式会社創薬研究所
演題：オレキシン関連創薬
日時：2016年1月19日
- (39) Pacifichem 2015
演題：Design and synthesis of novel ligands of opioid receptors
日時：2015年12月17日

- (38) 第133回日本薬理学会関東部会ミニシンポジウム
演題：ナルフラフィンのOX1R拮抗作用とU-50488Hの嫌悪作用との関係
日時：2015年10月10日
- (37) 第18回近畿薬剤師学術大会 in 神戸
演題：患者ニーズに根ざした新薬開発 – 難治性そう痒症治療薬を例にして –
日時：2015年8月30日
- (36) テンプル大学
演題：Study and Development of Opioid κ Agonist, Nalfurafine and their Clinical Effects
日時：2015年7月27日
- (35) Drug Discovery & Therapy World Congress 2015
演題：DESIGN AND SYNTHESIS OF NOVEL δ OPIOID AGONISTS AND THEIR PHARMACOLOGIES
日時：2015年7月23日
- (34) 北海道大学
演題：難治性搔痒症治療薬ナルフラフィンの研究開発
日時：2015年7月16日
- (33) 大日本住友製薬株式会社
演題：難治性そう痒治療薬の研究開発
日時：2015年7月6日
- (32) 富士フィルム株式会社
演題：難治性そう痒治療薬の研究開発と痒みの最新メカニズム
日時：2015年6月30日
- (31) 株式会社 技術情報協会
演題：痒みの最新メカニズムと難治性搔痒症治療薬のポイント
日時：2015年3月31日
- (30) 第88回日本薬理学会年会
演題： δ 作動薬の設計・合成
日時：2015年3月20日
- (29) 脳肝インターフェースメディスンセンター 分子神経科学部門シンポジウム 2015
演題：難治性搔痒症治療薬ナルフラフィンの研究開発とその作用機序
日時：2015年3月13日
- (28) ライフイノベーション学位プログラム 第二回シンポジウム
演題：Study and development of opioid κ agonist, nalfurafine and their clinical effects
日時：2015年1月21日

- (27) DPhG Jahrestagung 2014
演題：Synthesis of a novel opioid receptor agonist, SYK-146 with 1,3,5-trioxazatriquinane skeleton and its pharmacologies
日時：2014年9月23日～26日
- (26) 都学研国際シンポジウム, 2014年9月4日～6日(東京)
演題：design and synthesis of novel ligands for opioid receptors
日時：2014年9月4日～6日
- (25) 協和発酵キリン
演題：ナルフラフィンの研究開発と最近の研究
日時：2014年8月22日
- (24) 鳥居薬品
演題：難治性掻痒症治療薬レミッチカプセルの創出
日時：2014年7月24日
- (23) R&D支援センター
演題：難治性掻痒症治療薬の研究開発と臨床試験のポイント
日時：2014年6月24日
- (22) University of Minnesota
演題：Design and Synthesis of Opioid Receptor Type Selective Ligands
日時：2014年6月
- (21) 大正製薬 医薬化学研究所
演題：オピオイド受容体タイプ選択的薬物の研究開発
日時：2014年6月6日
- (20) 金沢大学
演題：2つの独創的新薬(ドルナー、ナルフラフィン)の創製
日時：2014年5月22日
- (19) 東レ株式会社
演題：オピオイド選択的薬物の設計と合成
日時：2014年2月28日
- (18) 全薬工業株式会社 中央研究所
演題：創薬化学探索研究から開発まで
日時：2014年2月14日
- (17) 名古屋大学トランスフォーメティブ生命分子研究所 (ITbM)
演題：ベラプロスト、ナルフラフィンの開発とオレキシン作動薬の研究
日時：2014年2月5日
- (16) 住友化学 健康・農業関連事業研究所
演題：プロスタグランジンおよびオピオイド系医薬の創薬研究

- 日時：2014年1月31日
- (15) 有機合成化学協会関東支部ミニシンポジウム千葉2013
演題：オピオイド受容体タイプ選択的リガンドの設計・合成
日時：2013年11月18日
- (14) The 2nd HBP Symposium at Tsukuba Global Science Week 2013
演題：Synthesis of Novel Triplets with 1,3,5-Trioxazatriquinane Skeleton Using Nitrogen Clamp
日時：2013年10月2日
- (13) 第7回日本緩和医療薬学会年会
演題：2つの薬が世に出るまで：安定型プロスタグランジン I₂ 誘導体（ドルナー）および難治性掻痒症治療薬レミッチカプセルの探索研究から発売まで
日時：2013年9月15日
- (12) 国立がん研究センター研究所
演題：オピオイド受容体拮抗薬の原虫症治療薬としての効果およびその作用機序（癌治療薬としての可能性）
日時：2013年8月26日
- (11) 旭化成ファーマ株式会社
演題：ベラプロストとナルフラフィンの研究開発
日時：2013年7月26日
- (10) 田辺三菱研究所
演題：ドルナーとナルフラフィンの研究開発
日時：2013年7月4日
- (9) 日本透析医学会学術集会・総会
演題：熾烈な新薬開発競争を振り返って～□受容体作動薬（モルヒネから依存性を分離した薬物）はどう創製されたか～
日時：2013年6月21日
- (8) 東レ医薬研究所
演題：オピオイド受容体選択的薬物の設計と合成
日時：2013年3月19日
- (7) 全薬工業株式会社
κ オピオイド受容体作動薬ナルフラフィン塩酸塩の研究開発
日時：2013年3月8日
- (6) 筑波大学
分子行動科学研究コア医科学セミナー
演題：難治性掻痒症治療薬・ナルフラフィン塩酸塩の研究開発
日時：2012年11月21日

- (5) 東京大学弥生講堂 第17回分生研シンポジウムアカデミア創薬～分子標的と化合物の力～
演題：難治性咳嗽治療薬、TRK-851の研究開発
日時：2012年10月29日
- (4) New Trends in Pain Research from Basic Research to Clinical Translation
Invited Opening Lecture in Italy
演題：Translational Research in Itching: Research and Development of nalfurafine Hydrochloride and its Application to Kidney Dialysis Patients with intractable pruritus.
日時：2012年9月13日
- (3) 技術情報協会セミナー痒みのメカニズム/評価法と新薬開発戦略
演題：難治性掻痒症治療薬ナルフラフィン塩酸塩の研究開発
日時：2012年8月20日
- (2) 日本薬理学会関東支部会招待講演
演題：ナルフラフィン塩酸塩の研究開発
日時：2012年7月14日
- (1) Wuxi pharma Tech社（上海の合成/アッセイ・GLP対応試験受託会社）招待講演
演題：Design and Synthesis of a Novel Antipruritic Agent, Nalfurafine Hydrochloride.
日時：2012年6月4日

Patents

- (25) オレキシン1受容体拮抗薬
2015-212553
長瀬 博、山本 直司、入鹿山 容子、斉藤 毅
- (24) スルホンアミド誘導体またはその薬学的に許容される酸付加塩
2015-119785
長瀬 博、柳沢 正史、斉藤 毅、沓村 憲樹、入鹿山 容子
- (23) モルヒナン誘導体
特願 2015-54079
長瀬 博、藤井 秀明、斎藤 顕宜、中田 恵理子、廣瀬 雅朗、大井 勲、林田 康平
- (22) アミド誘導体またはその薬学的に許容される酸付加塩
2015-31041
柳沢正史、長瀬 博、入鹿山 容子、斉藤 毅

- (21) スルホンアミド誘導体またはその薬学的に許容される酸付加塩
PCT/JP2014/082961
長瀬 博、永原 崇志
- (20) オレキシン受容体拮抗剤
特願 2014-222969
長瀬 博、入鹿山 容子、小川 靖裕、宮本 美津子、新田 一功
- (19) ナルフラフィン含有局所適用製剤
特願 2014-201237
長瀬 博、佐伯 健、下山 潤、多田 麻希子
- (18) スルホンアミド誘導体またはその薬学的に許容される酸付加塩
特願 2013-257523
長瀬 博、永原崇志
- (17) プロペラン誘導体
特願 2013-66941
長瀬 博、藤井秀明
- (16) モルヒナン誘導体
特願 2013-47325
長瀬 博、藤井秀明、中田恵理子、渡辺義和、高橋俊弘
- (15) モルヒナン誘導体
特願 2013-47324
長瀬 博、藤井秀明、中田恵理子、渡辺義和、高橋俊弘
- (14) プロペラン誘導体
特願 2013-12104
長瀬 博、藤井秀明
- (13) モルヒナン誘導体
特願 2012-72868
長瀬 博、藤井秀明、中田恵理子、渡辺義和、高橋俊弘
- (12) モルヒナン誘導体
特願 2012-168402
長瀬 博、藤井秀明、中田恵理子、渡辺義和、高橋俊弘
- (11) モルヒナン誘導体
特願 2012-168401
長瀬 博、藤井秀明、中田恵理子、渡辺義一、高橋俊弘
- (10) モルヒナン誘導体
特願 2012-51741
中田恵理子、藤井秀明、長瀬 博

- (9) 掻痒症改善経皮吸収貼付類
特願 2012—9168
長瀬 博、有吉知加子、原 和好、丸山 喜通
- (8) ジフェニルメチルピペラジン誘導体およびそれを含有する医薬組成物
特許番号：第 4782441 号
竹内 勤、長瀬 博、長 由美子、小林 正規
- (7) 6,14-エポキシモルヒナン誘導体及びその医薬用途
特開 2009—51749
長谷部 光、中島 真弓、長瀬 博
- (6) オキサビシクロ「2. 2. 2」オクタンを骨格とするモルヒナン誘導体及びその医薬用途
特開 2009—196933
長谷部 光、中島 真弓、長瀬 博
- (5) 4a,9a-架橋-ヘキサヒドロ-1H-インデノピリジン誘導体、その医薬用途、及びその製造方法
特開 2008—179556
木綿 しのぶ、泉本 直樹、長瀬 博
- (4) ピロール縮合モルヒナン誘導体及びその医薬用途
特開 2008—179554
長谷部 光、木綿 しのぶ、長瀬 博
- (3) 薬剤耐性解除用の医薬
特開 2008—37790
長瀬 博、長 由美子、竹内 勤、小林 正規、狩野 繁之
- (2) オピオイドδ受容体アゴニスト
特願 2008—522628
長瀬 博 (国際出願 WO 2008/001859 A1) .
- (1) 止痒剤
特願 2002—311186
長瀬 博、内海 潤、遠藤 孝、田中 利明、川村 邦明