

# Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) - Pipeline Review, H2 2018

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## Abstracts

Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) - Pipeline Review, H2 2018

### SUMMARY

Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) pipeline Target constitutes close to 26 molecules. Out of which approximately 19 molecules are developed by companies and remaining by the universities/institutes. The latest report Metabotropic Glutamate Receptor 5 - Pipeline Review, H2 2018, outlays comprehensive information on the Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) targeted therapeutics, complete with analysis by indications, stage of development, mechanism of action (MoA), route of administration (RoA) and molecule type.

Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) - Metabotropic glutamate receptor 5 (mGluR5) is a G protein-coupled receptor. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling activates a phosphatidylinositol calcium second messenger system and generates a calcium activated chloride current. mGluR5 plays an important role in the regulation of synaptic plasticity and the modulation of the neural network activity. The molecules developed by companies in Phase II, Phase I, Preclinical and Discovery stages are 5, 1, 11 and 2 respectively.

Similarly, the universities portfolio in Preclinical stages comprises 7 molecules, respectively. Report covers products from therapy areas Central Nervous System and

Genetic Disorders which include indications Anxiety Disorders, Depression, Schizophrenia, Autism, Cognitive Impairment Associated With Schizophrenia (CIAS), Drug-Induced Dyskinesia, Dyskinesia, Fragile X Syndrome, Major Depressive Disorder, Pervasive Developmental Disorder (PDD), Alcohol Addiction, Alzheimer's Disease, Attention Deficit Hyperactivity Disorder (ADHD), Cognitive Disorders, Cognitive Impairment, Dementia, Mania, Neurology, Opium (Opioid) Addiction, Pain, Parkinson's Disease, Rett Syndrome and Spasmodic Torticollis (Cervical Dystonia).

Furthermore, this report also reviews key players involved in Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) targeted therapeutics development with respective active and dormant or discontinued projects. Driven by data and information sourced from proprietary databases, company/university websites, clinical trial registries, conferences, SEC filings, investor presentations and featured press releases from company/university sites and industry-specific third party sources.

**Note:** Certain content/sections in the pipeline guide may be removed or altered based on the availability and relevance of data.

## SCOPE

The report provides a snapshot of the global therapeutic landscape for Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5)

The report reviews Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) targeted therapeutics under development by companies and universities/research institutes based on information derived from company and industry-specific sources

The report covers pipeline products based on various stages of development ranging from pre-registration till discovery and undisclosed stages

The report features descriptive drug profiles for the pipeline products which includes, product description, descriptive MoA, R&D brief, licensing and collaboration details & other developmental activities

The report reviews key players involved in Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) targeted therapeutics and enlists all their major and minor projects

The report assesses Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) targeted therapeutics based on mechanism of action (MoA), route of administration (RoA) and molecule type

The report summarizes all the dormant and discontinued pipeline projects

The report reviews latest news and deals related to Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) targeted therapeutics

## **REASONS TO BUY**

Gain strategically significant competitor information, analysis, and insights to formulate effective R&D strategies

Identify emerging players with potentially strong product portfolio and create effective counter-strategies to gain competitive advantage

Identify and understand the targeted therapy areas and indications for Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5)

Identify the use of drugs for target identification and drug repurposing

Identify potential new clients or partners in the target demographic

Develop strategic initiatives by understanding the focus areas of leading companies

Plan mergers and acquisitions effectively by identifying key players and it's most promising pipeline therapeutics

Devise corrective measures for pipeline projects by understanding Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) development landscape

Develop and design in-licensing and out-licensing strategies by identifying prospective partners with the most attractive projects to enhance and expand business potential and scope

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Involved in Therapeutics Development

Addex Therapeutics Ltd

Aevi Genomic Medicine Inc

Bristol-Myers Squibb Co

Eisai Co Ltd

Eli Lilly and Co

Heptares Therapeutics Ltd

Johnson & Johnson

Merz Pharma GmbH & Co KgaA

Novartis AG

Richter Gedeon Nyrt

Sumitomo Dainippon Pharma Co Ltd

Toray Industries Inc

Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) - Drug Profiles

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Mechanism Of Action

R&D Progress

alloswitch-1 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

arbaclofen - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

BMS-952048 - Drug Profile

Product Description

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R&D Progress

BMS-955829 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

dipraglurant ER - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

dipraglurant IR - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

DSR-98776 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

fasoracetam - Drug Profile

Product Description

Mechanism Of Action

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GET-73 - Drug Profile

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Mechanism Of Action

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HTL-14242 - Drug Profile

Product Description

Mechanism Of Action

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JNJ-46778212 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

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Product Description

Mechanism Of Action

R&D Progress

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Drug Profile

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Product Description

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Small Molecules to Antagonize mGluR5 for Anxiety - Drug Profile

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Product Description

Mechanism Of Action

R&D Progress

## Small Molecules to Antagonize mGLUR5 for Central Nervous System Disorders - Drug Profile

Product Description

Mechanism Of Action

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## Metabotropic Glutamate Receptor 5 (GPRC1E or MGLUR5 or GRM5) - Dormant Products

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### Featured News & Press Releases

Jul 19, 2018: Aevi Genomic Medicine Announces Novel Co-crystal Version of AEVI-001

Jun 12, 2018: Aevi Genomic Medicine Provides Update on Sample Size Re-estimation for Phase 2 ASCEND Trial in ADHD

May 10, 2017: Aevi Genomic Medicine Announces Plans to Initiate Phase 2 Clinical Trial to Confirm Genetic Responders to AEVI-001

Apr 20, 2017: Aevi Genomic Medicine Presents Updated Results from SAGA Trial of AEVI-001 at the 6th World Congress on ADHD

Apr 12, 2017: Aevi Genomic Medicine to Present Updated Results from SAGA Trial of AEVI-001 at the 6th World Congress on ADHD

Mar 20, 2017: Aevi Genomic Medicine Provides Top-line Results from the SAGA Trial of AEVI-001

Jan 31, 2017: Aevi Genomic Medicine Announces Enrollment of First Patient in Phase 1/2 Clinical Trial of AEVI-001 in 22q Deletion Syndrome

Jan 04, 2017: Aevi Genomic Medicine Announces Completion of Enrollment for Phase 2/3 SAGA Clinical Trial of AEVI-001 (NFC-1) in mGluR+ ADHD Adolescents

Oct 29, 2016: Medgenics Presents New Data Showing Prevalence of Genetic Mutations in Pediatric Populations with Attention Deficit Hyperactivity Disorder

Oct 17, 2016: Addex Therapeutics to Conduct Phase IIa Proof of Concept Study of Dipraglurant in Focal Cervical Dystonia

Jun 17, 2016: Medgenics Announces Enrollment of First Patient in Phase 2/3 Clinical Trial of NFC-1 in Adolescents With mGluR Mutation Positive ADHD

Jun 02, 2016: Addex Dipraglurant Positive Phase 2 Data in PD-LID Published in Leading Peer Reviewed Journal of the Movement Disorder Society

Apr 11, 2016: Addex Reports Positive Results of an mGlu5 Receptor Occupancy Study with Dipraglurant in Healthy Volunteers

Mar 15, 2016: Addex Reports Successful Completion of an mGlu5 Receptor Occupancy Study with Dipraglurant in Healthy Volunteers

Jan 11, 2016: Addex Dipraglurant Shows Highly Statistically Significant Anti-Dyskinetic Effects Following Additional Analysis of Data from the PD-LID Phase II Proof of Concept

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Number of Products by Stage and Route of Administration, H2 2018

Number of Products by Stage and Molecule Type, H2 2018

### COMPANIES MENTIONED

Addex Therapeutics Ltd

Aevi Genomic Medicine Inc

Bristol-Myers Squibb Co

Eisai Co Ltd

Eli Lilly and Co

Heptares Therapeutics Ltd

Johnson & Johnson

Merz Pharma GmbH & Co KgaA

Novartis AG

Richter Gedeon Nyrt

Sumitomo Dainippon Pharma Co Ltd

Toray Industries Inc

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