

Filed on behalf of: Par Pharmaceutical, Inc. et al.

Entered: October 27, 2017

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

PAR PHARMACEUTICAL, INC., ARGENTUM PHARMACEUTICAL LLC,
AND WEST-WARD PHARMACEUTICALS INTERNATIONAL LIMITED,
Petitioners

v.

NOVARTIS AG
Patent Owner

Case IPR2016-01479¹
U.S. Patent No. 9,006,224

Before LORA M. GREEN, CHRISTOPHER L. CRUMBLEY, and
ROBERT A. POLLOCK, *Administrative Patent Judges*.

PETITIONERS' ORAL ARGUMENT DEMONSTRATIVES

¹ Argentum Pharmaceutical LLC was joined as a party to this proceeding via a Motion for Joinder in IPR2017-01063; West-Ward Pharmaceuticals International Limited was joined as a party via a Motion for Joinder in IPR2017-01078.

**Par Pharmaceuticals, Inc., Argentum
Pharmaceutical LLC, and West-Ward
Pharmaceuticals International Ltd.,**

Petitioners

v.

Novartis AG,
Patent Owner

IPR2016-01479, IPR2017-01063, IPR2017-01078

U.S. Patent No. 9,006,224

Oral Argument

November 1, 2017

'224 Patent Claims Methods of Using Everolimus to Treat PNETs

1. A method for treating pancreatic neuroendocrine tumors comprising administering to a human subject in need thereof

a therapeutically effective amount of [everolimus]

as a monotherapy

and wherein the tumors are advanced tumors

after failure of cytotoxic chemotherapy.

Claim Construction of '224 Patent

DECISION Institution of *Inter Partes* Review

For these reasons, we adopt the parties' proposed construction for "advanced," as meaning "metastatic or unresectable."

Inst. Dec. at 7

v.

NOVARTIS AG,
Patent Owner.

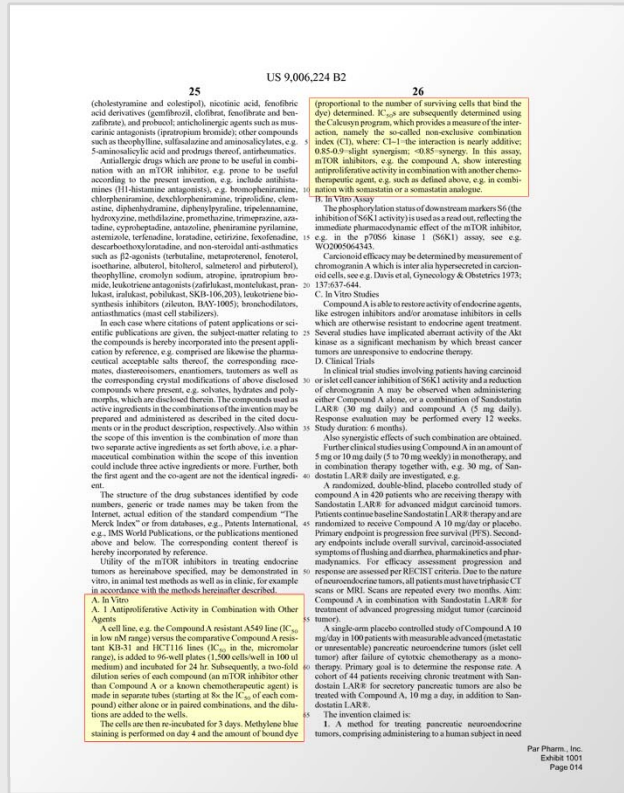
Case IPR2016-01479
Patent 9,006,224 B2

Before LORA M. GREEN, CHRISTOPHER L. CRUMBLY, and
ROBERT A. POLLOCK, *Administrative Patent Judges*.

CRUMBLY, *Administrative Patent Judge*.

DECISION
Institution of *Inter Partes* Review
35 U.S.C. § 314(a) and 37 C.F.R. § 42.108

'224 Patent Specification Examples



A. In Vitro

A. 1 Antiproliferative Activity in **Combination** with Other Agents

A cell line, e.g. the Compound A resistant A549 line (IC₅₀ in low nM range) versus the comparative Compound A resistant KB-31 and HCT116 lines (IC₅₀ in the, micromolar range), is added to 96-well plates (1,500 cells/well in 100 ul medium) and incubated for 24 hr. Subsequently, a two-fold dilution series of each compound (an mTOR inhibitor other than Compound A or a known chemotherapeutic agent) is made in separate tubes (starting at 8x the IC₅₀ of each compound) either alone or in paired combinations, and the dilutions are added to the wells.

The cells are then re-incubated for 3 days. Methylene blue staining is performed on day 4 and the amount of bound dye (proportional to the number of surviving cells that bind the dye) determined. IC₅₀s are subsequently determined using the CalcuSyn program, which provides a measure of the interaction, namely the so-called non-exclusive combination index (CI), where: CI~1=the interaction is nearly additive; 0.85-0.9=slight synergism; <0.85=synergy. In this assay, mTOR inhibitors, e.g. the compound A, show interesting antiproliferative activity in combination with another chemotherapeutic agent, e.g. such as defined above, e.g. in combination with somastatin or a somastatin analogue.

Ex. 1001 at 25:54-26:10

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