IO-001 study, AACR abstract: First in human study with EOS100850, a novel potent A_{2A} antagonist, shows excellent tolerance and clinical benefit in immune resistant advanced cancers.

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Author Disclosure Information

- L. Buisseret: AstraZeneca; Bristol-Myers Squibb; Roche
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IO-001 study: First in human study with EOS100850 (EOS-850), a novel potent A_{2A}R antagonist, shows excellent tolerance and clinical benefit in immune resistant advanced cancers. AACR Abstract #: 10228



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EOS-850 was well tolerated across all doses tested

- 21 patients were enrolled at 5 dose levels and completed the DLT evaluation
- No DLTs observed and no grade 3/4 drug-related TEAE
- 5 patients remain on treatment; the remaining patients discontinued due to disease progression

Treatment-Emergent Adverse Events (n=21)	Drug- Related	Any Attribution
	Number of Patients (%)	
Any Grade	15 (71.4%)	21 (100.0%)
Grade 1-2	15 (71.4%)	21 (100.0%)
Grade 3-4	0 (0.0%)	8 (38.1%)
Grade 5	0 (0.0%)	0 (0.0%)
Led to discontinuation	0 (0.0%)	2 (9.5%)

Drug Related TEAEs (Grade 1-2), n=21	Number of Patients (%)
Fatigue	6 (28.6%)
Alanine aminotransferase increased	4 (19.0%)
Decreased appetite	4 (19.0%)
Aspartate aminotransferase increased	3 (14.3%)
Diarrhoea	3 (14.3%)
Gamma-glutamyltransferase increased	2 (9.5%)
Blood alkaline phosphatase increased	1 (4.8%)
Hyperbilirubinaemia	1 (4.8%)
Constipation	1 (4.8%)
Myalgia	1 (4.8%)
Dizziness	1 (4.8%)
Eosinophilia	1 (4.8%)
Interstitial Pneumonitis	1 (4.8%)
Flushing	1 (4.8%)

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Good Pharmacokinetics and Prolonged Pharmacodynamics of EOS-850 Support Selection of 80mg BID as the RP2D



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EOS-850 Demonstrates Monotherapy Clinical Benefit in heavily pretreated patients across multiple indications.

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Best Response	QD doses (n=6), n (%)	BID doses (n=15), n (%)	Total (n=21), n (%)
Complete Response	0%	0%	0%
Partial Response	0%	2 (13%)	2 (9.5%)
Stable Disease	1 (16.5%)	4 (27%)	5 (24%)
Progressive Disease	4 (67%)	8 (53%)	12 (57%)
Not Assessed	1 (16.5%)	1 (7%)	2 (9.5%)



Partial response in a 67-year-old Male with Castrate-Resistant Prostate Cancer



- Documented Progression after all SOC hormonal therapy and 2 prior lines of chemotherapy
- Received EOS-850 80 mg BID
- Partial response at 16 weeks with 41% reduction in size of all target lesions per RECIST associated with decreased PSA.
- Therapy ongoing at 16 Weeks

Partial response in a 67-year-old Male with BRAF Wild-Type Cutaneous Melanoma



- 2 prior lines of immunotherapy, Pembrolizumab followed by Ipilimumab, with documented PD
- Received EOS-850 160 mg BID
- Grade 1 Pneumonitis at 8 weeks
- Partial response per RECIST at 16 weeks with 44% reduction in size of target lesion on the arm and reduced pain and lymphedema.
- Therapy ongoing at 19 Weeks

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CRC: Colorectal Cancer, CRPC: castrate-resistant prostate cancer, SCPC: prostate cancer with small cell histology, TNBC: triple-negative breast cancer, Endom: endometrial cancer, NSCLC: non-small cell lung cancer, TCC: transitional cell cancer of the bladder

EOS-850 Demonstrates Safe Profile with Good Target Coverage and Initial Clinical Benefit in Multiple Indications

80 mg BID selected as the Recommended Phase 2 Dose



Safe and tolerated at all dose levels with no DLT observed



Sustained inhibition of $A_{2A}R$ and prolonged pharmacodynamic (PD) activity with BID dosing



PK: Good dose-proportionality through 80 mg BID



Preliminary evidence of clinical benefit in 7 patients with 2 ongoing partial responses in a checkpoint inhibitor-refractory melanoma patient and a patient with metastatic prostate cancer Further evaluation is ongoing in selected indications:

- Monotherapy expansion
- Combination with pembrolizumab or chemotherapy

Presenter: Jean-Pascal Machiels (Coordinating Investigator)

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