

SCIENTIFIC CURRICULUM VITAE: Prof. Haybaeck Johannes, MD, PhD

Date of birth June 14th, 1977

Professional address

Department of Pathology, Neuropathology and Molecular Pathology

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MAIN RESEARCH INTERESTS

Tumour biology, molecular pathology and oncology, translation initiation factors, protein aggregation diseases, hepatopathology

POSITIONS

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| Since 2018 | Director and Professor of the Department of Pathology, Neuropathology and Molecular Pathology, Medical University of Innsbruck, Austria |
| 2016-2020 | Director of the Department of Pathology, Otto-von-Guericke University, Magdeburg, Germany |
| 2013-2016 | Coordinator in the field of cancer research, teaching, education and training at Graz Comprehensive Cancer Center (appointed as coordinator for the periods 2013-2016 and 2016-2019) |
| Since 2011 | Associate Professor of Pathology, Vice Chairman (2011-2014) and Chairman (from 2014 on) of the Department of Neuropathology, Institute of Pathology, Medical University of Graz |
| Since 2010 | Senior physician and medical specialist for Pathology and Neuropathology at the Department of Pathology, Medical University of Graz, Austria |
| Since 2010 | Research group leader, Translational Medical Research Group, Institute of Pathology, Medical University of Graz, Austria |
| 2008-2009 | Co-responsible person at the national reference center for prion diseases (NRPE), Switzerland, Institute for Neuropathologie and deputy security expert at the Institute for Neuropathology, Institute for Pathology, University |

Hospital Zurich, Switzerland.

EDUCATION / DIPLOMAS

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| Since 2014 | Sworn and judicially certified expert in Pathology and Neuropathology (recertified in 2019) |
| 2011 | Habilitation in Pathology, Medical University of Graz |
| 2005 – 2009 | PhD thesis in Molecular Biology, University of Zürich; Research Fellow, Specialist Registrar and Resident at the Institute of Neuropathology, University Hospital Zürich, Switzerland |
| 2009 | Award “Specialist in Neuropathology” |
| 2007 | Award “Specialist in General Pathology” |
| 2006 | Academic Health Care Manager (A.H.C.M.), University of Salzburg Business school |
| 2001 – 2005 | Rotation physician and Specialist Registrar in Pathology, Linz, Austria |
| 1995 – 2001 | M.D. studies at Leopold – Franzens – University of Innsbruck, Austria |

AWARDS

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| 2019 | Prof. honoris causa (h.c.) at South West Medical University, Luzhou, China |
| 2017 | Prize for “Inventor of the years 2016 and 2017”. Medical University of Graz, Austria |
| 2017 | Prize for the best poster in the field of Neuropathology. 29 th Congress of Pathology (ECP). Amsterdam, Netherlands |
| 2016 | Award for the best paper in Journal of Molecular Sciences (IJMS) |
| 2015 | 1 st Prize for the Best oral Presentation at the ECP, Belgrade, Serbia |
| 2012 | Rokitansky-Award, Austrian Society of Pathology, Vienna, Austria |
| 2012 | Otto-Kraupp-Award, Vienna, Austria |
| 2011 | Pfizer Research Award for Medicine, Zürich, Switzerland |
| 2008 | Poster prize for best poster in cancer field at the 7 th Day of Clinical Research Zürich, Switzerland |
| 2008 | Young Investigator Award, Charles Rodolphe Brupbacher Foundation for Cancer Research, University Hospital Zurich, Switzerland |
| 2008 | Poster prize for best poster in Neurosciences, 8th Day of Clinical Research Zürich, Switzerland |

MEMBERSHIPS IN 25 SCIENTIFIC SOCIETIES (5 examples given)

International Academy of Pathology (IAP)

American Society for Clinical Pathology (ASCP) (fellow)

American Association of Neuropathologists (AANP)

European Society of Pathology (ESP)

European Association for the Study of the Liver (EASL) (fellow)

REVIEWER FOR 24 SCIENTIFIC JOURNALS (5 examples given)

Gastroenterology

Hepatology

Cancer Letters

PLoS One

American Journal of Physiology-Gastrointestinal and Liver Physiology

ACADEMIC EDITOR FOR SCIENTIFIC JOURNALS

Pathology Research and Practice (PRP) (Editor in chief)

PLoS One

The Journal of Clinical and Translational Hepatology

International Journal of Molecular Sciences-IJMS

Der Pathologe

10 MOST IMPORTANT RESEARCH ARTICLES (last 5 years)

- Unterluggauer JJ, Prochazka K, Tomazic PV, Huber HJ, Seeboeck R, Fechter K, Steinbauer E, Gruber V, Feichtinger J, Pichler M, Weniger MA, Küppers R, Still H, Schicho R, Neumeister P, Beham-Schmid C, Deutsch AJA, **Haybaeck J**. Expression profile of translation initiation factor eIF2B5 in diffuse large B-cell lymphoma and its correlation to clinical outcome. *Blood Cancer J*. 2018; 8(9): 79.

- Gantenbein N, Bernhart E, Anders I, Golob-Schwarzl N, Krassnig S, Wodlej C, Brcic L, Lindenmann J, Fink-Neuboeck N, Gollowitzsch F, Stacher-Priehse E, Asslaber M, Gogg-Kamerer M, Rolff J, Hoffmann J, Silvestri A, Regenbrecht C, Reinhard C, Pehserl AM, Pichler M, Sokolova O, Naumann M, Mitterer V, Pertschy B, Bergler H, Popper H, Sattler W, **Haybaeck J**. Influence of eukaryotic translation initiation factor 6 on non-small cell lung cancer development and progression. *Eur J Cancer*. 2018 Sep;101:165-180.

- Klughammer J, Kiesel B, Roetzer T, Fortelny N, Nemc A, Nenning KH, Furtner J, Sheffield NC, Datlinger P, Peter N, Nowosielski M, Augustin M, Mischkulnig M, Ströbel T, Alpar D, Ergüner B,

Senekowitsch M, Moser P, Freyschlag CF, Kerschbaumer J, Thomé C, Grams AE, Stockhammer G, Kitzwoegerer M, Oberndorfer S, Marhold F, Weis S, Trenkler J, Buchroithner J, Pichler J, **Haybaeck J**, Krassnig S, Mahdy Ali K, von Campe G, Payer F, Sherif C, Preiser J, Hauser T, Winkler PA, Kleindienst W, Würtz F, Brandner-Kokalj T, Stultschnig M, Schweiger S, Dieckmann K, Preusser M, Langs G, Baumann B, Knosp E, Widhalm G, Marosi C, Hainfellner JA, Woehrer A, Bock C. The DNA methylation landscape of glioblastoma disease progression shows extensive heterogeneity in time and space. *Nat Med*. 2018.

- Joseph L Regan, Dirk Schumacher, Stephanie Staudte, Andreas Steffen, **Johannes Haybaeck**, Ulrich Keilholz, Caroline Schweiger, Nicole Golob-Schwarzl, Dominik Mumberg, David Henderson, Hans Lehrach, Christian RA Regenbrecht, Reinhold Schäfer, Martin Lange. Non-Canonical Hedgehog signaling is a positive regulator of the WNT pathway and is required for the survival of colon cancer stem cells. *Cell Reports*, 2017.

- Nicole Golob-Schwarzl, Caroline Schweiger, Carina Koller, Stefanie Krassnig, Margit Gogg-Kamerer, Nadine Gantenbein, Anna M. Toeglhofer, Christina Wodlej, Helmut Bergler, Brigitte Pertschy, Stefan Uranitsch, Magdalena Holter, Amin El-Heliebi, Julia Fuchs, Andreas Punschart, Philipp Stiegler, Marlen Keil, Jens Hoffmann, David Henderson, Hans Lehrach, Christoph Reinhard, Christian Regenbrecht, Rudolf Schicho, Peter Fickert, Sigurd Lax, **Johannes Haybaeck**. Separation of low and high grade colon and rectum carcinoma by eukaryotic translation initiation factors 1, 5 and 6. *Oncotarget*, 2017.

- Golob-Schwarzl N, Krassnig S, Toeglhofer AM, Park YN, Gogg-Kamerer M, Vierlinger K, Schröder F, Rhee H, Schicho R, Fickert P, **Haybaeck J**. New liver cancer biomarkers: PI3/AKT/mTOR pathway members and eukaryotic translation initiation factors. *Eur J Cancer*. 2017 Sep;83:56-70.

- Sonja M. Kessler, Eva Lederer, Stephan Laggai, Johannes Petzold, Caroline Schweiger, Nicole Golob-Schwarzl, Robert Reihls, Jens Hoffmann, Tobias Kiesslich, Martin Pichler, Kyung S. Kim, Hyungjin Rhee, Young N. Park, Sigurd Lax, Peter Obrist, Alexandra K. Kiemer, **Johannes Haybaeck**. Overexpression of the insulin-like growth factor 2 (IGF2) mRNA binding protein (IMP) 2 predicts poor outcome and high *in vivo* tumor growth rate in gallbladder carcinoma. *Oncotarget*, 2017.

- Schütte M, Risch T, Abdavi-Azar N, Boehnke K, Schumacher D, Keil M, Yildiriman R, Jandrasits C,

Borodina T, Amstislavskiy V, Worth CL, Schweiger C, Liebs S, Lange M, Warnatz HJ, Butcher LM, Barrett JE, Sultan M, Wierling C, Golob-Schwarzl N, Lax S, Uranitsch S, Becker M, Welte Y, Regan JL, Silvestrov M, Kehler I, Fusi A, Kessler T, Herwig R, Landegren U, Wienke D, Nilsson M, Velasco JA, Garin-Chesa P, Reinhard C, Beck S, Schäfer R, Regenbrecht CR, Henderson D, Lange B, **Haybaeck J**§, Keilholz U§, Hoffmann J§, Lehrach H§, Yaspo ML§. § Shared senior authorship. Molecular dissection of colorectal cancer in pre-clinical models identifies biomarkers predicting sensitivity to EGFR inhibitors. *Nat Commun*. 2017 Feb 10;8:14262.

- Kira Bettermann, Anita Kuldeep Mehta, Eva M. Hofer, Christina Wohlrab, Nicole Golob-Schwarzl, Vendula Svendova, Michael G. Schimek, Cornelia Stumptner, Andrea Thüringer, Michael R. Speicher, Carolin Lackner, Kurt Zatloukal, Helmut Denk and **Johannes Haybaeck**. Keratin 18-deficiency results in steatohepatitis and liver tumors in old mice: A model of steatohepatitis-associated liver carcinogenesis. *Oncotarget*. 2016 Nov 8;7(45):73309-73322.

- Björn Koos, Gaele Cane, Karin Grannas, Linda Arnörden, Liza Löf, Johan Heldin, Carl-Magnus Claesson, Axel Klaesson, Karoliina Hirvonen, Felipe de Oliveira, Vladimir Talibov, Nhan Pham, Manfred Auer, U Helena Danielson, **Johannes Haybaeck**, Masood Kamali-Moghaddam, and Ola Söderberg. Proximity Dependent Initiation of Hybridization Chain Reaction. *Nat Commun*. 2015 Jun 12;6:7294.